

NEW TITLES

CATALOG
2021



- ▶ Chemistry
- ▶ Computer Science and Information
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- ▶ Mathematics
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Data Science for Business and Decision Making: An Introductory Text for Students and Practitioners

Seyed Ali Fallahchay

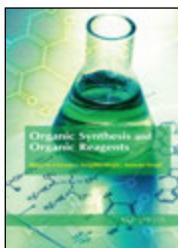
About the Author

Dr. Seyed Ali Fallahchay completed his PhD. in Business Management from De La Salle Araneta University, Philippines as well as his Masters in Business Administration in Philippines. He received his bachelor from Islamic Azad University, Iran and became licensed Engineer in 2010.

Dr. Seyed Ali Fallahchay currently a professor in Business Administration at Raffles and Design Institute at Jakarta Indonesia. He is also a professor at University of Mansford, California, US. Prior to his current position in academe, he also teaches in different institution in the Philippines. He also became a Senior Program head in Business Administration as well as Research Director. He also became a professor in graduate programs and teaches several business subjects. And he also develops several course materials for graduate programs such as: Production and Operation Management, Quantitative Methods in Business, Methods of Research and Managerial Economics. He was also engaged in the industry and became a successful entrepreneur. He also authored the following books: *The Economics of Innovation and Modern Scientific Communication*.

This book explores the principles underpinning data science. It considers the how and why of modern data science. The book goes further than existing books by applying data to decision making. Not only is the book useful for undergraduates, but it can also help business owners in improving their decision making. Using real life examples, this book explores the possibilities and limitations of an information-based decision making framework.

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Organic Synthesis and Organic Reagents

Ramesh Chandra, Snigdha Singh and Aarushi Singh

About the Authors

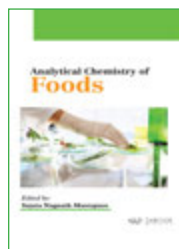
Prof. Ramesh Chandra is an outstanding scientist, revered teacher and an exceptionally successful administrator. He is currently heading Department of Chemistry, University of Delhi, where he is serving as Professor for the last more than 26 years and Founder Director of Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, since March 1991. He has been Vice-Chancellor, Bundelkhand University, Jhansi for six years (1999-2005); Member, Planning Commission, Government of U.P, India as well as the President of the Indian Chemical Society (2004-2006). Professor Chandra started his research career at the University of Delhi, thereafter he went to The New York Hospital-Cornell University Medical Center and the Rockefeller University, New York; State University of New York at Stony Brook, USA as Assistant Research Professor. He conducted advanced research at the Harvard University Medical School- Massachusetts General Hospital, jointly at MIT, Cambridge, USA. Over the last 38 years, Professor Chandra has contributed largely in the field of Chemical Sciences and particularly in New Drug Discovery and Development as well as Drug Metabolism. He has to his credit several patents, published more than 300 original Scientific Research Papers/ Review Articles in International journals of repute and six of his internationally acclaimed scientific Books. Prof. Chandra is the recipient of several professional national/ international recognitions; these include: Millennium Plaques of Honor (Life Time Achievement Award for Contribution in Science & Technology) by the Indian Science Congress Association (ISCA) for 2017-2018, Award of the Highest Honor of Soka University, Tokyo, Japan (2000); J William Fulbright Scholarship (1993); The Rockefeller Foundation USA-Biotechnology Career Award (1993); and several others.

Snigdha Singh was born in India in the year, 1992. She received her B.Sc. degree in 2013 from Hindu College, University of Delhi and M.Tech. degree (Chemical Synthesis and Process Technologies) in 2016 from University of Delhi, India. Then she joined Prof. Ramesh Chandra group at Department of Chemistry, University of Delhi for her doctoral studies. She is involved in miscellaneous projects for development of novel hydroxyethylamine molecules as potent multistage Antimalarial. Her sincere efforts and excellent performance has culminated her into a keen researcher. Currently, she is working at University of Siena under the supervision of Prof. Maurizio Taddei on Synthesis of novel 8-hydroxy-quinolines as Gli-1 Hedgehog Inhibitors. Her approach is well-organized and she is abreast with the current literature in her field of research. She has successfully optimized complex organic syntheses during her doctoral research. Apart from her own research work she has been helping in supervising a number of master and bachelor students. Her research efforts are directed towards the synthesis of bioactive heterocyclic molecules. She has already published 9 papers in international and national reputed journals and also presented her work in many conferences.

Ms Aarushi is currently pursuing her PhD degree course in organic chemistry from Department of Chemistry, University of Delhi, Delhi, India. She is working on the project entitled "Design, Synthesis and Biological Screening of Chiral Pyrazinoindoles as Potential Antibacterial Agent".

There are various kinds of chemicals and chemical processes that take place to result in some kind of desired product as a final one. The production industry uses a lot of such chemicals. The reagents are the chemicals that help in a chemical reaction. This book 'Organic Synthesis and Organic Reagents' talks about the synthesis of various chemicals and the use of reagents in those processes. The book informs the readers about all the related aspects and explains the various steps involved and the reason behind the use of the specific reagent.

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Analytical Chemistry of Foods

Sujata Nagnath Mustapure

About the Editor

Dr. Sujata Nagnath Mustapure is an associate professor at Department of Electrical & Other Energy sources, College of agricultural engineering & Technology, Vasantao Naik Marathwada Krishi Vidhyapeet, Parbhani. She obtained her B.Tech (agril. Engg.) in 2010 from Vasantao Naik Marathwada Krishi Vidhyapeet, Parbhani. Gold medal in M.Tech (Agril. Engg.), 2014 from Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola and Ph.D in Renewable energy engineering in 2019 from Maharana Pratap University of Agriculture and Technology, Udaipur. She has also worked as assistant professor in College of Agricultural, Naigoan, Vasantao Naik Marathwada Krishi Vidhyapeet, Parbhani. She has authored several national and international publications.

Food chemistry is considered as a core subject in the area of food Science and food technology. It is the study of food composition, treatment processes and food interactions (including non-biological and biological). Analytical Chemistry of foods is a science which deals with attaining, treating and sharing data about structure and composition of matter. Food quality and safety are also investigated using the analytical techniques. Food Analytical techniques mainly encompass the specific and fundamental characteristics of optimization, development and validation stages of food analysis. This book consists of eight chapters. The first three chapters of the book comprises introductory text which introduces the readers with fundamentals of food chemistry, food constituents and food analysis. While last 5 chapters of the book focus on the description of key food constituents such as water, proteins, enzymes, carbohydrates and lipids. Readers from a diverse background can use this book for getting information on food chemistry. Moreover, this book can be used as a ready reference for students, researchers, teachers and scientists from the background of food chemistry.

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Green Chemistry

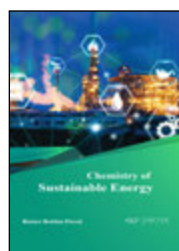
Rainer Roldan Fiscal

About the Author

Rainer Roldan Fiscal is an Associate Professor I in Laguna State Polytechnic University, Philippines. He finished Bachelor of Secondary Education major in General Science, Master of Arts in Teaching Science and Technology and Doctor of Philosophy in Education major in Educational Leadership and Management. He teaches Biological and Physical Science subjects and Advanced Methods of Research in the undergraduate and graduate programs. He presented his papers in national and international conferences in the Philippines and abroad like Malaysia, Thailand, and Vietnam. He published his papers in international journals and has citations.

This book essentially covers the fundamentals of green chemistry for sustainable development. There are eight chapters in the book which encompass different aspects of green chemistry. Different methods of green synthesis in everyday applications are discussed in the book. The readers can find an intersection of environmental and chemical knowledge for achieving sustainability on earth. In short, it identifies five interacting and overlapping environmental spheres. Environmental practitioners have recognized four of these spheres for a very long time which include atmosphere, biosphere, geosphere and hydrosphere. However, the 5th sphere is also critical and known as the anthroposphere, which comprises of every object manufactured by humans. For instance, airports, buildings, factories, agricultural lands, and a large range of systems and structures created by the activities of humans are also an essential part of Earth and must be treated according to the environmental considerations. In short, this book is a ready reference for readers from diverse backgrounds which include environmental engineer, chemists, chemical engineers and policy makers. This essentially book places the concepts of green chemistry within the frameworks of the sustainable modern society that needs to be established for survival of the mankind

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Chemistry of Sustainable Energy

Rainer Roldan Fiscal

About the Author

Rainer Roldan Fiscal is an Associate Professor I in Laguna State Polytechnic University, Philippines. He finished Bachelor of Secondary Education major in General Science, Master of Arts in Teaching Science and Technology and Doctor of Philosophy in Education major in Educational Leadership and Management. He teaches Biological and Physical Science subjects and Advanced Methods of Research in the undergraduate and graduate programs. He presented his papers in national and international conferences in the Philippines and abroad like Malaysia, Thailand, and Vietnam. He published his papers in international journals and has citations.

Chemistry of Sustainable Energy is a book that takes the readers through the various kinds of sustainable energies that are in option currently for the future use. The book takes the readers through the various processes involved in the production of these energies and the raw materials involved in it. It shows the readers the various ways in which the chemical processes were taking place in the energy production through those energy resources and proves how these energies are less harmful and more dependable for future and sustainable use.

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Thermochemistry

Rose Marie O. Mendoza

About the Author

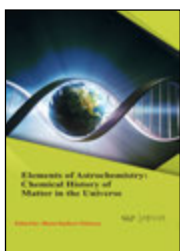
Dr. Rose obtained her PhD in Chemical Engineering from the University of the Philippines-Diliman in 2013, Her Masters in Chemical Engineering and BS Chemical Engineering degree from Adamson University. She is also a Professor in the Graduate School Department under the Master of Engineering Program at Adamson University since 2006, and is a Visiting Research Fellow at the Department of Environmental Engineering and Science, and the Department of Environmental Resource Management in Chia Nan University of Pharmacy and Science, Tainan Taiwan since 2010.

She obtained her Post Doctorate Degree in Green Power: Hydrogen Generation and Fuel Cell Development from the University of California Merced, USA (in collaboration with the Energy Storage and Conversion Materials Laboratory of the University of the Philippines, Diliman) and is presently also a collaborating researcher at the Kindai University, Nara Japan, focusing on applications of electric and electrostatic field.

Dr. Mendoza has several international and local researches covering Fuel cells and solid oxide electrolysis cells (SOECs), green energy and green technology, biomedical and natural products, fuels and fuel development, at water and wastewater treatment, recovery and remediation. She also published several international textbooks on water management, introductory chemical engineering and chemistry. Presently, Dr. Mendoza is the Chief Science Officer of Mark-Energy Revolution Corporation, Philippines.

The book 'Thermochemistry' takes the readers through the various aspects related to the areas in which thermodynamics finds its application in the field of chemistry. When the reactions take place, there is definite exchange of heat between the chemicals and the surroundings. Thermochemistry deals with the heat related aspects of the various chemical processes and finds the ways in which these processes can be applied for good and constructive use in the industry. This book makes the readers aware about the basic concepts of thermochemistry.

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Elements of Astrochemistry: Chemical History of Matter in the Universe

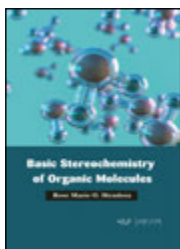
Maria Emilova Velinova

About the Editor

Maria Velinova is Ph.D. holder in Quantum chemistry at the University of Sofia since April 2012. Her major research experience is in the field of Computational Chemistry, especially in statistical mechanics methods applied to different sorts of biomolecules. Member of the Laboratory of Quantum and Computational Chemistry at the University of Sofia.

In the last half-century, financial derivatives have become progressively central in finance being actively traded on many exchanges throughout the world and entered into by financial institutions, fund managers, and corporate treasurers. Elements of Financial Mathematics: From Interest Theory to Options book presents those mathematical models that continue to reveal essentials for understanding the relationships among the actors in the financial world: annuities, bonds, portfolio theory, and derivatives.

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Basic Stereochemistry of Organic Molecules

Rose Marie O. Mendoza

About the Author

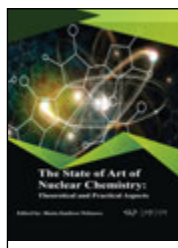
Dr. Rose obtained her PhD in Chemical Engineering from the University of the Philippines-Diliman in 2013, Her Masters in Chemical Engineering and BS Chemical Engineering degree from Adamson University. She is also a Professor in the Graduate School Department under the Master of Engineering Program at Adamson University since 2006, and is a Visiting Research Fellow at the Department of Environmental Engineering and Science, and the Department of Environmental Resource Management in Chia Nan University of Pharmacy and Science, Tainan Taiwan since 2010.

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Dr. Mendoza has several international and local researches covering Fuel cells and solid oxide electrolysis cells (SOECs), green energy and green technology, biomedical and natural products, fuels and fuel development, at water and wastewater treatment, recovery and remediation. She also published several international textbooks on water management, introductory chemical engineering and chemistry. Presently, Dr. Mendoza is the Chief Science Officer of Mark-Energy Revolution Corporation, Philippines.

Basic Stereochemistry of Organic Molecules is a book that brings to the attention of the readers – the various kinds of molecules in the organic chemistry and the reactions that take place in them, mainly highlighting the manner in which they occur and the structure in which they can be found to exist. The book aims to inform the people about the basic concepts of stereochemistry of the organic molecules, so that the various budding chemists and chemical scientists can empower themselves with the fundamental knowledge on the subject.

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The State of Art of Nuclear Chemistry: Theoretical and Practical Aspects

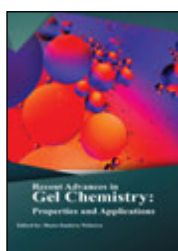
Maria Emilova Velinova

About the Editor

Maria Velinova is Ph.D. holder in Quantum chemistry at the University of Sofia since April 2012. Her major research experience is in the field of Computational Chemistry, especially in statistical mechanics methods applied to different sorts of biomolecules. Member of the Laboratory of Quantum and Computational Chemistry at the University of Sofia.

Nuclear chemistry concerns the study of the properties of the chemical elements at varying the structure of the atomic nucleus. It is a highly interdisciplinary subfield of chemistry because its applications range over physical science, engineering, biology, and medicine. This book discusses theoretical and practical recent aspects of the field, focusing on nuclear structure and properties of heaviest elements, on radiative decays and their products, on nuclear forces and reactions of fission, on radiation detectors and radiochemical techniques.

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Recent Advances in Gel Chemistry: Properties and Applications

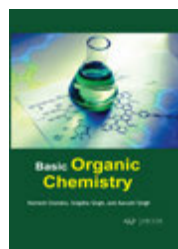
Maria Emilova Velinova

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In the last few years, an extended range of applications from medicine to material science has arisen a renewed interest in gels. These latter ones are dilute cross-linked systems, which manifests no flow when in the steady-state. This book reviews the recent advances in gel chemistry, considering their properties and applications. In particular, it treats supramolecular gels, metal-organic gels, hydrogels, dynamic covalent gels, polymer gels, and inorganic gels.

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Basic Organic Chemistry

Ramesh Chandra, Snigdha Singh and Aarushi Singh

About the Authors

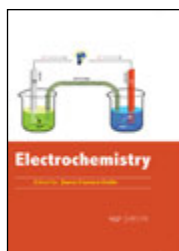
Prof. Ramesh Chandra is an outstanding scientist, revered teacher and an exceptionally successful administrator. He is currently heading Department of Chemistry, University of Delhi, where he is serving as Professor for the last more than 26 years and Founder Director of Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, since March 1991. He has been Vice-Chancellor, Bundelkhand University, Jhansi for six years (1999-2005); Member, Planning Commission, Government of U.P, India as well as the President of the Indian Chemical Society (2004-2006). Professor Chandra started his research career at the University of Delhi, thereafter he went to The New York Hospital-Cornell University Medical Center and the Rockefeller University, New York; State University of New York at Stony Brook, USA as Assistant Research Professor. He conducted advanced research at the Harvard University Medical School- Massachusetts General Hospital, jointly at MIT, Cambridge, USA. Over the last 38 years, Professor Chandra has contributed largely in the field of Chemical Sciences and particularly in New Drug Discovery and Development as well as Drug Metabolism. He has to his credit several patents, published more than 300 original Scientific Research Papers/ Review Articles in international journals of repute and six of his internationally acclaimed scientific Books. Prof. Chandra is the recipient of several professional national/international recognitions; these includes: Millennium Plaques of Honor (Life Time Achievement Award for Contribution in Science & Technology) by the Indian Science Congress Association (ISCA) for 2017-2018, Award of the Highest Honor of Soka University, Tokyo, Japan (2000); J William Fulbright Scholarship (1993); The Rockefeller Foundation USA-Biotechnology Career Award (1993); and several others.

Snigdha Singh completed her M.Tech. degree (Chemical Synthesis and Process Technologies) in 2016 from University of Delhi, India. After that she joined Prof. Ramesh Chandra group at Department of Chemistry, University of Delhi for her doctoral studies. She is involved in miscellaneous projects for development of novel hydroxyethylamine molecules as potent multistage Antimalarial. Her sincere efforts and excellent performance has culminated her into a keen researcher. Currently, she is working at University of Siena under the supervision of Prof. Maurizio Taddei on Synthesis of novel 8-hydroxyquinolines as GII-1 Hedgehog Inhibitors. She has successfully optimized complex organic syntheses during her doctoral research. Her research efforts are directed towards the synthesis of bioactive heterocyclic molecules. She has already published 9 papers in international and national reputed Journals and also presented her work in many conferences.

Ms. Aarushi Singh completed her Masters degree in chemistry (2013) from University of Delhi, Delhi, India. Thereafter, she joined as senior research fellow at Indian Agricultural Research Institute, Pusa, Delhi, India. Then, she joined Lingaya's University, Faridabad, India as Assistant Professor in Chemistry.

Basic Organic Chemistry discusses the basic concept of chemistry as well as organic chemistry. It includes detailed description of organic molecules, functional groups and the nomenclature of the organic molecules. This book also discusses the notion of acids and bases and stereochemistry of the organic molecules along with the description of amino acids, proteins, carbohydrates, alcohol and ethers. It provides the reader with the insights of basic organic chemistry so as to understand the basic organic reactions and the application of spectroscopy to study organic molecules.

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Electrochemistry

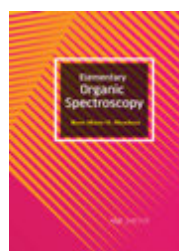
Jurex Cuenca Gallo

About the Editor

Dr. Jurex Gallo was conferred with his PhD degree in Chemical Engineering from De La Salle University – Manila in 2014. His expertise revolved in the fields of Material Science and Environmental Engineering focused on industrial and hazardous waste treatment and management. Presently, Dr. Gallo is affiliated as Senior Science Research Specialist of the Department of Science and Technology e-Asia Joint Research Program in the Philippines on developing functional carbon-based nanomaterials such as carbon nanotubes and graphene for energy and environmental applications.

Electrochemistry takes into account the fundamental concept of electrochemistry and the transport processes. It provides the reader with the insights of electrochemistry so as to better understand the field of bio-electrochemistry and equilibria in the transfer of charges. This book also discusses about equilibria in charge transfer, electrical double layer, heterogeneous electrochemical systems and bio-electrochemistry.

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Elementary Organic Spectroscopy

Rose Marie O. Mendoza

About the Author

Dr. Rose obtained her PhD in Chemical Engineering from the University of the Philippines-Diliman in 2013. She is also a Professor in the Graduate School Department under the Master of Engineering Program at Adamson University since 2006, and is a Visiting Research Fellow at the Department of Environmental Engineering and Science, and the Department of Environmental Resource Management in Chia Nan University of Pharmacy and Science, Tainan Taiwan since 2010. She is now taking up her Post Doctorate Degree in Green Power: Hydrogen Generation and Fuel Cell

Development at the University of Philippines-Diliman under the Department of Mining, Metallurgy and Materials Engineering and the University of California, Merced, USA under the Department of Mechanical Engineering.

Elementary Organic Spectroscopy deals with the basic concept of spectroscopy techniques that can be used to analyze certain physical characteristics of the organic compounds. It provides the reader with significant insights of various spectroscopy techniques to understand the utilization of these techniques in the analysis of certain characteristics of organic compounds. This book also discusses about ultraviolet-visible spectroscopy, basic concept of raman spectroscopy, nuclear magnetic resonance spectroscopy (nmr), mass and infrared spectrometry and fourier transform infrared spectroscopy.

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Environmental Geochemistry

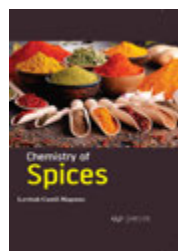
Pratibha Singh

About the Editor

Dr. Pratibha Singh received Ph.D degree in Chemistry, and has research experience in Natural Dyes Extraction. She was Project associates in Department of chemical engineering IT BHU, India, working on Water Sample Testing and Effluent Treatment. She also has work experience as Scientific Officer in the field of Surface Chemistry. Some of her research work / papers were published in following journal:- · Indian Journal of Fibre & Textile Research 37 (3)(2012) 83-86:- Topic - "Extraction of natural dye from Dahlia variabilis using ultrasound". · Indian Journal of Fibre & Textile Research 35 (9)(2010) 272-276:- Topic - "Evaluation of various techniques for extraction of natural colorants from pomegranate rind- Ultrasound and enzyme assisted extraction".

Environmental Geochemistry introduces the readers to the concept of environmental geochemistry and throws light on the medical geochemistry of the tropical environments. It further discusses about the sustainable waste management and the various environmental impacts of the metallurgical slags and also explains the environmental geochemistry of radioactive contamination. Also discussed in the book is the toxicological geochemistry of the materials on earth, the process of geochemical fingerprinting and the ways in which the smog is formed and how it impacts the surroundings. The book also provides information on the geochemistry of petroleum in brief.

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Chemistry of Spices

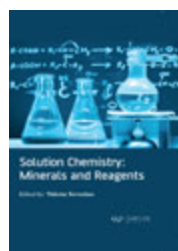
Levitah Castil Mapatac

About the Author

Levitah C. Mapatac is an Associate Professor, researcher, writer and a PhD holder from the University in Science and Technology of Southern Philippines. Her interest varies from different chemistry concepts and applications and currently doing research in traditional medicines, water waste pollution and environmental chemistry in the aspect of contamination pathways, profiling and rehabilitation of mining waste.

Chemistry of Spices takes into account different kinds of spices and their chemistry. It includes almost all of the spices and their chemistry, present around the world. The chemical composition of the spices has been described. This book also discusses about processing of spices and process required for quality check, spices and its medicinal properties, chemical hazards related to spices, chemical and medicinal impacts of the spices and innovations in the spices industry. It also provides the reader with insights into the spices and their composition so as to analyze their importance in different fields such as medicine along with certain chemical hazards of spices.

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Solution Chemistry: Minerals and Reagents

Valeria Severino

About the Editor

Valeria Severino obtained her PhD in Biological Processes and Biomolecules from the Second University of Naples in 2009. Her scientific interests concern the structural and functional characterization of proteins and peptides by using biochemical approaches. Fields of expertise comprises food chemistry, cellular biology, natural products and related applications. She published more than 40 papers on international peer-reviewed journals.

Solution Chemistry Minerals and Reagents discusses and updates the readers about the various concepts related to the chemistry related to the solutions such as explaining the solubility products, role of surfactants, chemistry of aqueous solutions, recent innovations in solvents for dissolution and the description of 1,3,5-trichlorobenzene and so forth. This book also discusses about the concepts related to solubility, efficient visible light photocatalysis of benzene, toluene, ethylbenzene and xylene (btx) in aqueous solutions, reverse floatation, the way the solubility of cyclodextrins can be predicted, bismuth telluride solubility limit and dopant effects and decomposition and mineralization of dimethyl phthalate.

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Chromatography in Food Science and Technology

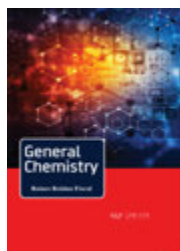
Valeria Severino

About the Editor

Valeria Severino obtained her PhD in Biological Processes and Biomolecules from the Second University of Naples in 2009. Her scientific interests concern the structural and functional characterization of proteins and peptides by using biochemical approaches. Fields of expertise comprises food chemistry, cellular biology, natural products and related applications. She published more than 40 papers on international peer-reviewed journals.

Chromatography in Food Science and Technology discusses the emerging point-of-care technologies for the analysis of food safety. This book gives insight into basic concepts of chromatography techniques related to food science and technology so as to understand the major role and application of chromatographic techniques for the analysis of authenticity and integrity of food. This book also discusses about analysis of enantiomers in products of food interest, advanced lc–ms-based methods to study the co-occurrence and metabolization of multiple mycotoxins in cereals and cereal-based food, molecularly imprinted polymers as extracting media for the chromatographic determination of antibiotics in milk, inhibitory effects of green tea polyphenols on microbial metabolism of aromatic amino acids in humans revealed by metabolomic analysis and gradual optimization of headspace solid-phase microextraction conditions of volatiles in pepper chicken soup combined with gas chromatography-mass spectrometry and principal component analysis.

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General Chemistry

Rainer Roldan Fiscal

About the Author

Rainer Roldan Fiscal is an Associate Professor in Laguna State Polytechnic University, Philippines and Research Coordinator of the College of Teacher Education. He finished Bachelor of Secondary Education major in General Science, Master of Arts in Teaching major in Science and Technology and Doctor of Philosophy in Education major in Educational Leadership and Management. He teaches Biological and Physical Science subjects, Professional Education subjects and Methods of Research in the undergraduate and graduate programs. He presented his papers in national and international conferences in the Philippines and abroad. He published his papers in international journals.

This book explains the major concepts associated with general chemistry. It gives an introduction of chemistry covering its importance and applications in daily lives. The book also describes periodic table and atomic properties. It then covers solutions and properties of solutions. The book then describes acids, bases and salts including its properties and its reactions. The book then covers the states of matter. It then describes in detail the concept of chemical bonding. The book then talks about the various concepts associated with electrochemistry. Finally, it describes the units of measurements used in chemistry.

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Organic Reactions and their Nomenclature

Ramesh Chandra, Snigdha Singh and Aarushi Singh

About the Authors

Prof. Ramesh Chandra is an outstanding scientist, revered teacher and an exceptionally successful administrator. He is currently heading Department of Chemistry, University of Delhi, where he is serving as Professor for the last more than 26 years and Founder Director of Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, since March 1991. He has been Vice-Chancellor, Bundelkhand University, Jhansi for six years (1999-2005); Member, Planning Commission, Government of U.P, India as well as the President of the Indian Chemical Society (2004-2006). Professor

Chandra started his research career at the University of Delhi, thereafter he went to The New York Hospital-Cornell University Medical Center and the Rockefeller University, New York; State University of New York at Stony Brook, USA as Assistant Research Professor. He conducted advanced research at the Harvard University Medical School- Massachusetts General Hospital, jointly at MIT, Cambridge, USA. Over the last 38 years, Professor Chandra has contributed largely in the field of Chemical Sciences and particularly in New Drug Discovery and Development as well as Drug Metabolism. He has to his credit several patents, published more than 300 original Scientific Research Papers/ Review Articles in International journals of repute and six of his internationally acclaimed scientific Books. Prof. Chandra is the recipient of several professional national/ international recognitions; these includes: Millennium Plaques of Honor (Life Time Achievement Award for Contribution in Science & Technology) by the Indian Science Congress Association (ISCA) for 2017-2018, Award of the Highest Honor of Soka University, Tokyo, Japan (2000); J William Fulbright Scholarship (1993); The Rockefeller Foundation USA-Biotechnology Career Award (1993); and several others.

Snigdha Singh completed her M.Tech. degree (Chemical Synthesis and Process Technologies) in 2016 from University of Delhi, India. After that she joined Prof. Ramesh Chandra group at Department of Chemistry, University of Delhi for her doctoral studies. She is involved in miscellaneous projects for development of novel hydroxyethylamine molecules as potent multistage Antimalarial. Her sincere efforts and excellent performance has culminated her into a keen researcher. Currently, she is working at University of Siena under the supervision of Prof. Maurizio Taddei on Synthesis of novel 8-hydroxyquinolines as Gli-1 Hedgehog Inhibitors. She has successfully optimized complex organic syntheses during her doctoral research. Her research efforts are directed towards the synthesis of bioactive heterocyclic molecules. She has already published 9 papers in international and national reputed Journals and also presented her work in many conferences.

Ms. Aarushi Singh completed her Masters degree in chemistry (2013) from University of Delhi, Delhi, India. Thereafter, she joined as senior research fellow at Indian Agricultural Research Institute, Pusa, Delhi, India. Then, she joined Lingaya's University, Faridabad, India as Assistant Professor in Chemistry.

Organic Reactions and their Nomenclature introduces organic compounds and their nomenclature explaining in detail the organic structures, bonding and classification of organic compounds. The book discusses in detail the process of catalytic alcohol oxidation and explains covalent organic frameworks. It further provides highlights on recent advances in the synthesis of carboxylic acid esters, with an overview of Clemmensen Reduction Mechanism. The book concludes with a detailed explanation of carbonyl group reactions.

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Chromatography: An Invaluable Tool in Research and the Industry

Shiv Sanjeevi and Prerna Pandey

About the Editors

Shiv Sanjeevi Sripathi secured second rank in Mumbai University and first rank in his college at his undergrad level and in his college during his Masters and has worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai, following which he was a Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore from August 2009 to November 2011.

The field of work involved cloning of cell wall genes and transcription factors in *E. coli* & *M. smegmatis*. This was followed by a stint as a Research and Development Executive at Transasia Biomedicals, Mumbai where he worked on patent writing and Immunoassays from 2011 till 2013. In 2013, he entered the teaching field where he has been tutoring biology and chemistry to the students of 11th and 12th grades along with English grammar and communication skills to people of all age groups.

Dr Prerna Pandey, a biotechnologist with several years of wet lab research experience, has worked as a senior research fellow at International Center for Genetic Engineering and Biotechnology, New Delhi. Her field of research in PhD included isolation and molecular characterization of Geminiviruses, genome sequencing, gene annotation, as well as gene silencing using the RNA interference technology. She has published papers in peer-reviewed journals in the field and has submitted a number of annotated Geminiviral genome sequences in the GenBank, including two novel ones. Prerna has also completed her editing and proof-reading courses from SfEP, UK and now works as a freelance scientific editor, writer and a subject matter expert. She has edited and co-authored several books on a range of topics in Life-Sciences. When Prerna is not busy with her assignments, she loves visiting historical places.

Chromatography: An Invaluable Tool in research and the industry deals with the technique of chromatography and its major applications in the field of research. It consists of recycle HPLC technique used for the purification of natural products and basic principles involved in MLC. It provides the reader with the fundamental concept of chromatography so as to understand its application in the extraction of natural products, analyze posttranslational modifications and compare an electronic nose based on ultrafast gas chromatography. This book also discusses about reminder of systems of production and chromatography-based recovery of recombinant protein biopharmaceuticals, strong cation exchange chromatography in analysis of posttranslational modifications, chromatographic removal of endotoxins, dissolution testing of single- and dual-component thyroid hormone supplements, recombinant passenger proteins can be conveniently purified by one-step affinity chromatography and surfactant modified/mediated thin-layer chromatographic systems for the analysis of amino acids.

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Principles of Big Data

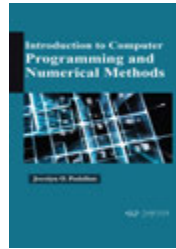
Alvin Albuero De Luna

About the Author

Alvin Albuero De Luna is an instructor at a Premier University in the Province of Laguna, Philippines - the Laguna State Polytechnic University (LSPU). He finished his Bachelor's degree in Information Technology at STI College and took his Master of Science in Information Technology at LSPU. He is handling Programming Languages, Cyber Security, Discrete Mathematics, CAD, and other Computer related courses under the College of Computer Studies

Data has assumed prime importance in the current world and it is evident in the manner in which it is an aspect that is kept in mind while making some key decisions in political as well as business domains. Big data refers to the large volumes of data that is synthesized and analyzed to reach at the decision-making conclusions. The book 'Principles of Big Data' takes the readers through the various aspects of big data and informs about the various important principles that it works on. Through the book the readers get a deeper insight on the big data and its application in the analytical world.

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Introduction to Computer Programming and Numerical Methods

Jocelyn O. Padallan

About the Author

Jocelyn O. Padallan is Assistant Professor II from Laguna State Polytechnic University, Philippines and she is currently pursuing her Master of Science in Information Technology at Laguna State Polytechnic University San Pablo Campus and has Master of Arts in Education from the same University. She has passion for teaching and has been Instructor and Program Coordinator at Laguna State Polytechnic University

In the current times, computing is a very important skill to have. It is even better if you know the basics on which the computing and programming develops itself and the numerical approach that they involve. This is a field that is a subject of attention and study for several programming enthusiasts. This book, Introduction to Computer Programming and Numerical Methods, takes the readers through various such techniques that are used for programming and the numerical methods involved in them, to educate them about the fundamentals and starting point of computer programming.

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Artificial Intelligence and its Applications

Ivan Stanimirovi and Olivera M. Stanimirovi

About the Author

Ivan Stanimirovi gained his PhD from University of Ni, Serbia in 2013. His work spans from multi-objective optimization methods to applications of generalized matrix inverses in areas such as image processing and computer graphics and visualisations. He is currently working as an Assistant professor at Faculty of Sciences and Mathematics at University of Ni on computing generalized matrix inverses and its applications.

Olivera M. Stanimirovi is currently with the Faculty of Sciences and Mathematics at University of Nis with a degree in mathematics and computer science. After her master's studies, she enrolled in doctoral studies at the Department of Mathematics in Nis as well. She participated in several international congresses, where she published her papers in optimization and applied mathematics.

The advancement of technology, its uses and how they influence on people have generated a great impact on today's society. This book intends to expand our knowledge on the subject and better understand the current state of the art in this field. It is something we have to be aware of, since it is increasingly present in our lives. We must understand the new technologies in order to use them correctly and optimize them in the future. The problem that certain jobs can be replaced by machines, generates a change in the way of human thinking and doing, which must adopt these technologies and trained to use them. In this book, the changes to the world caused by the use of Artificial Intelligence and Machine Learning are investigated. It investigates the impact of the use of artificial intelligence in everyday life, emphasizing technologies such as Artificial Intelligence, Machine Learning and Deep Learning. In recent years, advances in these areas have influenced considerably the technology as we know it, are opening doors to new possibilities that once seemed unimaginable.

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Distributed Database Architecture

Jocelyn O. Padallan

About the Author

Jocelyn O. Padallan is Assistant Professor II from Laguna State Polytechnic University, Philippines and she is currently pursuing her Master of Science in Information Technology at Laguna State Polytechnic University San Pablo Campus and has Master of Arts in Education from the same University. She has passion for teaching and has been Instructor and Program Coordinator at Laguna State Polytechnic University

The book 'Distributed Database Architecture' discusses various topics related to the database architecture. The technology of database management is a very commonly used one nowadays and is the basis of many tech-businesses. The book takes the readers through the various aspects of the distributed database architecture, the way in which it is designed and the manner in which it is brought to use. The book can be used a good source of information by the various IT professionals or aspiring the data analysts.

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New Age Analytics

Alvin Albuero De Luna

About the Author

Alvin Albuero De Luna is an instructor at a Premier University in the Province of Laguna, Philippines - the Laguna State Polytechnic University (LSPU). He finished his Bachelor's degree in Information Technology at STI College and took his Master of Science in Information Technology at LSPU. He is handling Programming Languages, Cyber Security, Discrete Mathematics, CAD, and other Computer related courses under the College of Computer Studies

Analytics has grabbed a lot of attention as of late in the fields of marketing, business intelligence, projections, and strategizing things. The role of analytics has been realized by many firms across the world and hence, it is now one of the most demanded skills in the business domains. As the digital age and the demand for data is rising, the role of analytics is assuming even more importance. The manner in which it returns the results and outcomes of the various analyses performed to aid the growth of businesses, has been acknowledged across domains. 'New Age Analytics' makes the readers aware about the various ways in which the analytics work in the present age and time.

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Analytic Methods of Systems and Software Testing

Neha Kaul

About the Author

Neha Kaul is an experienced software consultant and technical author currently residing in Paris, France. She is the author of four technical books: Object Oriented Programming with Java, Logging Frameworks in Java, Applications of Data Mining in Engineering, Management and Medicine and Software Security: Building Secure Software Applications. She received her double Master's Degree in Computer and Communication Networks and Information Technology from Telecom SudParis and University Paris-Saclay in 2016. She is a recipient of the prestigious Telecom Scholarship for Excellence provided by Fondation Telecom, France. She received the Bachelor of Engineering degree in Computer Engineering from the University of Pune, India in 2011. From 2011 to 2014, she was employed as a Software Engineer with Geometric Ltd, Pune, India. Her major avenues of research include Advanced Java/J2EE frameworks, Automation Testing, Software Quality, Software Security, Logging Frameworks, Project Management and Leadership.

As software has become ubiquitous to our way of life in the 21st century, the role of testing has evolved considerably. Software and Systems Testing Methods provides an educational and practical way of teaching software testing. Anybody who is looking to understand, research and implement software testing can benefit from this book. It covers several aspects of testing starting from the history of testing all the way to practical implementations of testing frameworks. The book delves into the importance of testing by means of real-world case studies, discusses methods of software testing, best practices and provides a comprehensive set of practical yet simple examples of software testing frameworks.

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Introduction to Computer Science and Technology

Adele Kuzmiakova

About the Editor

Adele Kuzmiakova is a computational engineer focusing on solving problems in machine learning, deep learning, and computer vision. Adele attended Cornell University in New York, United States for her undergraduate studies. She studied engineering with a focus on applied math. While at Cornell, she developed close relationships with professors, which enabled her to get involved in academic research to get hands-on experience with solving computational problems. She was also selected to be Accel

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This book outlines emerging trends and practices in computer science and technology. It mentions that although computer-based technology has penetrated many aspects of everyday life and industry, little is known about how to use it to improve daily life. The book discusses some of the benefits of computer science in society, plus the challenges that computer users often encounter. Readers are also engaged with modern usages of computers such as web conferencing software, social networking sites, blogs, and wikis. The book mentions the increasing integration of these technologies into activities such as work, education and entertainment. People can learn and adopt computer science and technology according to their own level of understanding and unique applications.

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Computer Science and Technology in Schools

Adele Kuzmiakova

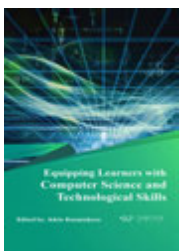
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The book "Computer Science and Technology in Schools" discusses important 21st century skills that students must possess. It mentions that computer science (CS) is the foundation of most innovations today, from biotechnology to earth sciences to national security, so it is necessary to include it in schools so that students can acquire relevant skills for the future. The book presents computer science as more than merely using technology. The subject of computer science is very broad and teaches learners design, problem solving and logical reasoning—all of which are valuable outside the computer science classroom. Teachers can use the skills introduced in this book to enable students to design technical solutions to problems in science, mathematics, social studies, art, and humanities.

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Equipping Learners with Computer Science and Technological Skills

Adele Kuzmiakova

About the Editor

Adele Kuzmiakova is a computational engineer focusing on solving problems in machine learning, deep learning, and computer vision. Adele attended Cornell University in New York, United States for her undergraduate studies. She studied engineering with a focus on applied math. While at Cornell, she developed close relationships with professors, which enabled her to get involved in academic research to get hands-on experience with solving computational problems. She was also selected to be Accel Round-

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This book mentions that more work must be done to increase the ratio of students studying Science, Technology, Engineering and Mathematics (STEM) and equip them with skills that will be necessary for the future. The book predicts the growth of many technical fields, including cloud technology, 3D printing, the Internet of Things (IoT) and mobile fields, but highlights that these fields are not currently included in most school curricula. It also mentions computer science teaching in developing countries, which lacks consistent policies, leadership and innovation capabilities within institutions. In order to train people who are capable of contributing to society and economy at large, the education sector must be reimagined.

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Applications of Computer Science and Technology in Different Fields

Adele Kuzmiakova

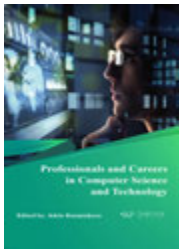
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This book discusses common myths and misunderstandings about computer science. It is committed to solving these problems and trying to eliminate misconceptions in order to provide potential computer science pupils and the overall public a more realistic outlook of the field. It provides a perspective of different fields where computer science is applicable, such as the medical field, business, linguistics, robotics, agriculture, sports, and the environment. The book mentions that computer science (CS) is at the crossroads of most modern occupations. It discusses the development of human-computer interaction that has been going on for years, reshaping the way people do things today.

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Professionals and Careers in Computer Science and Technology

Adele Kuzmiakova

About the Editor

Adele Kuzmiakova is a computational engineer focusing on solving problems in machine learning, deep learning, and computer vision. Adele attended Cornell University in New York, United States for her undergraduate studies. She studied engineering with a focus on applied math. While at Cornell, she developed close relationships with professors, which enabled her to get involved in academic research to get hands-on experience with solving computational problems. She was also selected to be Accel Round-

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The book 'Professionals And Careers In Computer Science And Technology' seeks to answer the question of what can you do with a computer science degree? The scope of computer science continues to expand, which means you can choose from a variety of very specialized fields. Computer technology is an integral part of modern life, so you are likely to find a high demand for computer science skills in many different sectors. These include financial organizations, management consulting companies, software companies, communications corporations, data warehouses, multinational companies, government agencies, colleges and hospitals. In addition to computer science, the book teaches students technical and non-technical skills that are highly appreciated by employers, from team leadership to programming.

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Computer Science and Multimedia Technologies

Kunwar Singh Vaisla

About the Author

Dr. Kunwar Singh Vaisla is Ph. D. in Computer Science from Kumaun University, Nainital, MCA from University of Rajasthan, Jaipur, India and B. Sc. from Raj Rishi College, Alwar, Rajasthan, India. He is currently working as Professor at Department of Computer Science and Engineering at BT Kumaon Institute of Technology, India. He is editorial board member of many reputed international journals such as IJGCA, ITIST, IJIFR, CAII, ICACCE, IJWSC.

This book describes multimedia technology as an integral part of the modern computing environment. The book explains some basic computer science and multimedia technologies such as; digital image, video and audio content, including different compression technologies and standards, as well as the dynamics of delivering multimedia content across the Internet. The chapters are suitable for students who want to expand their understanding of multimedia systems, expert developers who want to develop a technical basis for applications with varied multimedia components, and network specialists who want to manage multimedia output services. It also discusses emerging trends in multimedia that have been brought about by increased internet usage.

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Computational Science

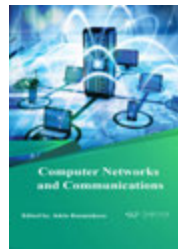
Kunwar Singh Vaisla

About the Author

Dr. Kunwar Singh Vaisla is Ph. D. in Computer Science from Kumaun University, Nainital, MCA from University of Rajasthan, Jaipur, India and B. Sc. from Raj Rishi College, Alwar, Rajasthan, India. He is currently working as Professor at Department of Computer Science and Engineering at BT Kumaon Institute of Technology, India. He is editorial board member of many reputed international journals such as IJGCA, ITIST, IJIFR, CAII, ICACCE, IJWSC.

The book describes computational science as a field related to the design, execution and use of arithmetical models to evaluate and solve scientific complications. Generally, the word refers to the application of computers to simulate or numerically analyze scientific systems or processes. This book claims that because of the complexity of mathematics, massive amounts of calculations involved, or both of them, computational science enables people to perform tasks that were difficult to do before. The author claims that although computational models can't replace the laboratory, they have undoubtedly become a complex part of the entire search for scientific understanding. Computational science also allows researchers to build models for making predictions of what might happen in real life, such as weather pattern predictions.

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Computer Networks and Communications

Adele Kuzmiakova

About the Editor

Adele Kuzmiakova is a computational engineer focusing on solving problems in machine learning, deep learning, and computer vision. Adele attended Cornell University in New York, United States for her undergraduate studies. She studied engineering with a focus on applied math. While at Cornell, she developed close relationships with professors, which enabled her to get involved in academic research to get hands-on experience with solving computational problems. She was also selected to be Accel Round-

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This book describes computer networks from the perspective of administrators, pointing out that the network is fundamentally a private network consisting of a single independent system that cannot be accessed away from its physical and logical domains. The network may be a public network, it can be all-access, or a private network that only a few individuals can access. The book introduces computer networks and data communication, which is a system composed of interconnected computers and computer peripherals (such as printers and multimedia devices). This interconnection between computers facilitates information distribution between them. Wired and wireless multimedia communications are deliberated in the book. Similarly, there are topics about the physical and logical features of a network.

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Computer Science and Web Technologies

Adele Kuzmiakova

About the Editor

Adele Kuzmiakova is a computational engineer focusing on solving problems in machine learning, deep learning, and computer vision. Adele attended Cornell University in New York, United States for her undergraduate studies. She studied engineering with a focus on applied math. While at Cornell, she developed close relationships with professors, which enabled her to get involved in academic research to get hands-on experience with solving computational problems. She was also selected to be Accel Round-

table on Entrepreneurship Education (REE) Fellow at Stanford University and spent 3 months working on entrepreneurship projects to get a taste of entrepreneurship and high-growth ventures in engineering and life sciences. The program culminated in giving a presentation on the startup technology and was judged by Stanford faculty and entrepreneurship experts in Silicon Valley. After graduating from Cornell, Adele worked as a data scientist at Swiss Federal Institute of Technology in Lausanne, Switzerland where she focused on developing algorithms and graphical models to analyze chemical pathways in the atmosphere. Adele also pursued graduate studies at Stanford University in the United States where she entered as a recipient of American Association of University Women International Fellowship. The Fellowship enabled her to focus on tackling important research problems in machine learning and computer vision. Some research problems she worked on at Stanford include detecting air pollution from outdoor public webcam images. Specifically, she modified and set up a variety of pre-trained architectures, such as DehazeNet, VGG, and ResNet, on public webcam images to evaluate their ability to predict air quality based on the degree of haze on pictures. Other deep learning problems Adele worked on include investigating the promise of second-order optimizers in deep learning and using neural networks to predict sequences of data in energy consumption. Adele also places an emphasis on continual education and served as a Student Leader in PyTorch scholarship challenge organized by Udacity. Her roles as the Student Leader were helping students debug their code to train neural networks with PyTorch and providing mentorship on technical and career aspects. Her hobbies include skiing, playing tennis, cooking, and meeting new people.

The book "Computer Science and Network Technology" gives an in-depth discussion of the key systems in the development of distributed software and service-oriented systems through the Internet, and gives readers some critical thinking and technical skills about development and performance assessment of such systems. This book defines the Internet and World Wide Web (WWW) as the core technologies of our society, which have changed the design and configuration of software systems. It also touches on emerging network technologies, such as software as a service (SaaS) and cloud-based paradigms, which have enabled new ways to provide and utilize computing and IT resources across the Internet.

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Security of Cloud-based systems

Jovan Pehcevski

About the Editor

Jovan obtained his PhD in Computer Science from RMIT University in Melbourne, Australia in 2007. His research interests include big data, business intelligence and predictive analytics, data and information science, information retrieval, XML, web services and service-oriented architectures, and relational and NoSQL database systems. He has published over 30 journal and conference papers and he also serves as a journal and conference reviewer. He is currently working as a Dean and Associate Professor at European University in Skopje, Macedonia.

This edition covers different topics from security of cloud-based systems, including: threats detection in cloud environments, frameworks for cloud security, enhancing the security in the cloud systems, and the case studies. Section 1 focuses on threats detection in cloud environments, describing analysis of security threats to virtual machines monitor in cloud computing environment; a review of anomaly detection systems in cloud networks and survey of cloud security measures in cloud storage applications; a survey of cloud computing detection techniques against DDoS attacks; and generation of labelled datasets to quantify the impact of security threats to cloud data centers. Section 2 focuses on frameworks for cloud security, describing a comprehensive security framework of cloud data storage based on multi agent system architecture; control framework for secure cloud computing; security model for preserving privacy over encrypted cloud computing; trusted heartbeat framework for cloud computing; and education technology cloud platform framework establishment and security. Section 3 focuses on enhancing the security in the cloud systems, describing design and development of a novel symmetric algorithm for enhancing data security in cloud computing; enhancing mobile cloud computing security using steganography; data security of mobile cloud computing on cloud server; new proposed robust, scalable and secure network cloud computing storage architecture; and survey on public key cryptography scheme for securing data in cloud computing. Section 4 focuses on case studies, describing cloud security: services, risks, and a case study on amazon cloud services; quick survey on cloud computing and associated security, mobility and IoT issues; block level data integrity assurance using matrix dialing method towards high performance data security on cloud storage; current status of the use of cloud computing in SME-s in the city of Latacunga, Ecuador.

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Natural Language Processing

Zoran Gacovski

About the Editor

Dr. Zoran Gacovski has earned his PhD degree at Faculty of Electrical engineering, Skopje. His research interests include Intelligent systems and Software engineering, fuzzy systems, graphical models (Petri, Neural and Bayesian networks), and IT security. He has published over 50 journal and conference papers, and he has been reviewer of renowned Journals. Currently, he is a professor in Computer Engineering at European University, Skopje, Macedonia.

This edition covers different topics from natural language processing, including natural language processing in IT / web systems, semantics in natural language processing, mathematical algorithms in natural language processing, and natural language in mobile systems. Section 1 focuses on natural language processing in IT and web systems, describing semantic analysis of natural language queries for an object oriented database; communication mediated through natural language generation in big data environments; web semantic and ontology; and understanding creative language in tweets. Section 2 focuses on semantics in natural language processing, describing resolving topic-focus ambiguities in natural language; semantic interoperability in e-health for improved healthcare; computational context modeling framework - an ontological approach to develop context-aware web applications; and three types of episodic associations for the semantic/syntactic/episodic model of language prospective in applications to the statistical translation. Section 3 focuses on mathematical algorithms in natural language processing, describing bridging between natural language and mathematical language in solving problems in mathematics; Spanish language grammatical context—acknowledging specific language characteristics; shallow parsing approach to natural language queries of a database; comparative study to understanding about poetics based on natural language processing; computers and language learning. Section 4 focuses on natural language in mobile systems, describing automatic approach of sentiment lexicon generation for mobile shopping reviews; sentence-level neural network models for multiple-choice reading comprehension tasks; bibliometric review of natural language processing empowered mobile computing; mobile-based question-answering and early warning system for assisting diabetes management; research on new English mobile teaching mode under the impact of mobile internet age.

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Computer Science, Algorithms and Complexity

Adele Kuzmiakova

About the Editor

Adele Kuzmiakova is a computational engineer focusing on solving problems in machine learning, deep learning, and computer vision. Adele attended Cornell University in New York, United States for her undergraduate studies. She studied engineering with a focus on applied math. While at Cornell, she developed close relationships with professors, which enabled her to get involved in academic research to get hands-on experience with solving computational problems. She was also selected to be Accel Roundtable on Entrepreneurship Education (REE) Fellow at Stanford University and spent 3 months working on entrepreneurship projects to get a taste of entrepreneurship and high-growth ventures in engineering and life sciences. The program culminated in giving a presentation on the startup technology and was judged by Stanford faculty and entrepreneurship experts in Silicon Valley. After graduating from Cornell, Adele worked as a data scientist at Swiss Federal Institute of Technology in Lausanne, Switzerland where she focused on developing algorithms and graphical models to analyze chemical pathways in the atmosphere. Adele also pursued graduate studies at Stanford University in the United States where she entered as a recipient of American Association of University Women International Fellowship. The Fellowship enabled her to focus on tackling important research problems in machine learning and computer vision. Some research problems she worked on at Stanford include detecting air pollution from outdoor public webcam images. Specifically, she modified and set up a variety of pre-trained architectures, such as DehazeNet, VGG, and ResNet, on public webcam images to evaluate their ability to predict air quality based on the degree of haze on pictures. Other deep learning problems Adele worked on include investigating the promise of second-order optimizers in deep learning and using neural networks to predict sequences of data in energy consumption. Adele also places an emphasis on continual education and served as a Student Leader in PyTorch scholarship challenge organized by Udacity. Her roles as the Student Leader were helping students debug their code to train neural networks with PyTorch and providing mentorship on technical and career aspects. Her hobbies include skiing, playing tennis, cooking, and meeting new people.

The book defines complexity as a numerical function $T(n)$ —the relationship between time and input size n , as one of the basic ideas of computer science. The computational complexity is categorized by algorithm based on its nature and function. The (computational) complexity of the algorithm is a measurement of the ratio of computational resources (time and space) consumed when a particular algorithm is running. For these issues, the book tries to locate heuristic algorithms which can almost explain the problem and operate in a reasonable timeframe. Different kinds of algorithms are described such as graph and network algorithms, algebraic algorithms, parallel algorithms and randomized algorithms.

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Informatics in Medicine

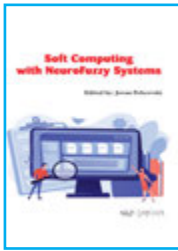
Jovan Pehcevski

About the Editor

Jovan obtained his PhD in Computer Science from RMIT University in Melbourne, Australia in 2007. His research interests include big data, business intelligence and predictive analytics, data and information science, information retrieval, XML, web services and service-oriented architectures, and relational and NoSQL database systems. He has published over 30 journal and conference papers and he also serves as a journal and conference reviewer. He is currently working as a Dean and Associate Professor at European University in Skopje, Macedonia.

In this book - we present different topics from medical informatics, including bioinformatics methods, personalized medicine, IT solutions in medicine, and e-health and m-health. Section 1 focuses on bioinformatics methods, describing a hybrid federated cloud platform to efficiently execute bioinformatics workflows; hierarchical biological pathway data integration and mining; ensemble clustering for biological datasets; and molecular modelling to study interactions between molecules with biological activity. Section 2 focuses on personalized medicine, describing translation in data mining to advance personalized medicine for health equity; PPPM (predictive, preventive and personalized medicine) as a new model of the national and international healthcare services; myocarditis - personalized medicine by expanded endomyocardial biopsy diagnostics; optimal control approach to structured treatment interruptions for HIV patients: a personalized medicine perspective. Section 3 focuses on IT solutions in medicine, describing wireless TDMA-based body area network platform gathering multi-biosignals synchronized with patient's heartbeat; smart care beds for elderly patients with impaired mobility; novel emergency healthcare system for elderly community in outdoor environment; eSkin - study on the smartphone application for early detection of malignant melanoma; compact microstrip lowpass filter with low insertion loss for UWB medical applications. Section 4 focuses on e-health and m-health, describing e-health and telemedicine: current state and future steps; Mobi-healthcare system: body sensor network based m-health system for healthcare application; blended e-health in cognitive behavioral therapy: usage intensity, attitude and therapeutic alliance in clinical practice; performance evaluation of healthcare monitoring system over heterogeneous wireless networks; and impact of using m-health app on improving undergraduate students' sports and health habits and their attitudes toward its use.

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Soft Computing with NeuroFuzzy systems

Jovan Pehcevski

About the Editor

Jovan obtained his PhD in Computer Science from RMIT University in Melbourne, Australia in 2007. His research interests include big data, business intelligence and predictive analytics, data and information science, information retrieval, XML, web services and service-oriented architectures, and relational and NoSQL database systems. He has published over 30 journal and conference papers and he also serves as a journal and conference reviewer. He is currently working as a Dean and Associate Professor at European University in Skopje, Macedonia.

This book covers different topics from soft computing and neuro-fuzzy systems, including intelligent neuro-fuzzy models, adaptive neuro-fuzzy systems, neuro-fuzzy inference systems, and neuro-fuzzy control. Section 1 focuses on intelligent neuro-fuzzy models, describing fuzzy-neuro model for intelligent credit risk management; method to improve airborne pollution forecasting by using ant colony optimization; TSK-type recurrent neuro-fuzzy systems for fault prognosis; and neuro-fuzzy model for QoS based selection of web service. Section 2 focuses on adaptive neuro-fuzzy systems, describing adaptive neuro-fuzzy logic system for heavy metal sorption in aquatic environments; automatic heart disease diagnosis system based on artificial neural network (ANN); reliability estimation of services oriented systems using adaptive neuro fuzzy inference system; and prediction of soil fractions (sand, silt and clay) in surface layer based on natural radionuclides concentration. Section 3 focuses on neuro-fuzzy inference systems, describing adaptive neuro-fuzzy inference system for prediction of effective thermal conductivity of polymer-matrix composites; application of adaptive neuro-fuzzy inference system in supply chain management evaluation; application of the adaptive neuro-fuzzy inference system for optimal design of reinforced concrete beams; comparison between neural network and adaptive neuro-fuzzy inference system for forecasting chaotic traffic volumes; and development of an alternative method for the sovereign credit rating system based on adaptive neuro-fuzzy inference system. Section 4 focuses on neuro-fuzzy control, describing implementation of adaptive neuro fuzzy inference system in speed control of induction motor drives; neuro-fuzzy based interline power flow controller for real time power flow control in multiline power system; controlling speed of dc motor with fuzzy controller in comparison with ANFIS controller; a neuro-fuzzy controller for collaborative applications in robotics using LabVIEW; and adaptive fuzzy sliding mode control scheme for robotic systems.

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Software Security: Building Secure Software Applications

Neha Kaul

About the Author

Neha Kaul is an experienced Java consultant currently residing in Paris, France and working for one of the leading financial companies in France. She received her double Master's Degree in Computer and Communication Networks and Information Technology from Telecom SudParis and University Paris-Saclay in 2016. She is a recipient of the prestigious Telecom Scholarship for Excellence provided by Fondation Telecom, France. She received the Bachelor of Engineering degree in Computer Engineering from the University of Pune, India in 2011. From 2011 to 2014, she was employed as a Software Engineer with Geometric Ltd, Pune, India. Her major interests include Advanced Java frameworks, Logging Frameworks, Network Security and Data Mining.

Software Security: Building secure software applications discusses in detail the importance of security in software, and the vulnerability associated with the use of software. Considering the latest developments in technology, the book presents a detailed overview of guidelines and techniques to build secure software applications. It further explains the known security concerns, and how the same can be overcome. Towards the end, a chapter is dedicated to the techniques related to software testing and auditing.

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A Practical Approach to Data Structure and Algorithm with Programming in C

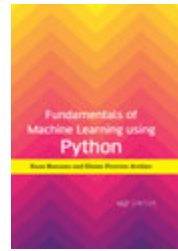
Akhilesh Kumar Srivastava

About the Author

Akhilesh Kumar Srivastava is a Computer Science Graduate from K.N.I.T. Sultanpur and Post Graduate from Dr. APJ Abdul Kalam Technical University Lucknow. The author is GATE and UGC Net Qualified. He has written three books and several research papers in International/National Journals and presented papers in International Conferences. The author runs his own YouTube Educational Channel with substantial viewership across the globe. The author has also received several awards from academic institutes and industries like Infosys Ltd.

A Practical Approach to Data Structure and Algorithm with Programming in C discusses about how data structure and algorithm plays out with programming in C. This book comprises topics such as algorithm writing and array. This book sheds light on topics such as searching algorithms, searching algorithms and heap & heap sort in terms of data structure. Readers have also provided insights about basic as well as advanced level information about types of arrays, space complexity of recursive algorithm and primitive operations on array. There is also a discussion about the applications and implementation of the above-mentioned factors in this book.

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Fundamentals of Machine Learning using Python

Euan Russano and Elaine Ferreira Avelino

About the Authors

Euan Russano was born in Minas Gerais, Brazil. He is a Chemical Engineer since 2012 by the Rural University of Rio de Janeiro (UFRRJ). He obtained his Msc. in 2014 at UFRRJ, in the area of Chemical Engineering, with specialization in Process Control. In 2014, Russano began to develop his PhD at the University Duisburg-Essen (UDE) in the field of Water Science. His career was initiated in a Petrobras project in the Polymers Laboratory, at UFRRJ. From 2012 to 2014 he worked in the Fluids Flow Laboratory (Petrobras/ UFRRJ) with oil well pressure control. Since 2014 he works as a research assistant at the University of Duisburg-Essen, with water systems identification and control.

Elaine Ferreira Avelino was born in Rio de Janeiro, Brazil. She obtained her Bsc in Forestry Engineering at the Rural University of Rio de Janeiro (UFRRJ) in 2007 and Msc. in 2012 at UFRRJ, in the area of Forestry and Environmental Sciences, with specialization in Wood Technology. She started her career in the Secretary for Environment of Rio de Janeiro, with Urban and Environmental Planning. Elaine was a professor of Zoology, Entomology, Forestry Parasitology and Introduction to Research at the Pitagoras University. Since 2013 she works as an international consultant for forest management and environmental licensing.

Fundamentals of Machine Learning discusses the basics of python, use of python in computing and provides a general outlook on machine learning. This book provides an insight into concepts such as linear regression with one variable, linear algebra, and linear regression with multiple inputs. The classification with logistics regression model, regularization, neural networks, decision trees are explained in this book. The introduction to several concepts of machine learning such as component analysis, classification using k-Nearest Algorithm, k Means Clustering, computing with Tensor flow and natural language processing have been explained. This book explains the fundamental concepts of machine learning.

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Virtual Reality Systems

Zoran Gacovski

About the Editor

Dr. Zoran Gacovski has earned his PhD degree at Faculty of Electrical engineering, Skopje. His research interests include Intelligent systems and Software engineering, fuzzy systems, graphical models (Petri, Neural and Bayesian networks), and IT security. He has published over 50 journal and conference papers, and he has been reviewer of renowned Journals. Currently, he is a professor in Computer Engineering at European University, Skopje, Macedonia.

Virtual Reality Systems takes into account the control of motions and movements in virtual reality, brain-computer interface system applied for virtual reality control and traffic and driving simulator based on architecture of interactive motion. This book also discusses about robotics towards a model of user experience in immersive virtual environments, training system of lathe works on virtual operating platform, virtual reality surgical training in ear, nose and throat surgery, development of a medical training system with integration of users' skills assessment, augmented reality and possibilities, limitations and effectiveness of applying "virtual realities" in psychotherapy. It also provides the readers with the basic idea about virtual reality systems so as to get better understanding of motion control, virtual environment of robotics, medical and neural application of virtual reality and the correlation between virtual reality and neuroscience.

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Blockchain Technologies and Crypto-currencies

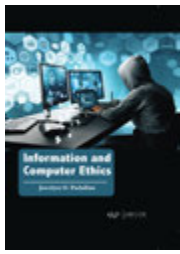
Jovan Pehcevski

About the Editor

Jovan obtained his PhD in Computer Science from RMIT University in Melbourne, Australia in 2007. His research interests include big data, business intelligence and predictive analytics, data and information science, information retrieval, XML, web services and service-oriented architectures, and relational and NoSQL database systems. He has published over 30 journal and conference papers and he also serves as a journal and conference reviewer. He is currently working as a Dean and Associate Professor at European University in Skopje, Macedonia.

Blockchain Technologies and Crypto-Currencies takes into account the methods and technologies involved in blockchain along with its significant application in the field of finance. It includes the analysis of R & D capability of china's blockchain technology and implementation of blockchain as a breakthrough in the development of artificial intelligence. This book also discusses about Blockchain-Based Access Verification Protocol in LEO Constellation Using IBE Keys, Blockchain Platform for Industrial Internet of Things, Blockchain Based Credibility Verification Method, Research on a New Signature Scheme on Blockchain and IOV Privacy Protection System Based on Double-Layered Chains. It also provides the reader with the insights of crypto-currencies and blockchain technologies in order to analyze the impact of blockchain technologies in the field of finance and its application to the Internet of things (IoT).

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Information and Computer Ethics

Jocelyn O. Padallan

About the Author

Jocelyn O. Padallan is currently pursuing her Master of Science in Information Technology from Laguna State Polytechnic University, Philippines and has Master of Arts in Educational Management from the same University. She has passion for teaching and has been an Instructor at Laguna State Polytechnic, Los Banos Campus, Philippines.

Information and Computer Ethics deals with the basic idea of information ethics. It also includes the concept of moral methodology and information technology. It provides the reader with basic insights of global development of information technology and computer ethics so as to understand the ethical issues that are involved in the information and computer sector along with the regulatory issues and challenges. This book also discusses about normative theories and computer ethics, ethical issues involved in the sector of information and computer, international development and computer ethics, technologies of autonomous agency and regulatory issues and challenges involved in the sector of information and computer ethics.

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Parallel Programming

Ivan Stanimirovi

About the Author

Ivan Stanimirovi gained his PhD from University of Ni, Serbia in 2013. His work spans from multi-objective optimization methods to applications of generalized matrix inverses in areas such as image processing and computer graphics and visualisations. He is currently working as an Assistant professor at Faculty of Sciences and Mathematics at University of Ni on computing generalized matrix inverses and its applications.

Parallel Programming talks about a type of computation "parallel programming" and the parallel algorithm designed by technique "PCAM". It includes the description of parallel computer systems and parallelization of web compatibility tests in software development. It provides the reader with the understanding of parallel programming so as to analyze the differences in modular programming, recursive programming and dynamic programming and precise knowledge related to Turing's Hypothesis. This book also discusses about Theoretical Framework of parallel programming, Modular Programming, Recursive Programming and Dynamic Programming and Turing's Hypothesis

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Systems, Software and Services Process Improvement

Gerard Prudhomme

About the Author

Gerard I. Prudhomme has a graduate degree (M.S.) for Computer Science from University College London (UCL). He has also worked as a software programmer and tech writer for different Fortune 500 companies, and studied at UCL, Harvard, and Oxford.

Systems, Software and Services Process Improvement makes the readers aware with the subject of risk management. It talks about the need for a language for documenting computer software's architectural motifs. It takes the readers through the various strategies that focus on the enhancement of software program and throws light on the various assets of computer software language. Also discussed in the book are the types of computer software language techniques, the knowledge on how to get systems quickly developed, information on informed options for software program design, explanatory types of programming and the ways of programming and aggregating the information.

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Cyber Security

Jocelyn O. Padallan

About the Author

Jocelyn O. Padallan is currently pursuing her Master of Science in Information Technology from Laguna State Polytechnic University, Philippines and has Master of Arts in Educational Management from the same University. She has passion for teaching and has been an Instructor at Laguna State Polytechnic, Los Banos Campus, Philippines.

Cyber Security explains cybercrime in terms of a market of vulnerability and lays down the fundamentals of cyber security. It explains the management of cyber security and informs the readers about the cyber investigators and digital forensics. Also discussed in the book is the explanation of social media, botnet and the intrusion detection, the relation of cyber security with industrial control systems, the legal framework for cyber security and the role of automation in cyber security.

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Java Programming Applications

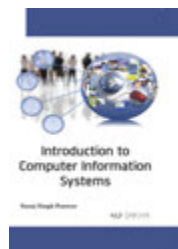
Gerard Prudhomme

About the Author

Gerard I. Prudhomme has a graduate degree (M.S.) for Computer Science from University College London (UCL). He has also worked as a software programmer and tech writer for different Fortune 500 companies, and studied at UCL, Harvard, and Oxford.

Java Programming Applications discusses the basic concept of portability, NET, Java and its documentation and tools. It includes different kinds of Java use for the Web and desktop applications. This book also discusses about the Java language and how it actually functions. It provides the reader with the basic insights of the Java programming languages so as to understand how Java can help to improve the overall efficiency of an organization.

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Introduction to Computer Information Systems

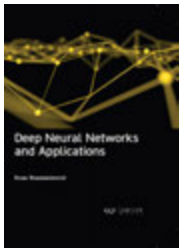
Suraj Singh Panwar

About the Author

Suraj Singh Panwar has completed his Master of Technology on Computer Science and Engineering from Faculty of Technology, University Campus, Dehradun, India. He has many years of experience in teaching. He has published articles in reputed Journals and has also chaired many conferences and workshops.

Introduction to Computer Information Systems gives an introduction to computer information systems and discusses about the computer hardware and software in addition to the subject of remote access and data communication. It talks about the various programming languages in the computer information systems and elaborates on the databases and database management system. Also discussed in the book are the networks, internet, and communication devices, computer information systems for business, the ethical and legal implications of a computer information system and the future of computer information systems, which provide basic insights on the various aspects of computer information systems.

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Deep Neural Networks and Applications

Ivan Stanimirovi

About the Author

Ivan Stanimirovic gained his PhD from University of Ni , Serbia in 2013. His work spans from multi-objective optimization methods to applications of generalized matrix inverses in areas such as image processing and computer graphics and visualisations. He is currently working as an Assistant professor at Faculty of Sciences and Mathematics at University of Ni on computing generalized matrix inverses and its applications.

Deep neural networks and applications makes the readers aware about the various Artificial Neural Networks (ANN) and the topologies related to Main Neutral Networks (MNN). The book throws light on the prospect of artificial intelligence and the applications it has in risk management. It further elaborates on the Artificial Neutral Networks in detail and discusses the practical applications of the deep neural networks. Also discussed in the book is the optimization of deep learning for the best performance of e-learning data, the methodology and the research framework, development of the algorithms that quicken the data processing over complex network architectures and the optimization of database query structures using deep learning.

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Human-Computer Interaction

Zoran Gacovski

About the Editor

Dr. Zoran Gacovski has earned his PhD degree at Faculty of Electrical engineering, Skopje. His research interests include Intelligent systems and Software engineering, fuzzy systems, graphical models (Petri, Neural and Bayesian networks), and IT security. He has published over 50 journal and conference papers, and he has been reviewer of renowned Journals. Currently, he is a professor in Computer Engineering at European University, Skopje, Macedonia.

Human-Computer Interaction takes into account the development of human-computer interaction methods. It includes the development and preliminary investigation of a semiautonomous socially assistive robot and ergonomic design of human-CNC machine interface. This book also discusses about real-world applications of HCI techniques, non-intrusive physiological monitoring for affective sensing of computer users, modeling human-computer interaction in smart spaces: existing and emerging techniques, structured light illumination methods for continuous motion hand and face-computer interaction, a method for designing physical user interfaces for intelligent production environments and the role of head-up display in computer-assisted instruction.

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Biometrics Authentication Methods

Zoran Gacovski

About the Editor

Dr. Zoran Gacovski has earned his PhD degree at Faculty of Electrical engineering, Skopje. His research interests include Intelligent systems and Software engineering, fuzzy systems, graphical models (Petri, Neural and Bayesian networks), and IT security. He has published over 50 journal and conference papers, and he has been reviewer of renowned Journals. Currently, he is a professor in Computer Engineering at European University, Skopje, Macedonia.

Biometrics Authentication Methods deals with the methods and approaches of biometrics and the fundamental principles involved in the hand shape biometrics. It consists of modern trends involved in the techniques related to biometrics and their evaluation. This book also discusses about strategies for exploiting independent cloud implementations of biometric experts in multibiometric scenarios, performance evaluation of automatic speaker recognition techniques for forensic applications, an AFIS candidate list centric fingerprint likelihood ratio model based on morphometric and spatial analyses (MSA), a new scheme for the polynomial based biometric cryptosystems and secure telemedicine: biometrics for remote and continuous patient verification.

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Machine vision and Image Recognition

Jovan Pehceviski

About the Editor

Jovan obtained his PhD in Computer Science from RMIT University in Melbourne, Australia in 2007. His research interests include big data, business intelligence and predictive analytics, data and information science, information retrieval, XML, web services and service-oriented architectures, and relational and NoSQL database systems. He has published over 30 journal and conference papers and he also serves as a journal and conference reviewer. He is currently working as a Dean and Associate Professor at European University in Skopje, Macedonia.

Machine Vision and Image Recognition informs the readers about the behavior fusion for visually guided service robots and the approaches and limitation in achieving vision in machine. The readers are informed about the use of beacon tracker for dynamic omnidirectional vision localization and explained the QoE assessment of will transmission. They are explained about the concepts that are there to be learnt in neuromorphic vision systems and told about an automatic assembling system for sealing rings. Also discussed in the book is the design of omnidirectional tilt sensor, modelling and positioning system in sand casting process, raising sow and procreating of processing, augmented reality applications, 3D autonomous navigation line, all of which and even more is based on machine vision.

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Environmental Engineering for Civil Engineers

Tanjina Nur

About the Author

Tanjina finished her PhD in Civil and Environmental Engineering in 2014 from University of Technology Sydney (UTS). Now she is working as Post-Doctoral Researcher in the Centre for Technology in Water and Wastewater (CTWW) and published about eight International journal papers with 80 citations. Her research interest is wastewater treatment technology using adsorption process.

This book on Environmental Engineering offers a thorough overview of different environmental stakeholders including water, air and materials present on earth. Considerable stress is given on the control of pollution caused by human activities. Apart from engineering principles, legal principles along with a comprehensive overview of risk analysis are also incorporated in the book.

The text in the book mainly focusses on modern and classical engineering principles encompassing the production and control of water and air pollutants, hazardous and solid waste, etc. The quality of water and different water treatment technologies are also discussed in the book. Detailed analysis of air pollution, air quality and air quality control are embedded in this book. Effects of environmental pollution on human and animal health are also discussed in the book.

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Biocompatibility testing of Medical Devices

Shalinee Naidoo

About the Author

Shalinee Naidoo is currently the Regulatory and Product Development Manager of a medical device manufacturer based in South Africa. She is directly involved in global regulatory compliance and design and development of new medical devices from idea conception to market. She is also the founder of Life of Shal (www.lifeofshal.com) an online travel journal created to inspire others to explore the world and Scientist's Sanctuary (www.scientistssanctuary.com) – a science communication company that specializes in bridging the gap between scientific knowledge and creative communication for both the academic and corporate world.

specializes in bridging the gap between scientific knowledge and creative communication for both the academic and corporate world.

Biocompatibility, is by definition, a measurement of how compatible a device is with a biological system. The purpose of performing biocompatibility testing is to determine the safety of a device for human use, taking into consideration the intended use and specific legal requirements at the time of registration. This is essential to determine whether a device has the potential to cause adverse effects as many devices may be subject to degradation when implanted into tissues or subjected to the surrounding degradation effects of body. Manufacturers must be able to show safety of all device components and the finished device through acceptable toxicological data and related literature. If a manufacturer cannot show this information, then their device will need to undergo testing. This volume aims to provide a simple understanding around the concepts of biocompatible medical devices. Much information is provided to help manufacturers when choosing appropriate tests and to ensure that biomaterials and finished devices are safe and will perform as intended when used in a clinical setting. Key concepts of the ISO 10993 series of standards is provided as well as some of the major challenges faced by medical device manufacturers when considering biocompatibility testing. A simple understanding around the evaluation and characterization of biocompatible materials as well as the regulation of such devices are provided. In addition, a simplified overview of how to set up a basic biocompatibility testing laboratory is also included.

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Water Treatment Plants: Technology and Approaches

Saeed Farrokhpay

About the Editor

Dr Saeed Farrokhpay is a Chemical Engineer with over 15 years of experience in mineral & material processing. He obtained his PhD from Ian Wark Research Institute, University of South Australia in 2005. He is a Senior Research Scientist at University of Lorraine. Previously, he has worked at University of South Australia, and University of Queensland. He has published more than 80 papers in high ranked journals and conference proceedings and has served as an editorial board member of several journals.

This book covers the technologies which are applied to treat and purify water. This treatise on water treatment is also closely associated with solid-liquid separations. The subject of water treatment is wide-ranging and the technologies discussed in this book not just confined to only physical methods of water pollution control. A comprehensive illustration of technologies pertinent to treatment of both ground water and wastewater (i.e., industrial, pharmaceutical and municipal) is embodied in this book. The approaches and technologies summarized are a combination of chemical, physical, and biological techniques. There eight chapters in this book. All the chapter deal with fundamental technologies used in water treatment process which include, coagulation, flocculation, activated sludge treatment, microfiltration, nanofiltration, reverse osmosis, membrane bioreactor technology, etc. In this book, particular stress is given to water treatment technologies which are not only environmentally friendly but also cost effective. This book can be treated as a ready reference for all the topics related to water pollution and water treatment. Students, researchers and industrialists in the field of water treatment can use this book to solve the problems related to water purification technologies.

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A Simple Guide to Understanding Medical Device Regulations

Shalinee Naidoo

About the Author

Shalinee Naidoo is currently the Regulatory and Product Development Manager of a medical device manufacturer based in South Africa. She is directly involved in global regulatory compliance and design and development of new medical devices from idea conception to market. She is also the founder of Life of Shal (www.lifeofshal.com) an online travel journal created to inspire others to explore the world and Scientist's Sanctuary (www.scientistssanctuary.com) – a science communication company that specializes in bridging the gap between scientific knowledge and creative communication for both the academic and corporate world.

specializes in bridging the gap between scientific knowledge and creative communication for both the academic and corporate world.

As innovation and rapid advancement in technologies take over, medical devices have now become one of the fastest-growing industries globally. In 2000, it was estimated that one and half million different medical devices were available on the market worldwide. For many countries, their regulatory systems have proven to be ineffective in quality management and in monitoring the domestic market to prevent unsafe and low-quality medical products from entering. The lack of harmonized processes when assessing the safety and efficacy or performance of medical products has also led to an increase in costs associated with licensing where required. Regulatory controls for medical devices are often complicated to implement due to the many different types of devices available on the market. Often the risks associated with each type of device differ, making the opportunity for misuse considerable. The purpose of this book is to provide readers with an overview of how regulatory systems work and what goes into implementing a simple regulatory framework. It also aims to highlight the importance of long-lasting good governance where regulation of medical devices is concerned and to provide a step-by-step approach on the development of national regulatory programs for medical devices. It looks at what are some of the guiding principles and essential features of a simple medical device regulatory program, what governs the safety of medical devices and who is responsible for implementation, applying conformity assessment rules and the use of standards to guide a regulatory model.

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Medical Device Regulations: Transitioning from MDD 93/42/EEC to MDR 2017/745

Shalinee Naidoo

About the Author

Shalinee Naidoo is currently the Regulatory and Product Development Manager of a medical device manufacturer based in South Africa. She is directly involved in global regulatory compliance and design and development of new medical devices from idea conception to market. She is also the founder of Life of Shal (www.lifeofshal.com) an online travel journal created to inspire others to explore the world and Scientist's Sanctuary (www.scientistssanctuary.com) – a science communication company that specializes in bridging the gap between scientific knowledge and creative communication for both the academic and corporate world.

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In recent times the need for improving regulatory controls and finding ways to improve the quality and access to safe medical devices has increased. The Medical Devices Directive 93/42/EEC was enforced to provide a harmonised regulatory environment for all medical devices sold within the European Union however new and emerging technologies as well as various well-known incidents within the medical device industry have challenged the current framework and highlighted gaps and a scarcity of skills and expertise. For this reason, there has been an increasing need to update the MDD which led to the development and release of the Medical Device Regulation (EU MDR 2017/745). This has since marked the start of a three-year transition period for manufacturers, suppliers, Notified Bodies, and National Competent Authorities. While compliance to the new regulation was set to take effect in May of 2020, it has now been postponed by a year due to the recent coronavirus pandemic. This has essentially given manufacturers more time to assess their overall readiness and reprioritize the time-consuming areas of the transition. This volume aims to provide an easy-to-understand guide for beginners to the medical device regulations in Europe and looks specifically at the changes between the current Medical Device Directive 93/42/EEC and forthcoming Medical Devices Regulation (EU MDR 2017/745) with regards to classification, conformity assessments and assessing general safety and performance requirements.

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Sustainable Building Technologies

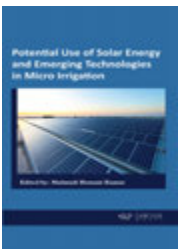
Tanjina Nur

About the Author

Tanjina finished her PhD in Civil and Environmental Engineering in 2014 from University of Technology Sydney (UTS). Now she is working as Post-Doctoral Researcher in the Centre for Technology in Water and Wastewater (CTWW) and published about eight International journal papers with 80 citations. Her research interest is wastewater treatment technology using adsorption process.

Sustainable Building Technologies is a book that educates the readers about the technologies, methods, and ways in which the buildings or structures can be built to support sustainability in the future. The book throws light on the sustainable methods that can be incorporated to build the walls, the roof, floors, doors, windows, rooftops, etc. in a sustainable building. It also shares knowledge on the concept of green buildings and explains how they may play a major role in the future.

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Potential Use of Solar Energy and Emerging Technologies in Micro Irrigation

Mulmudi Hemant Kumar, Ph.D.

About the Editor

Hemant is the founder and director of BM Renewables Pvt Ltd based in Canberra. Dr. Mulmudi obtained his PhD in materials science (2014) from the Nanyang Technological University, Singapore, his MS in nanotechnology from the Ulm University, Germany (2009), and his bachelor's degree in metallurgical and materials engineering (2007) from the Indian Institute of Technology-Roorkee, India. He is an expert in the field of solar energy generation, especially, with the third generation of solar cells such as dye-sensitized solar cells and halide based perovskite solar cells. He worked on cathodoluminescence spectroscopy to unravel the optoelectronic properties of halide based perovskite materials. Dr. Mulmudi also developed cross-sectional nanoindentation technique to evaluate the fracture toughness of single and multi-junction photovoltaic devices at the Australian National University, Canberra. His research highlights include the first demonstration of a low-temperature, solution based processing of flexible solid state perovskite solar cells (Chemical Communications 49 (94), 11089-11091) and also stable lead-free inorganic perovskite solar cell (Advanced Materials 26 (41), 7122-7127). He has published over 35 internationally acclaimed peer-reviewed journals, filed a provisional patent with IP Australia (IP right number: 2018902843) and has co-authored a book titled 'Perovskite Solar cells: Technology and Practices'. He also delivers lectures on photovoltaic technologies as a casual academic at the Australian National University, Canberra.

Potential Use of Solar Energy and Emerging Technologies in Micro Irrigation is a book that deeply emphasizes on the various kinds of applications that solar energy can have in the field of micro irrigation. The book explores areas in which the solar energy can be applied and the technologies that can be run on solar power. The book also explores the possible applications of current solar technologies in this field and throws some light on the ways in which the solar power can cut down the costs significantly and also reduce the pressure on other sources of energy.

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Digital Communication Systems: Signals, Channels, and Signaling

Stefano Spezia

About the Editor

Stefano Spezia is Ph.D. holder in Applied Physics at the University of Palermo since April 2012. His major research experience is in noise-induced effects in nonlinear systems, especially in the fields of modeling of complex biological systems and simulation of semiconductor spintronic devices. Associate member of the Italian Physical Society and European Physical Society.

During the last two decades, there has been an explosive growth in the telecommunications industry, characterized by an exponential increase in demand due to the addition of more and more individual computing devices. Digital Communication Systems: Signals, Channels, and Signaling book presents those concepts of mathematics that continue to reveal fundamentals for digital communication systems: principles of information theory, signaling over channels affected by additive white Gaussian noise, over band-limited channels, and fading channels.

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Green Energy and its Impacts

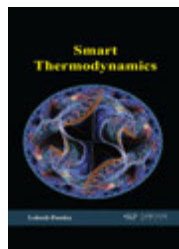
Saket Kushwaha

About the Author

Prof. Saket Kushwaha, currently the Vice Chancellor of Rajiv Gandhi University is specialized in resource management and sustainable agriculture development. After his higher studies from Banaras Hindu University, he joined Abubakar Tafawa Balewa University (ATBU), Bauchi, Nigeria in 1993 and taught various courses on Agriculture Economics and Management at undergraduate, post graduate and Ph.D. level. Prof. Kushwaha rose to the rank of Professor at ATBU in the year 1999 and in 2006 he joined Banaras Hindu University (BHU), India as professor in agriculture economics and became the Vice Chancellor of Lalit Narayan Mithila University for one term 2014-2017. He has more than 100 publications in national and international journals of repute, supervised 24 Ph.D. students and authored 17 books / book chapters. Prof. Kushwaha is life member of 10 Professional Bodies and sits in the panel of editorial boards. Worked extensively in the field of Zero Emission Research Initiatives (ZERI) propagating the mission of sustainable development under the aegis of "Waste is Wealth" concept. He is also the recipient of 17 national and international awards which includes award from Sulabh International Gold Medal in 2016 for sanitation management. 27 years of teaching, research, extension and community service experience with 23 years in administration. Handled over 10 national and International projects majorly funded by World Banks. Coordinated USAID project on Cowpea Research Support Programme (CRSP) in Nigeria for 10 years from 1996 to 2006. Working with NGOs and mega agriculture farms for Green Farm Planning.

Presently, the petroleum and nuclear industries take the developing competition from solar and wind energy extremely seriously. Therefore, the advent of novel green energy solutions pose a threat to the conventional energy markets. On the other hand, green energy resources provide sustainable energy solutions with negligible environmental impacts. This book unveils fundamental areas to ensuring the sustainable and secure development and utilization of energy resources, and provides corresponding solutions. It discusses the latest progresses in green energy production with a deep insight into the impacts of green energy on society and the environment. Moreover, this book goes beyond theoretical knowledge and discusses the practical problems and their solutions related to energy and sustainable development.

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Smart Thermodynamics

Lokesh Pandey

About the Author

Lokesh Pandey is currently pursuing his PhD in Mechanical Engineering from Uttarakhand Technical University, India, where he also completed his M. Tech in Thermal Engineering. He has more than 3 years teaching experience as a Faculty for Mechanical Engineering. He has published articles in reputed Journals and has also chaired many conferences and workshops.

The book 'Smart Thermodynamics' brings to the knowledge of the readers - the various concepts related to thermodynamics and also relates them with the manner in which they can be applied to produce some smart results. Thermodynamics has been perceived in a very different and sustainable light and it has been tried to show the way in which it can be applied in a smart way to achieve unbelievably sustainable results. Thermodynamics is a very vast field and has numerous applications which when given a smart twist can be of extreme usefulness.

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Unmanned Aerial Vehicles (UAV) and Drones

Zoran Gacovski

About the Editor

Dr. Zoran Gacovski has earned his PhD degree at Faculty of Electrical engineering, Skopje. His research interests include Intelligent systems and Software engineering, fuzzy systems, graphical models (Petri, Neural and Bayesian networks), and IT security. He has published over 50 journal and conference papers, and he has been reviewer of renowned Journals. Currently, he is a professor in Computer Engineering at European University, Skopje, Macedonia.

This book covers different topics from UAV-s and drones – such as design and development of UAV-s, trajectory control techniques, small drones and quadrotors, and application scenarios of UAV-s and drones. Section 1 focuses on design and development of UAV-s, describing design and development of a fly-by-wireless UAV platform; review of control algorithms for autonomous quadrotors; central command architecture for high-order autonomous unmanned aerial systems, and quadcopter design for payload delivery. Section 2 focuses on trajectory control techniques, describing development of rescue material transport UAV; railway transport infrastructure monitoring by UAVs and satellites; assessment of UAV based vegetation indices for nitrogen concentration estimation in spring wheat; research and teaching applications of remote sensing integrated with GIS: examples from the field, and development of drone cargo bay with real-time temperature control. Section 3 focuses on small drones and quadrotors, describing neural network control and wireless sensor network-based localization of quadrotor UAV formations; navigation of small-class unmanned aerial vehicles; modelling oil-spill detection with swarm drones, a survey of modelling and identification of quadrotor robot, and visual flight control of a quadrotor using bioinspired motion detector. Section 4 focuses on application scenarios of UAV-s and drones, describing rescue material transport UAV; railway transport infrastructure monitoring by UAVs; UAV based vegetation indices for nitrogen concentration estimation, research and teaching applications of remote sensing integrated with GIS, drone cargo bay with real-time temperature control.

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Transportation Technologies

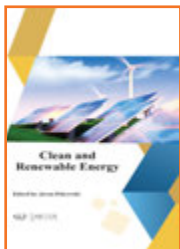
Zoran Gacovski

About the Editor

Dr. Zoran Gacovski has earned his PhD degree at Faculty of Electrical engineering, Skopje. His research interests include Intelligent systems and Software engineering, fuzzy systems, graphical models (Petri, Neural and Bayesian networks), and IT security. He has published over 50 journal and conference papers, and he has been reviewer of renowned Journals. Currently, he is a professor in Computer Engineering at European University, Skopje, Macedonia.

This edition covers different topics from the transportation technologies, including control and automation of transport, public transport prediction, techniques to reduce crashes and case studies from different countries. Section 1 focuses on control and automation of the transport, describing fuzzy rules to improve traffic light decisions in urban roads; evaluation of merge control strategies at interstate work zones under peak and off-peak traffic conditions; modulating traffic signal phases to realize real-time traffic control system; traffic regulation at critical intersections: a case study of Odole intersection, Akure, Nigeria. Section 2 focuses on techniques to reduce crashes, describing comprehensive study of single and multiple truck crashes using violation and crash data; predicting truck at-fault crashes using crash and traffic offence data; road traffic crash data: an overview on sources, problems, and collection methods; road crash prediction models: different statistical modeling approaches; high-risk rural road safety study and determining the crash-reduction factors for high-risk rural-road usage. Section 3 focuses on public transport prediction, describing prediction of civil aviation passenger transportation based on ARIMA model; present assessment of public traffic system based on GIS in Kitakyushu; development of a GIS based public transport composite social need index in Jeddah; evaluation of past investment in urban public transportation. Section 4 focuses on case studies from different countries, describing transport policy - the perspective of Swedish stakeholders; Spanish initiative for the automation in urban transport: AutoMOST; fuzzy analysis and evaluation of public transport service quality: a case study of Dar-es Salaam city, Tanzania; intermodal terminal localization using a linear programming approach: the case study of Togo and west African landlocked countries; study on objectives and strategies for energy conservation and emission reduction in transportation industry during the 13th five-year plan period in Beijing.

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Clean and Renewable Energy

Jovan Pehceviski

About the Editor

Jovan obtained his PhD in Computer Science from RMIT University in Melbourne, Australia in 2007. His research interests include big data, business intelligence and predictive analytics, data and information science, information retrieval, XML, web services and service-oriented architectures, and relational and NoSQL database systems. He has published over 30 journal and conference papers and he also serves as a journal and conference reviewer. He is currently working as a Dean and Associate Professor at European University in Skopje, Macedonia.

This edition covers different topics from clean and renewable energy, including solar and wind energy, smart grids, analysis of renewable energy, and case studies from different countries. Section 1 focuses on solar and wind energy, describing technical properties of wind and solar photovoltaic power; improving the power generation performance of a solar tower using thermal updraft wind; wind-solar hybrid electrical power production to support national grid: case study – Jordan; and overview of research on optimization of integrated solar/wind power generation systems. Section 2 focuses on smart grids, describing energy efficiency and renewable energy technologies using smart grids; perspective on the future of distribution: smart grids, state of the art, benefits and research plans; framework for qualifying and evaluating smart grids approaches: focus on multi-agent technologies; energy efficiency in smart grid: a prospective study on energy management systems; voltage control in smart grids: an approach based on sensitivity theory. Section 3 focuses on analysis of renewable energy, describing reliability evaluation of renewable energy share in power systems; a new approach for converting renewable energy to stable energy; powering renewable programs: the utility perspective; and technical analysis and enlightenment of renewable energy. Section 4 focuses on case studies from different countries, describing a GIS methodology for planning sustainable renewable energy deployment in Portugal; necessity of the development of standards for renewable energy technologies in Nigeria; the development of the renewable energy technologies in Spain; the development of electricity grid, smart grid and renewable energy in Taiwan; evaluation of renewable energy vulnerability to climate change in Brazil: a case study of biofuels and solar energy.

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Mechatronics and Robotics

Zoran Gacovski

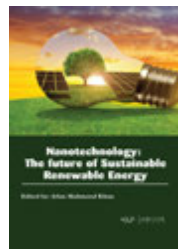
About the Editor

Dr. Zoran Gacovski has earned his PhD degree at Faculty of Electrical engineering, Skopje. His research interests include Intelligent systems and Software engineering, fuzzy systems, graphical models (Petri, Neural and Bayesian networks), and IT security. He has published over 50 journal and conference papers, and he has been reviewer of renowned Journals. Currently, he is a professor in Computer Engineering at European University, Skopje, Macedonia.

This edition covers different topics from mechatronics and robotics, including mechatronics basics, robotics arms and manipulators, sensors and actuators in mechatronics.

Section 1 focuses on mechatronics basics, describing a brief history of industrial robotics in the 20th century; an IoT model for cyber-physical manufacturing systems; 3+1 SysML view-model in model integrated mechatronics; design and development of mechatronic application in agricultural irrigated device. Section 2 focuses on robotics arms and manipulators, describing design and development of a competitive low-cost robot arm with four degrees of freedom; an adaptive robust approach to modeling and control of flexible arm robots; interactive heuristic d* path planning solution based on PSO for two-link robotic arm in dynamic environment; optimal task placement of a serial robot manipulator for manipulability and mechanical power optimization; kinematical analysis and simulation of high-speed plate carrying manipulator based on Matlab. Section 3 focuses on sensors in mechatronics, describing flexible impact force sensor; a sensing and robot navigation of hybrid sensor network; a study on vehicle detection and tracking using wireless sensor networks; deployment of pre-industrial autonomous microbe sensor in Saudi Arabia's injection seawater system. Section 4 focuses on actuators, describing a survey of modeling and control of piezoelectric actuators; experimental investigation of photostrictive materials for MEMS application; theory and simulation analysis of the mode shape and normal shape actuators and sensors; experimental study of the response of transonic diffuser flow to a piezoceramic actuator at diffuser throat; an ARX-based PID-sliding mode control on velocity tracking control of a stick-slip Piezoelectric-driven actuator.

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Nanotechnology: The future of Sustainable Renewable Energy

Irfan Mahmood Khan

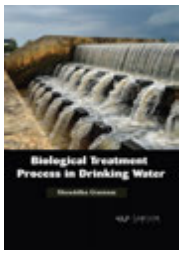
About the Editor

Irfan Mahmood Khan is known for his work in the field of nanoscience and nanotechnology. He has worked on various research projects in the field of nanotechnology and solar cells. He is an acknowledged author of various publications in the area of his interest. Mr. Khan is currently serving as a student researcher at Université de Montpellier France. He acquired his Bachelor of Engineering in Materials Science and Engineering from Institute of Space Technology, Pakistan. After serving as a research lead in an industrial environment, Mr. Khan honed his research skills by acquiring his Erasmus Mundus Master degree in Membrane Engineering. Interuniversity Microelectronics Centre (IMEC), Belgium, is globally recognized as the pioneer of nanoelectronics and solar photovoltaics. Mr. Khan has also worked with IMEC and conducted research on second generation solar cells

The sun is an ultimate source of clean energy which is available in abundance. One hour of solar energy retrieved from sunlight is equivalent to the world's total energy consumption in a complete year (i.e., 16 TW). The development of low cost and highly efficient photovoltaic technology is a vital scientific goal and researchers have been trying to achieve it in the past two decades. The novel synthesis technique for preparation of solar cells has attracted significant interest because of their smart features which include low-temperature synthesis, synthetic variability, and the probability of fabricating flexible, lightweight, and green photovoltaic cells. Nanotechnology is the technology of future. It has a wide ranging domain of applications in almost every field of human activity which include chemical engineering, materials science, medicine, electronics, energy sector, etc. Presently, the use of nanotechnology in manufacturing of solar cells is gaining a significant attention due to its ability to provide cost-efficient and eco-friendly green energy solutions.

Each chapter of this book recapitulates the applications of nanotechnology for development of green energy solutions. Introductory chapters of the book also contain the applications of nanotechnology beyond photovoltaics, and the key fabrication techniques, followed illustration of particular nanostructure type produced by application of a certain synthesis technique. The book also examines the benefits of each nanotechnology technique with a stress on probable future avenues of research.

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Biological Treatment Process in Drinking Water

Shraddha Gautam

About the Author

Shraddha Gautam is an accomplished Sr. Scientist, at Advancells, with 16 years of onsite experience, mainly in the therapeutic application of regenerative medicine and regulatory support. She has a proven ability to foster technological advancements and quality excellence. She has been a part of India's top most institutions facilitating stem cell research and therapeutic applications and has gained extensive experience in the field of stem cell biology, its technological advancements and clinical implementation. She has acquired in-depth understanding of regulatory parameters required to be fulfilled for smooth implementation of science in clinical practice. Embracing the core values of integrity, growth and compassion; Shraddha is continuing her contributions to the field of stem cell technology and cellular therapies by presenting many research publications in renowned medical journals.

Over the past two decades, the awareness and concept of wastewater treatment processes have progressed extensively. Wastewater treatment processes have developed from empirically-based methods to multidisciplinary approaches embracing microbiology, chemistry, bioprocess and physical engineering, and applied mathematics. Many of these developments have ripened to the extent that they have been collated into mathematical simulation models with computers. This book provides a brief overview of the basics of biological water treatment processes along with the description of mechanisms for modeling and integrating biological stages into different industrial processes.

The book essentially covers the physical, biological and chemical basics, including microbial metabolism, wastewater characteristics, wastewater treatment processes (including aerobic and anaerobic treatment processes). It also includes detailed information on membrane technology, micropollutants' removal, activated sludge processes, membrane bioreactors (MBRs) and the evaluation and selection of different aeration systems.

This book is equally important for students and teachers in the field of water treatment technologies. Moreover, this book can be regarded a ready reference for engineers, microbiologists, chemists, environmental officers, consultants and agencies in the field of water treatment.

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Understanding Medical Devices: An Introduction to the Medical Device Industry

Shalinee Naidoo

About the Author

Shalinee Naidoo obtained her Master of Science degree cum laude in Microbiology from The University of KwaZulu-Natal, Durban, South Africa in 2014. Her research interests lie in Environmental Microbiology and water management. She has been involved in a range of research projects funded by The Water Research Commission and The Medical Research Council of South Africa. She is currently a member of the Golden Key International Honour Society and a recipient of numerous scholarship programs including the Erasmus Mundus SAPIENT program between Europe and South Africa. She has spent time teaching Chemistry and English to children in Asia and is currently the founder of Scientist's Sanctuary, an online science communication company specialising in science writing and designing.

Understanding Medical Devices: An introduction to the medical device industry throws light on the meaning of medical devices and the effects that the global trends have on their usage and demand. It informs about the research that is aimed at improving the medical devices and the various solutions to overcome the barriers in the choosing of medical devices. The book makes the readers understand the various guidelines for medical device donations and throws light on the importance of public health in this sector. Also discussed in the book are the examples of various medical devices, the essential principles of safety and performance, the use of standards by the regulatory bodies, the various phases of medical device development, the responsible entity for the medical devices and the way the medical device industry has globalized.

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Biogas: From Waste to Fuel

Navodita Bhatnagar

About the Editor

Navodita Bhatnagar finished her masters in technology and currently pursuing her PhD in environmental sciences from Institute of Technology, Carlow, Ireland. She's a keen enthusiast of environment protection and management. An alumnus of Indo-German centre for sustainability which is essentially a collaborative interface to gather scientists in the field of environment sciences to come together and work for the common cause which is environment protection.

Biogas- from waste to fuel makes the readers aware about the process of anaerobic digestion and explains the ways in which the waste is converted to biogas and how further it is upgraded to biomethane. It informs the ways in which the algae is used for biogas production and discusses the impact of biogas technology. The book discusses about the optimization of biogas production in the developing countries and explains what methanogens mean. Also discussed in the book are the strategies for the enhancement of biogas production for second generation lignocellulosic resources and the opportunities and challenges for the industrial application of combined production of biogas and bioethanol. It also provides the meaning of biomethane and elaborates on the various process disturbances in agricultural biogas production, further discussing the various perspectives of biogas conversion into bio-CNG for use as a fuel in automobiles.

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Introduction to Modern Instrumentation Methods and Techniques

Sachchidanand Shukla

About the Author

Sachchidanand Shukla, is presently working as Professor, Department of Physics & Electronics, Dr. RamManohar Lohia Avadh University, Ayodhya, UP, India. He did his Masters in Physics (Electronics) in 1988 and Ph.D. in 1992 from the same university. Dr. Shukla holds 27 years experience of teaching M.Sc. (Physics) and M.Sc. (Electronics) students and 3 years experience of teaching B.Tech., MCA and B.Sc. (Electronics) students. He has published 85 research papers in peer-reviewed/ indexed journals of International/National repute & conference proceedings and 02 books. In his supervision 14 research scholars have been awarded Ph.D. degree. In addition to it he is the recipient of Best Scientist National Award (2018) of IRDP Group of Journals, Chennai and Maatee Ratan Samman (2017). He has also been selected as Fellow of IACSIT (International Association of Computer Science and Information Technology, Singapore) and Associate Fellow of IAPS (International Academy of Physical Sciences) in 2018. In view of Dr. Shukla's academic achievements his employer institution, Dr. RamManohar Lohia Avadh University, has conferred upon him the 'Certificate of Appreciation' in 2018. Besides having a wide exposure to various key positions of University administration like Pro Vice Chancellor, Registrar, Director College Development Council (CDC), Coordinator UGC and RUSA, Head of Physics Department etc, Dr. Shukla has membership of 08 academic bodies of international repute. To name a few are ISCA (The Indian Science Congress Association, Kolkata, India), IETE (The Institution of Electronics and Telecommunication Engineers, New Delhi, India), NASI (The National Academy of Sciences, India, Allahabad, India), IAPS (International Academy of Physical Sciences, Allahabad, India) and SCIEI (Science and Engineering Institute, Hong Kong, SAR of China). In addition, he is also gracing the Editorial Boards of 04 international journals IJAREEIE (International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering), APM (Applied Physics & Mathematics), JUSPS (Journal of Ultra Scientist of Physical Sciences) and IRJ (International Researcher's Journal) and the board of reviewer of IRJECE (International Journal of Electronics & Communication Engineering)."

Modern Instrumentation Methods and Techniques is a book which aims to discuss the instrumentation methods or techniques which are used for the purpose of analysis. This book includes the classification of instrumentation and fundamental function of the techniques. This book provides the readers with a detailed description about the mass spectrometry and the experimental methods which are used for optical spectroscopy. There are certain surface analysis techniques which are highlighted in this book. The insights of some topics have been provided to the readers in the second half of this book which includes nuclear magnetic resonance spectroscopy, UV/visible spectrophotometry and potentiometric analysis. The book is concluded with certain description about the infrared spectroscopy.

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Creative Design of Mechanical Devices

Nelson Bolívar

About the Editor

Nelson Bolívar has a Ph.D. in physics from the University of Lorraine in France finished in 2014. His expertise is in quantum systems and condensed matter. His interest includes spintronic devices and correspondences between general relativity and condensed matter. He is currently an associate professor at the Central University of Venezuela

Creative Design of Mechanical Devices deals with the fundamental concepts of mechanical design and engineering. It includes the basic mechanism involved in the designing of mechanical devices and certain motion control systems. It provides the reader with the fundamental knowledge of mechanical design and engineering so as to analyze the basic mechanisms involved in mechanical devices and the applications of mems technology and electromechanical robotics. This book also discusses about robotic mechanical systems and microelectromechanical systems, applications of electromechanical robotics in forestry and agriculture, current trends and applications of mems technology in automotive industry and trends in the automatic control in aerospace.

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Modern Techniques of Coating and Drying in Surface Engineering

Maria Emilova Velinova

About the Editor

Maria Velinova is Ph.D. holder in Quantum chemistry at the University of Sofia since April 2012. Her major research experience is in the field of Computational Chemistry, especially in statistical mechanics methods applied to different sorts of biomolecules. Member of the Laboratory of Quantum and Computational Chemistry at the University of Sofia.

Modern Techniques of Coating and Drying in Surface Engineering takes into account the processes of coating and drying, and the surface defects involved in coating. It also comprises preparation of feed for the process of coating and the concept of roll coating. It provides the reader with the fundamental notion of advanced techniques applied in the process of coating and drying in the field of surface engineering so as to analyze the surface defects involved in these processes, preparation of feed for coating process and advantages of using dry coating metallic powder mixtures in drying processes. This book also discusses about experiment research on hot-rolling processing of non-smooth pit surface bioinspired superhydrophobic surfaces, fabricated through simple and scalable roll-to-roll processing, quality of electroless ni-p (nickel-phosphorus) coatings applied in oil production equipment with salinity, laser alloying advantages by dry coating metallic powder mixtures with SiOx nanoparticles and low-temperature, dry transfer-printing of a patterned graphene monolayer.

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Energy in Agroecosystem

Quan Cui

About the Editor

Quan Cui obtained her PhD from Beijing Normal University in 2015. She worked as environmental impact assessment engineer for years. Aiming at linking science to policy, her study interest spans from ecosystem modeling to water resources management. She published peer-reviewed articles about using machine learning models in inflow forecasting, CO2 management and watershed ecosystem health assessment.

Energy in Agroecosystem takes into account the presence of energy in the agroecosystem along with its utilization. It consists of models of hybrid decomposition-reconfiguration, concept and designing of an energy system and an optimization method for local consumption of photovoltaic power. It provides the reader with basic insights of the energy in agroecosystem and its efficient use so as to understand the concept and designing of energy system completely based on the renewable sources of sustainable agriculture and the impacts of biofuels on the world food supply. This book also discusses about total-factor energy efficiency in china's agricultural sector, testing for environmental kuznets curve in the EU agricultural sector through an eco-(in)efficiency index, diesel consumption of agriculture in china, biofuel impacts on world food supply: use of fossil fuel, land and water resources and agricultural energy demand modeling in Iran.

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Biotechnology for Biofuels

Prerna Pandey

About the Editor

Dr Prerna Pandey, a biotechnologist with several years of wet lab research experience, has worked as a senior research fellow at International Center for Genetic Engineering and Biotechnology, New Delhi. Her field of research in PhD included isolation and molecular characterization of Geminiviruses, genome sequencing, gene annotation, as well as gene silencing using the RNA interference technology. She has published papers in peer-reviewed journals in the field and has submitted a number of annotated Geminiviral genome sequences in the GenBank, including two novel ones. Prerna has also completed her editing and proof-reading courses from SIEP, UK and now works as a freelance scientific editor, writer and a subject matter expert. She has edited and co-authored several books on a range of topics in Life-Sciences. When Prerna is not busy with her assignments, she loves visiting historical places.

Biotechnology for Biofuels discusses the basic concept of biofuels along with its chemistry as well as classification. It also includes four different generation of biofuels such as first, second and third generation biofuels. This book also discusses about use of biofuels for various drives, advantages and disadvantages of biofuels, applications of biotechnology to renewable fuel production and future of bio fuels in fuel production, it also provides the reader with the fundamental notion of biofuels and its major classification in order to understand the application of biofuels in our daily lives along with their advantages and disadvantages.

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Scientific Principles and Technique of Optical Fabrication Processes

Maria Emilova Velinova

About the Editor

Maria Velinova is Ph.D. holder in Quantum chemistry at the University of Sofia since April 2012. Her major research experience is in the field of Computational Chemistry, especially in statistical mechanics methods applied to different sorts of biomolecules. Member of the Laboratory of Quantum and Computational Chemistry at the University of Sofia.

Scientific Principles and Technique of Optical Fabrication Processes deals with the scientific principles involved in the process of optical fabrication. It includes design and fabrication of fiber-optic nanopores for optical sensing, development of materials for next generation optical fiber and research progress of optical fabrication and surface-microstructure modification of sic. This book also discusses about effects of process parameters on material removal in vibration-assisted polishing of micro-optic mold, a review on methods for detection of subsurface damage, evaluation of the surface roughness based on acoustic emission signals in robot assisted polishing, laser damage resistance of polystyrene opal photonic crystals and impact of the polishing suspension concentration on laser damage of classically manufactured and plasma post-processed zinc crown glass surfaces.

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Materials and Mechanics for Electrochemical Energy Conversion

Lokesh Pandey

About the Author

Lokesh Pandey is currently pursuing his PhD in Mechanical Engineering from Uttarakhand Technical University, India, where he also completed his M.Tech in Thermal Engineering. He has more than 3 years teaching experience as a Faculty for Mechanical Engineering. He has published articles in reputed Journals and has also chaired many conferences and workshops.

Materials and Mechanics for Electrochemical Energy Conversion discusses the fundamental mechanics of electrochemical energy conversion and different technologies related to it. It also includes the development and conversion technologies of electrochemical energy. It provides the reader with the concept of electrochemical energy conversion so as to understand the technologies involved in the conversion process, storage devices and nanomaterials involved and the application of photo-electrochemical cells and ionic liquid electrochemical energy storage and conversion. This book also discusses about storage systems of electrochemical energy and lithium ion batteries, electrochemical energy conversion in lead-acid batteries, nanostructured materials for electrochemical energy conversion and storage devices, electrochemical energy conversion in solid oxide fuel cells and photo-electrochemical cell and its applications in optoelectronics.

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Introduction to Chemical Thermodynamics

Rose Marie O. Mendoza

About the Author

Dr. Rose obtained her PhD in Chemical Engineering from the University of the Philippines-Diliman in 2013. She is also a Professor in the Graduate School Department under the Master of Engineering Program at Adamson University since 2006, and is a Visiting Research Fellow at the Department of Environmental Engineering and Science, and the Department of Environmental Resource Management in Chia Nan University of Pharmacy and Science, Tainan Taiwan since 2010. She is now taking up her Post

Doctorate Degree in Green Power: Hydrogen Generation and Fuel Cell Development at the University of Philippines-Diliman under the Department of Mining, Metallurgy and Materials Engineering and the University of California, Merced, USA under the Department of Mechanical Engineering.

Introduction to Chemical thermodynamics is a book which introduces the concept of thermodynamics including the history, the laws, chemical thermodynamics and its origin and principles of chemical thermodynamics. The laws and the concept of chemical energy in the chemical thermodynamics have been discussed in this book. This book aims to provide insights about the thermodynamics equilibrium, the thermodynamics of chemical mixtures and the biological systems with respect to chemical thermodynamics to the readers. This book provides description about the application of chemical thermodynamics and the future of chemical engineering in relation to chemical thermodynamics.

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Bio-Based Plastics: Materials and Applications

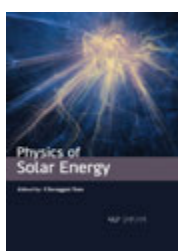
Navodita Bhatnagar

About the Editor

Navodita Bhatnagar finished her masters in technology and currently pursuing her PhD in environmental sciences from Institute of Technology, Carlow, Ireland. She's a keen enthusiast of environment protection and management. An alumnus of Indo-German centre for sustainability which is essentially a collaborative interface to gather scientists in the field of environment sciences to come together and work for the common cause which is environment protection.

Bio-Based Plastics Materials and Applications gives a detailed insight on the various applications and uses of bio-based plastics highlighting the significance of such materials for the future use, looking at and realizing the relevance of bio-materials in the future due to the adverse effects of the materials currently in use. It provides the readers with the required information on the bio-based plastics and the related aspects on the importance of such plastics in the present world. This book also discusses about introduction to bio-based plastics, plastics made of starch, cellulose acetate and its application, chitin and chitosan, arboform and its processing and lactic acids and lipids.

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Physics of Solar Energy

Chenggui Sun

About the Editor

Dr. Chenggui Sun obtained his Ph.D. degree in Chemical Engineering from the University of Waterloo, a public research university with a main campus in Waterloo, Ontario, Canada. His academic background is in the area of nanotechnology and membrane technology, which is at the interface between Chemical Engineering and Environmental Engineering. Dr. Sun enjoys the challenge of combining technology, engineering, and business expertise to contribute to organizational development in the context of a more sustainable, healthier world. He has proven ability to understand

client needs and perspectives in order to formulate and implement strategic plans, and known networking and collaboration skills with a commitment to fostering growth in others. Dr. Sun is also reputable for approaching tasks with creativity, integrity, and drive to inspire cooperation and exceed expectations.

Physics of Solar Energy discusses the fundamental concept of solar energy, solar cells and nano fluids. It also includes the technologies used for the conversion of solar to fuels and performance assessment of nanofluids in the solar energy and thermal properties of carbon black aqueous nano fluids for solar absorption. This book also discusses about ab initio design of nanostructures for solar energy conversion, design of inp nanowires for maximal solar energy harvesting, optical simulations of p3ht/si nanowire array hybrid solar cells, dual effect of tio2 and co3o4 co-semiconductors and nano-sensitizer on dye-sensitized solar cell performance and spectrum splitting for efficient utilization of solar radiation: a novel photovoltaic-thermoelectric power generation system. It also provides the reader with the fundamental insights of solar energy and its conversion to fuels so as to get better understanding of designing nanostructures for the conversion of solar energy and the effect of external applied electric field on the thermodynamic efficiency of the silicon solar cell and calcination temperature on the properties of czts absorber layer.

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Sustainable Manufacturing

Harinirina Randrianarisoa

About the Editor

Hari Randrianarisoa obtained his Ph.D from Institute of Electronics, Microelectronics and Nanotechnology (IEMN) of the University of Science and Technology – Lille (France). His thesis focused on designing and manufacturing of thermal micro sensors. His interests span from on renewable energy especially solar energy. He has a strong knowledge in technology transfer field. He is currently working as a Business advisor for economic development organization in Québec City and as a consultant Scientist advisor.

Sustainable Manufacturing takes into account the process of sustainable manufacturing along with modeling and tactics. It includes the application of nanotechnology for sustainable manufacturing and the severe challenges involved in sustainable manufacturing. It provides the reader with insights of sustainable manufacturing in order to understand the importance of sustainable manufacturing for global value creation, to analyze the issues and challenges involved in manufacturing and the future prospects of the sustainable manufacturing. This book also discusses about solution and execution perspective of sustainable manufacturing, sustainable manufacturing for global value creation, improvements in technology used for sustainable manufacturing and future aspects of sustainable manufacturing.

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Zero Waste Engineering

Navodita Bhatnagar

About the Editor

Navodita Bhatnagar finished her masters in technology and currently pursuing her PhD in environmental sciences from Institute of Technology, Carlow, Ireland. She's a keen enthusiast of environment protection and management. An alumnus of Indo-German centre for sustainability which is essentially a collaborative interface to gather scientists in the field of environment sciences to come together and work for the common cause which is environment protection.

Zero Waste Engineering discusses the basic concept of zero waste, ways to achieve zero waste, illegal dumpsites and its effects. It includes different wastes and the environmental problem associated with them. This book also discusses about the zero-waste engineering and its modelling methods, producer responsibility, the way the zero waste benefits our environment, zero waste benefits our economy. This chapter also provides the reader with insights on reasons for implementing zero waste engineering. The various developments in zero waste, the earliest initiatives in it and other related specific innovations in other countries have also been discussed. It also talks about waste to energy technologies. The readers can learn about the best waste management practices and innovations across the globe. The various sustainable technologies for zero waste have also been discussed. The various challenges and opportunities in zero waste management like moving the cities towards complete zero waste management have also been mentioned.

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Nuclear Power and Sustainable Development

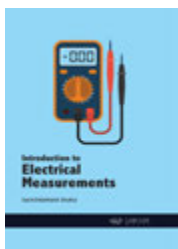
Mulmudi Hemant Kumar

About the Editor

Hemant obtained his Ph.D from Nanyang Technological University, Singapore in 2014. His interests span from material synthesis via solution processed methods to its application in energy harvesting devices such as photovoltaics and water splitting. He is currently working as a research fellow at the Australian national university on silicon/perovskite solar cells.

Nuclear Power and Sustainable Development introduces the subject of nuclear power to the readers and takes them through the environmental aspect of it. It explains the relation of human health to nuclear power and the challenges and opportunities posed by nuclear power. Also discussed in the book is the relation between nuclear power and sustainable development, the ethics that are involved with the use of nuclear power and the various fuel technologies that are emerging and the policies related to them. The readers are also informed about the process of waste management and recycling.

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Introduction to Electrical Measurements

Sachchidanand Shukla

About the Author

Sachchidanand Shukla, is presently working as Professor, Department of Physics & Electronics, Dr. RamManohar Lohia Avadh University, Ayodhya, UP, India. He did his Masters in Physics (Electronics) in 1988 and Ph.D. in 1992 from the same university. Dr. Shukla holds 27 years experience of teaching M.Sc. (Physics) and M.Sc. (Electronics) students and 3 years experience of teaching B.Tech., MCA and B.Sc. (Electronics) students. He has published 85 research papers in peer-reviewed/ indexed journals of

International/National repute & conference proceedings and 02 books. In his supervision 14 research scholars have been awarded Ph.D. degree. In addition to it he is the recipient of Best Scientist National Award (2018) of IRDP Group of Journals, Chennai and Maatee Ratan Samman (2017). He has also been selected as Fellow of IACSIT (International Association of Computer Science and Information Technology, Singapore) and Associate Fellow of IAPS (International Academy of Physical Sciences) in 2018. In view of Dr. Shukla's academic achievements his employer institution, Dr. RamManohar Lohia Avadh University, has conferred upon him the 'Certificate of Appreciation' in 2018. Besides having a wide exposure to various key positions of University administration like Pro Vice Chancellor, Registrar, Director College Development Council (CDC), Coordinator UGC and RUSA, Head of Physics Department etc, Dr. Shukla has membership of 08 academic bodies of international repute. To name a few are ISCA (The Indian Science Congress Association, Kolkata, India), IETE (The Institution of Electronics and Telecommunication Engineers, New Delhi, India), NASI (The National Academy of Sciences, India, Allahabad, India), IAPS (International Academy of Physical Sciences, Allahabad, India) and SCIEI (Science and Engineering Institute, Hong Kong, SAR of China). In addition, he is also gracing the Editorial Boards of 04 international journals IJAREEIE (International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering), APM (Applied Physics & Mathematics), JUSPS (Journal of Ultra Scientist of Physical Sciences) and IRI (International Researcher's Journal) and the board of reviewer of IRIECE (International Journal of Electronics & Communication Engineering). "

Introduction to Electrical Measurements discusses the basic concept of the measurement systems along with the principles of electrical measurements. It includes the notion of instrumentation, electronic circuits, instrument transformers, AC bridges, and energy and power measurements. This book also discusses about the magnetic force and, analog and digital recorders. It provides the reader with the insights of different aspects of electrical measurements so as to understand notion of electrical measurements and learn about the transformers as well as recorders.

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Green Nanotechnology

Mulmudi Hemant Kumar

About the Editor

Hemant obtained his PhD from Nanyang Technological University, Singapore in 2014. His interests span from material synthesis via solution processed methods to its application in energy harvesting devices such as photovoltaics and water splitting. He is currently working as a research fellow at the Australian national university on silicon/perovskite solar cells.

Green Nanotechnology discusses the fundamental field of green nanotechnology and the major challenges associated with it. It also includes green synthesis, characterization and catalytic activity of natural bentonite-supported copper nanoparticles and stem cell tracking by using iron oxide nanoparticles. This book also discusses about honey mediated green synthesis of nanoparticles as new era of safe nanotechnology, green preparation and spectroscopic characterization of plasmonic silver nanoparticles using fruits as reducing agents, epigallocatechin gallate nano-delivery systems for cancer therapy, the current trends in the green syntheses of titanium oxide nanoparticles and their applications, coFe₂O₄/carbon nanotube aerogels as high performance anodes for lithium ion batteries and medical applications of nanoparticles biosynthesized by fungi and yeast.

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Nanotechnology Environmental Health and Safety

Abhishek Gupta

About the Editor

Dr. Abhishek Gupta is currently a National Post-Doctoral Fellow (NPDF) at All India Institute of Medical Sciences (AIIMS), New Delhi. He has completed their Doctoral Degree (Ph.D) from School of Basic Sciences, Indian Institute of Technology (IIT) Mandi HP India. He obtained his B.Sc. in Biological Sciences from MJP R University Bareilly India and M.Sc. Biotechnology from School of Biotechnology, Devi Ahilya University, Indore India. His recent research is focused on carbon nanoparticles (C-dots) for toxic metal and biomolecule sensing system. He has more than 15 publications in reputed international journal (Nano Letter, Chem Comm, JPC Letter, ACS Applied Materials and Interfaces, Nature Scientific Reports and etc.) with average Impact factor > 5.50.

Nanotechnology Environmental Health and Safety informs the readers about the quantitative analysis and the safety issues of nanotechnology in the healthcare research. It throws light on the relation between nanotechnology and the occupational health and enumerates the various risks and benefits for medical diagnosis and treatment. Also discussed in the book nanotechnology-related environment, health, and safety research, the ergonomic challenges for nanotechnology safety and health practices, the ethical and scientific issues of nanotechnology in the workplace, management of nanomaterials safety in research environment, risk assessment and risk management of nanomaterials in the workplace and the prospects of using nanotechnology for food preservation, safety, and security.

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Biofabrication

Shiv Sanjeevi

About the Editor

Shiv Sanjeevi Sripathi secured second rank in Mumbai University and first rank in his college at his undergrad level and in his college during his Masters and has worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai, following which he was a Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in E. coli & M. smegmatis. This was followed by a stint as a Research and Development Executive at Transasia Biomedicals, Mumbai where he worked on patent writing and Immunoassays from 2011 till 2013. In 2013, he entered the teaching field where he has been tutoring biology and chemistry to the students of 11th and 12th grades along with English grammar and communication skills to people of all age groups.

Biofabrication discusses about the basic concept of regenerating tissues, the approaches to the concept of Biofabrication. This book provides information about the construction of tissues and includes more examples as well as case studies in the fabricating tissues. The introduction of the three-dimensional bioprinting has been mentioned in this book which includes possibilities, challenges and future aspects of bioprinting. This book discusses functional skin grafts and the biodegradable scaffold for bone tissue engineering including the design, materials and mechanobiology. There is a strategy for tissue engineering and medical devices which refers to the fabrication of the polymeric biomaterials which have been mentioned in the book. This book provides readers with the insights on bioprinting of vascularized tissue scaffolds and the complex particulate biomaterials which are immunostimulant-delivery platforms.

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Emerging Nanotechnologies in Food Science

Abhishek Gupta

About the Editor

Dr. Abhishek Gupta is currently a National Post-Doctoral Fellow (NPDF) at All India Institute of Medical Sciences (AIIMS), New Delhi. He has completed their Doctoral Degree (Ph.D) from School of Basic Sciences, Indian Institute of Technology (IIT) Mandi HP India. He obtained his B.Sc. in Biological Sciences from MJP R University Bareilly India and M.Sc. Biotechnology from School of Biotechnology, Devi Ahilya University, Indore India. His recent research is focused on carbon nanoparticles (C-dots) for toxic metal and biomolecule sensing system. He has more than 15 publications in reputed international journal (Nano Letter, Chem Comm, JPC Letter, ACS Applied Materials and Interfaces, Nature Scientific Reports and etc.) with average Impact factor > 5.50.

Emerging Nanotechnologies in Food Sciences gives an overview of nanotechnology in food science explaining the preparative methods of practical applications and throws light on the adoption of nanotechnology as a new approach in the food packaging. It explores the various possibilities for nanotechnology in food packaging and discusses the challenges related to them. Also discussed in the book are the current demands for approved liposome nanoparticles, the exploration of safety of nanotechnology in food, application of nanotechnology in food science, market overview of food packaging industry and the various prospects of such a technology, to provide basic insights on the subject matter to the readers.

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Fractal Analysis

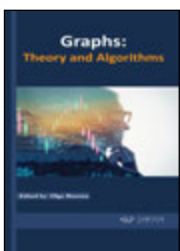
Olga Moreira

About the Editor

Olga Moreira is a Ph.D. in Astrophysics and B.Sc. in Physics and Applied Mathematics. She is an experienced technical writer and researcher which former fellowships include postgraduate positions at two of the most renowned European institutions in the fields of Astrophysics and Space Science (the European Southern Observatory, and the European Space Agency). Presently, she is an independent scientist working on projects involving machine learning and neural networks research as well as peer-reviewing and edition of academic books.

The book "Fractal Analysis" is a collection of contemporaneous articles aims to guide the reader through the world of fractals. A world of computer-generated self-similar patterns that can capture the intricacy of natural structure such as snowflakes, fern leaves, and tree branching. A world that is not only aesthetically pleasing but that is also at the basis of new technologies such as fractal antennas included in every mobile phone. The book is centred on simulation models as well as on the implementation of different methods of measuring the spatial and temporal characteristics of fractal patterns. For instance, box-counting based methods that can be used to determine the fractal dimension of the edges of the Saturn's rings, forested landscapes, brain imaging data, and occurrence of words in text. It also includes an overview of fractal theory concepts, from self-similarity to the complexity of fractal networks.

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Graphs: Theory and Algorithms

Olga Moreira

About the Editor

Olga Moreira is a Ph.D. in Astrophysics and B.Sc. in Physics and Applied Mathematics. She is an experienced technical writer and researcher which former fellowships include postgraduate positions at two of the most renowned European institutions in the fields of Astrophysics and Space Science (the European Southern Observatory, and the European Space Agency). Presently, she is an independent scientist working on projects involving machine learning and neural networks research as well as peer-reviewing and edition of academic books.

The book "Graphs: Theory and Algorithm" is a collection of modern articles features several graph-based methods and algorithms. It also covers important theoretical aspects pertaining to matrix representations of graphs such as the Laplacian and distance matrices which can be used for solving problems such that of the Hamiltonian and shortest path, as well as in finding minimum spanning trees and matching patterns.

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Handbook of Mixture Analysis

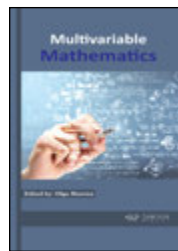
Olga Moreira

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The book "Handbook of Mixture Analysis" is a collection of peer-reviewed articles featuring several statistical data analysis methods based on mixture models and their applications in scientific domains such as data mining, machine learning, physics, mechanical engineering, signal processing, economics, cosmology, computational medicine, and more. This book covers several aspects of mixture analysis and variety of models such as the Gaussian Mixture Model (GMM), Dirichlet processes Mixture Model (DMM), Poisson Mixture Regression Model (PMRM), Hierarchical Gamma Mixture Model (HGMM), Quadratic Mixture Model (QMM), K-fold Mixture Model (KMM), Finite Mixture Model (FMM), and Multi-partitions Subspace Mixture Model (M-SMM).

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Multivariable Mathematics

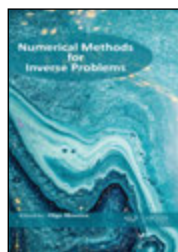
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The book "Multivariable Mathematics" is a collection of contemporaneous articles combines several topics of multivariate mathematics, from extensions of uni-variate methodologies to practical applications in several research areas of multivariate calculus, statistical analysis, time series, polynomial geometry and differential topology. It navigates through several applications in numerous scientific domains such as physics, economics, data science, network science, and more.

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Numerical Methods for Inverse Problems

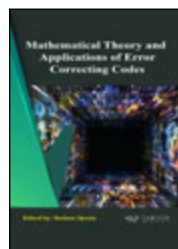
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The book "Numerical Methods for Inverse Problems" consists of contemporaneous articles featuring not only several well-known inverse problems used in the inference of many physical and engineering systems such as that of the partial differential equations but also the statistical and imaging inverse problems. It includes a variety of numerical methods for solving inverse problems such as that of the Tikhonov regularization; finite differences; and orthogonal decomposition; as well as those based on Bayesian inference, artificial neural networks, and quantum annealing.

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Mathematical Theory and Applications of Error Correcting Codes

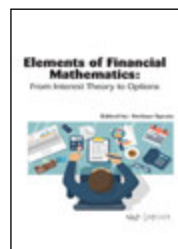
Stefano Spezia

About the Editor

Stefano Spezia is Ph.D. holder in Applied Physics at the University of Palermo since April 2012. His major research experience is in noise-induced effects in nonlinear systems, especially in the fields of modeling of complex biological systems and simulation of semiconductor spintronic devices. Associate member of the Italian Physical Society and European Physical Society.

Mathematical Theory and Applications of Error-Correcting Codes book presents those concepts of mathematics that continue to reveal essentials in making reliable the data exchange between systems and their parts. For such reason, its applications range over many areas, including physical science, engineering, and medicine. In particular, it treats of hard and soft-decision decoding, of cyclic and quasi-cyclic codes, of Reed-Solomon codes, of low density parity check codes, and quantum error-correcting codes.

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Elements of Financial Mathematics: From Interest Theory to Options

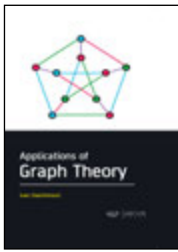
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This book reviews the recent studies on the origin and evolution of atomic matter in the Universe, considering early Universe, interstellar regions, and the solar system. In particular, it focuses on the study of the Universe by spectroscopic observations, it examines the chemical history of the very early universe to the formation of first atoms, it treats of the creation of the higher elements in the heart of the stars, and it reviews the interstellar chemistry from the viewpoints of theory, experiments, models and observations. Moreover, it provides some examples of laboratory-based astrochemistry, and at last, it focuses on the evolutionary history of the moon and the inner solar system, and their Silica-rich volcanism.

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Applications of Graph Theory

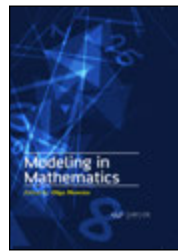
Ivan Stanimirović

About the Author

Ivan Stanimirović gained his PhD from University of Ni, Serbia in 2013. His work spans from multi-objective optimization methods to applications of generalized matrix inverses in areas such as image processing and computer graphics and visualisations. He is currently working as an Assistant professor at Faculty of Sciences and Mathematics at University of Ni on computing generalized matrix inverses and its applications.

Applications of Graph Theory gives an introduction on the subject of graph theory and the applications related to it. It explains the various computational complexities and the methodologies to solve the problems using NP/P graphs. Also discussed in the book are the theoretical applications of the graphs, the role of graphs in education, the application of graph theory in the recognition of language and the various special classes into which graphs and its applications are classified. The book also gives some conclusive remarks on the subject.

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Modeling in Mathematics

Olga Moreira

About the Editor

Olga Moreira obtained her Ph.D. in Astrophysics from the University of Liege (Belgium) in 2010, her BSc. in Physics and Applied Mathematics from the University of Porto (Portugal). Her post-graduate travels and international collaborations with the European Space Agency (ESA) and European Southern Observatory (ESO) led to great personal and professional growth as a scientist. Currently, she is working as an independent researcher, technical writer, and editor in the fields of Mathematics, Physics, Astronomy and Astrophysics.

Modeling in Mathematics deals with the concept of modeling in the field of mathematics. It includes a statistical and spectral model for representing noisy sounds with short-time sinusoids, robust Bayesian regularized estimation based on regression model and robust quadratic regression and its application to energy-growth consumption problem. This book also discusses about intuitionistic fuzzy weighted linear regression model with fuzzy entropy under linear restrictions, a hybrid approach of stepwise regression, logistic regression, support vector machine, and decision tree for forecasting fraudulent financial statements, dynamical analysis in explicit continuous iteration algorithm and its applications, dynamical analysis and chaos control of a discrete sis epidemic model, electricity market stochastic dynamic model and its mean stability analysis and using artificial neural networks to predict direct solar irradiation.

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Fundamentals of Matrix Computations

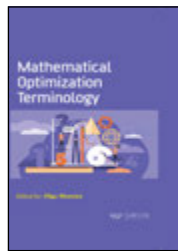
Olga Moreira

About the Editor

Olga Moreira obtained her Ph.D. in Astrophysics from the University of Liege (Belgium) in 2010, her BSc. in Physics and Applied Mathematics from the University of Porto (Portugal). Her post-graduate travels and international collaborations with the European Space Agency (ESA) and European Southern Observatory (ESO) led to great personal and professional growth as a scientist. Currently, she is working as an independent researcher, technical writer, and editor in the fields of Mathematics, Physics, Astronomy and Astrophysics.

Fundamentals of Matrix Computations deals with the concept of matrix computations, a technique of singular value homogenization and its application in medical therapy. It consists of modern iterative methods to generalize the issues associated with singular-value homogenization. It provides the reader with the understanding of matrix computations and preconditioning technique of singular value homogenization so as to analyze its potential applications in the field of medical therapy and the use of efficient numerical methods so as to solve the problems linked with nonlinear singular boundary value by using improved differential transform method. This book also discusses about blind distributed estimation algorithms for adaptive networks, a dit-based approximate eigenvalue and singular value decomposition of polynomial matrices, sparse signal subspace decomposition based on adaptive over-complete dictionary, lower bounds for the low-rank matrix approximation and a semi-smoothing augmented lagrange multiplier algorithm for low-rank toeplitz matrix completion.

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Mathematical Optimization Terminology

Olga Moreira

About the Editor

Olga Moreira obtained her Ph.D. in Astrophysics from the University of Liege (Belgium) in 2010, her BSc. in Physics and Applied Mathematics from the University of Porto (Portugal). Her post-graduate travels and international collaborations with the European Space Agency (ESA) and European Southern Observatory (ESO) led to great personal and professional growth as a scientist. Currently, she is working as an independent researcher, technical writer, and editor in the fields of Mathematics, Physics, Astronomy and Astrophysics.

Mathematical Optimization Terminology takes into account multi-objective method considering the problems related to optimization in case of power distribution systems. It includes a short survey on model-based evolutionary algorithms and study on parameter optimization for support vector regression. This book also discusses about gradient-based cuckoo search for global optimization, a hybrid cuckoo search algorithm, extraction methods for uncertain inference rules by ant colony optimization, a benchmark test suite for evolutionary many-objective optimization, a hybrid SA-MFO algorithm for function optimization and engineering design problems and social group optimization (SGO).

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Correlation and Regression Analysis: Applications for Industrial Organizations

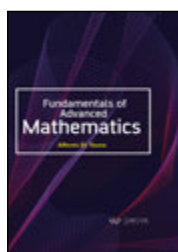
Ivan Stanimirović

About the Author

Ivan Stanimirović gained his PhD from University of Ni, Serbia in 2013. His work spans from multi-objective optimization methods to applications of generalized matrix inverses in areas such as image processing and computer graphics and visualisations. He is currently working as an Assistant professor at Faculty of Sciences and Mathematics at University of Ni on computing generalized matrix inverses and its applications.

Correlation and Regression Analysis: Applications for Industrial Organizations book discusses the important theoretical concepts such as the Amortization System Constant, French System of Price Amortization, comparative analysis of these methods and American System of Amortization which provide a basic understanding of the correlation and regression analysis. The application of these concepts to develop economic and mathematical models in e-business have been explained in detail. The theories and concepts related to mathematical design in e-business, design of organizational structure, microeconomic theory of firm, and fundamental concepts related to banks, financial transactions, and the importance of good relations during inflation have been elucidated. The presentation and analysis of data along with detailed information about macroeconomic variables, different result filters, and the relationship of the macroeconomic variables with the result variables has been described. This book provides a comprehensive understanding about the application of correlation and regression analysis in the industrial organizations.

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Fundamentals of Advanced Mathematics

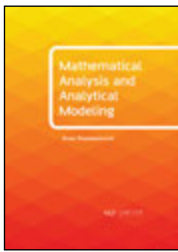
Alberto D. Yazon

About the Author

Dr. Alberto Dolor Yazon is an Associate Professor and Chairperson of Curriculum and Instruction Development and Quality Assurance at the Laguna State Polytechnic University, Philippines. He obtained his Doctor of Philosophy in Mathematics Education at Philippine Normal University, Manila. He authored the published books Learning Guide in Methods of Research, Assessment in Student Learning, and Fundamentals of Advanced Mathematics. His research paper presentation, publication and areas of interest include problem solving, mathematics proficiency, motivation, coping mechanism, self-esteem, self-efficacy, adversity quotient, and assessment of graduate's competencies. He has been a resource person for different topics related to Mathematics, Assessment of Learning, Statistics, and Research. He seats as a panel of examiner and adviser in master's thesis and doctoral dissertation among graduate students. He is also an Accreditor in the Accrediting Agency of Chartered Colleges and Universities in the Philippines, Inc. (AACUP) and had accredited five prestigious State Universities and Colleges (SUCs) in the country. His life's principle is "Passion, commitment, humility, and quality are significant predictors of one's destiny."

Fundamentals of Advanced Mathematics explains the basic fundamentals of mathematics by introducing it to the readers. It further goes on to explain algebra and the basic math related to it and elaborate on the number theory and number system. Also discussed in the book are the relations and functions, the use of proportional logic, the graph theory and the mathematical induction and recursion and the various theorems and logics related to it. The book also delves upon the cardinal system. It gives some solved examples and the questions to be practiced in the later halves of the chapters.

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Mathematical Analysis and Analytical Modeling

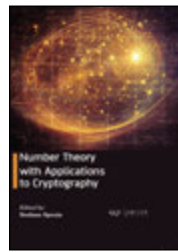
Ivan Stanimirović

About the Author

Ivan Stanimirovic gained his PhD from University of Ni, Serbia in 2013. His work spans from multi-objective optimization methods to applications of generalized matrix inverses in areas such as image processing and computer graphics and visualisations. He is currently working as an Assistant professor at Faculty of Sciences and Mathematics at University of Ni on computing generalized matrix inverses and its applications.

Mathematical Analysis and Analytical Modeling provides the readers with the preliminary knowledge on mathematics and explains them the meaning of normal families. It talks about the iteration functions, fixed points and other kinds of sets in the mathematics. Also discusses in the book is the Baker theorem for the complexity invariant components in the set of Fatou, mathematical analysis of significant transformations, theoretical framework for it, application of analytical functions in educational research, and the methodological framework. The book also gives some concluding remarks on the subject matter.

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Number Theory with Applications to Cryptography

Stefano Spezia

About the Editor

Stefano Spezia is Ph.D. holder in Applied Physics at the University of Palermo since April 2012. His major research experience is in noise-induced effects in nonlinear systems, especially in the fields of modeling of complex biological systems and simulation of semiconductor spintronic devices. Associate member of the Italian Physical Society and European Physical Society.

Number Theory with Applications to Cryptography takes into account the application of number theory in the field of cryptography. It comprises elementary methods of Diophantine equations, the basic theorem of arithmetic and the Riemann Zeta function. This book also discusses about Congruences and their use in mock theta functions, Method of Iterative Sliding Window for Shorter Number of Operations in case of Modular Exponentiation and Scalar Multiplication, Discrete log problem, elliptic curves, matrices and public-key cryptography and Implementation of Pollard Rho over binary fields using Brent Cycle Detection Algorithm. It also provides the reader with the significant insights of number theory to the practice of cryptography in order to understand discrete log problem, matrices, elliptic curves and public-key cryptography and the applications of Fibonacci sequence on continued fractions.

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Advances in Applied Combinatorics

Stefano Spezia

About the Editor

Stefano Spezia is Ph.D. holder in Applied Physics at the University of Palermo since April 2012. His major research experience is in noise-induced effects in nonlinear systems, especially in the fields of modeling of complex biological systems and simulation of semiconductor spintronic devices. Associate member of the Italian Physical Society and European Physical Society.

Advances in Applied Combinatorics talks about the subject of binomial coefficients, permutations, the combinational proofs, the graph theory, derangements, partitions, linear recurrences, graph algorithms and permutation groups, to give a far-fetched insight on applied combinatorics. This book also discusses about the fractional sums and the differences, harmonic numbers and the cubed binomial coefficients, the recursive algorithms, linear recurrences and the fibonacci numbers. The generating functions and the sequence of numbers and polynomials.

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Linear Algebra, Matrix Theory and Applications

Stefano Spezia

About the Editor

Stefano Spezia is Ph.D. holder in Applied Physics at the University of Palermo since April 2012. His major research experience is in noise-induced effects in nonlinear systems, especially in the fields of modeling of complex biological systems and simulation of semiconductor spintronic devices. Associate member of the Italian Physical Society and European Physical Society.

Linear Algebra, Matrix Theory and Applications gives insights into the various aspects related to the matrices including the concepts on vector spaces, least square regression, determinants, eigen values, eigen vectors, positive definite matrices, singular value decomposition and teaches the readers the methods of computation in matrices. This book also discusses about Reduced triangular form of polynomial, Gaussian Elimination-based correlation analysis, Shift-invert diagonalization of spin chains, Fast matrix multiplication, Finding the pth root of principal matrix and Quasi-rational canonical form of a matrix.

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Mathematics Education: History and Research

Stefano Spezia

About the Editor

Stefano Spezia is Ph.D. holder in Applied Physics at the University of Palermo since April 2012. His major research experience is in noise-induced effects in nonlinear systems, especially in the fields of modeling of complex biological systems and simulation of semiconductor spintronic devices. Associate member of the Italian Physical Society and European Physical Society.

Mathematics Education: History and Research takes into account the basic methodology used for the mathematics education in ancient times. It includes the advanced mathematical study and the development of conditional reasoning skills and certain challenges involved in the mathematical cognition. This book also discusses about the cultural diversity and its role in mathematical activities, exploring practices of teachers in teaching mathematics and statistics in kwazulu-natal schools, mathematics teachers' professional identity development in communities of practice, interactive whiteboards in mathematics teaching: a literature review, using technology in elementary mathematics teacher education and using historical perspective in designing discovery learning on integral for undergraduate students.

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General Physics

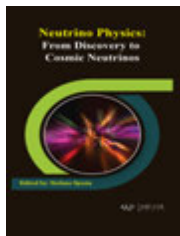
Nelson Bolívar

About the Author

Nelson Bolívar completed his PhD. in physics from the University of Lorraine, France in 2014 and also from the Central University of Venezuela (U.C.V.). His expertise is in condensed matter and applications in quantum field theories. His interest areas are in spintronic devices and correspondences between general relativity and condensed matter as a new modeling method. He is currently an associated professor at the Central University of Venezuela.

This book on the topic of General Physics offers a thorough understanding of basic physical laws and concepts. The illustration of the physical concepts in a reader-friendly way helps the readers implement this conceptual knowledge to a broad variety of everyday problems. This book covers the most important fundamental aspects of classical as well as quantum physics. A vast variety of topics are discussed in this book which include Newton laws of motion, mechanics, statistical mechanics, waves, thermodynamics, etc. Most of the physical laws of laws of nature are demonstrated in the mathematical language. The readers are expected to have fundamental concepts of mathematics in order to completely understand the physical relations.

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Neutrino Physics: From Discovery to Cosmic Neutrinos

Stefano Spezia

About the Editor

Stefano Spezia is Ph.D. holder in Applied Physics at the University of Palermo since April 2012. His major research experience is in noise-induced effects in nonlinear systems, especially in the fields of modeling of complex biological systems and simulation of semiconductor spintronic devices. Associate member of the Italian Physical Society and European Physical Society.

This book reviews the recent achievements in neutrino physics over the last two decades, ranging from the first experiments on nuclear beta-decay, that have brought to its discovery, up to the newest terrestrial experiments and cosmological measurements. In particular, it provides a summary of the properties of neutrinos in and beyond the Standard Model, it treats of the neutrinos masses, of the double beta-decay, and neutrino oscillations, and at last, it focuses on the study of extraterrestrial neutrinos of different origins: atmospheric, solar, and cosmogenic.

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Modern Physics

Olga Moreira

About the Editor

Olga Moreira obtained her Ph.D. in Astrophysics from the University of Liege (Belgium) in 2010, her BSc. in Physics and Applied Mathematics from the University of Porto (Portugal). Her post-graduate travels and international collaborations with the European Space Agency (ESA) and European Southern Observatory (ESO) led to great personal and professional growth as a scientist. Currently, she is working as an independent researcher, technical writer, and editor in the fields of Mathematics, Physics, Astronomy and Astrophysics.

Modern Physics takes into account the fundamentals of quantum mechanics and the current developments in the field of quantum communication. It further includes quantum cryptography for the purpose of security analysis and holographic software for quantum networks. This book also discusses about quantum teleportation through time-shifted ads wormholes, synchronization and stabilization of chaotic dynamics in a quasi-1d bose-einstein condensate, tunable bistability in hybrid bose-einstein condensate optomechanics, light higgs channel of the resonant decay of magnon condensate in superfluid ^3He , non-minimal coupling of the higgs boson to curvature in an inflationary universe, cosmological evolution of the higgs boson's vacuum expectation value, extended higgs sectors in radiative neutrino models, precision cosmology from future lensed gravitational wave and electromagnetic signals, the merger of two compact stars and constraint on reconstructed $f(R)$ gravity models from gravitational waves

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Relativity and Quantum Relativistic Theories

Ivan Stanimirovic, Olivera M. Stanimirovi

About the Authors

Ivan Stanimirovic gained his PhD from University of Ni, Serbia in 2013. His work spans from multi-objective optimization methods to applications of generalized matrix inverses in areas such as image processing and computer graphics and visualisations. He is currently working as an Assistant professor at Faculty of Sciences and Mathematics at University of Ni on computing generalized matrix inverses and its applications.

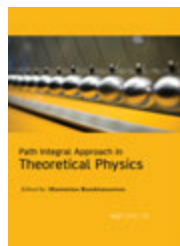
Olivera M. Stanimirovi is currently with the Faculty of Sciences and Mathematics at University of Nis with a degree in mathematics and computer science. After her master's studies, she enrolled in doctoral studies at the Department of Mathematics in Nis as well. She participated in several international congresses, where she published her papers in optimization and applied mathematics.

As one of the greatest advances of the twentieth century in science, quantum mechanics explains the behavior of matter and energy. It states that the elementary particles can behave as particles in a given time and waves in the next or the previous.

The book explains the following two pillars of this theory:

- Particles exchange energy at integer multiples of a minimum possible, denominating, quantum (quantum) of energy.
- The position of the particles are defined by a function that describes the probability that the particle is in that position at that moment.

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Path Integral Approach in Theoretical Physics

Harinirina Randrianarisoa

About the Editor

Hari Randrianarisoa obtained is Ph.D from Institute of Electronics, Microelectronics and Nanotechnology (IEMN) of the University of Science and Technology – Lille (France). His thesis focused for designing and manufacturing of thermal micro sensors. His interests span from on renewable energy especially solar energy. He has a strong knowledge in technology transfer field. He is currently working as a Business advisor for economic development organization in Québec City and as a consultant Scientist advisor.

Path Integral Approach in Theoretical Physics talks about the path integral approaches involved in the field of theoretical physics. It includes pure functions, elliptic feynman integrals, multi-regge kinematics and the scattering equations. This book also discusses about l-functions for meromorphic modular forms and sum rules in conformal field theory, application of path integral for multi-field inflation, variational path-integral approach to back-reactions of composite mesons in the nambu–jona-lasinio model, dual representation for the generating functional of the feynman path-integral and boundary integral method for modelling vibroacoustic energy distributions in uncertain built up structures.

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85	9781774072813	Physics of Solar Energy	Engineering and Technology	2020	Chenggui Sun, University of Waterloo, Waterloo, ON	170	Hardcover
86	9781774072967	Nuclear Power and Sustainable Development	Engineering and Technology	2020	Mulmudi Hemant Kumar, Australian National University, Australia	170	Hardcover
87	9781774073087	General Chemistry	Chemistry	2020	Rainer Roldan Fiscal, Laguna State Polytechnic University, Philippines	95	Hardcover
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91	9781774073230	Introduction to Electrical Measurements	Engineering and Technology	2020	Sachchidanand Shukla, Dr. Ram Manohar Lohia Avadh University, India	95	Hardcover
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93	9781774073360	Green Nanotechnology	Engineering and Technology	2020	Mulmudi Hemant Kumar, Australian National University, Australia	170	Hardcover
94	9781774073391	Chromatography: an invaluable tool in research and the industry	Chemistry	2020	Shiv Sanjeevi, Vaze College, Mumbai India and Prerna Pandey, Banasthali University, India	165	Hardcover
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107	9781774073599	Basic Organic Chemistry	Chemistry	2020	Ramesh Chandra, University of Delhi, India; Snigdha Singh, University of Delhi, India and Aarushi Singh, University of Delhi, India	95	Hardcover
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128	9781773613864	Applied Neural Networks and Soft Computing	Computer and Information Science	2019	Ivan Stanimirović, Faculty of Sciences and Mathematics at University of Niš, Serbia	160	Hardcover
129	9781773613901	Internet & Distributed Systems	Computer and Information Science	2019	JOCELYN O. PADALLAN, Laguna State Polytechnic University, Philippines	160	Hardcover
130	9781773613925	Dyes and Pigments	Chemistry	2019	Ghazala Yaqub, Kinnaird College for Women, Paskistan and Haleema Sadia, University of Gujrat, Pakistan	170	Hardcover
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135	9781773613970	Desalination Sustainability	Engineering and Technology	2019	Chenggui Sun, University of Waterloo, Waterloo, ON	170	Hardcover
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141	9781773614212	Physics of Energy Sources	Physics	2019	Nelson Bolívar, Central University of Venezuela, Venezuela	170	Hardcover
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145	9781773614489	Programming & Software Development	Computer and Information Science	2019	Valmir Doniku, Luigj Gurakuqi University, Faculty of Natural Science, Albania	160	Hardcover
146	9781773614502	Software Services for e-Business	Computer and Information Science	2019	Gerard Prudhomme, University College of London, UK	160	Hardcover
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152	9781773610931	Quantum Dot Photovoltaics	Physics	2019	Nelson Bolívar, Central University of Venezuela, Venezuela	170	Hardcover
153	9781773614663	Handbook of Chemical and Biochemical Technologies	Engineering and Technology	2019	Jurex Cuenca Gallo, East Asia Joint Research Program, Philippines	175	Hardcover
154	9781773611525	Introduction to Process Control	Engineering and Technology	2019	Euan Russano, University of Duisburg Essen, Germany and Elaine Ferreira Avelino, Federal Rural University of Rio de Janeiro, Brazil	170	Hardcover
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162	9781773614854	Biochemical Ecology of Water Pollution	Engineering and Technology	2019	Rose Marie O. Mendoza, University of Philippines, Philippines	165	Hardcover
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164	9781773614908	Nonstandard Problems in General Physics with Solutions	Physics	2019	Lazo M. Manojlović, University of Novi Sad, Serbia	170	Hardcover
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169	9781773615042	Big Data Analytics - Methods and Applications	Computer and Information Science	2019	Jovan Pehceviski, European University, Skopje	160	Hardcover
170	9781773615059	Systems and Software Testing Techniques and Frameworks	Computer and Information Science	2019	Jovan Pehceviski, European University, Skopje	160	Hardcover
171	9781773615066	Performance Evaluation of Cloud Services	Computer and Information Science	2019	Jovan Pehceviski, European University, Skopje	160	Hardcover
172	9781773615073	Application of Biotechnology in Pulp and Paper Processing	Engineering and Technology	2019	Preethi Kartan, University of Leeds, UK	170	Hardcover
173	9781773615080	Advantage and Application of High solid and Multi-phase Bioprocess Engineering	Engineering and Technology	2019	Preethi Kartan, University of Leeds, UK	170	Hardcover
174	9781773615172	Semiconductor Material Technologies	Engineering and Technology	2019	Stefano Spezia, University of Palermo, Italy	170	Hardcover
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178	9781773615219	Femtosecond Physics: Laser-Matter Interaction Theory	Physics	2019	Stefano Spezia, University of Palermo, Italy	170	Hardcover
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180	9781773615387	Current Status of Nano Materials for Multi functional Applications (2 Volumes)	Engineering and Technology	2019	Dr. Aneeya Kumar Samantara, National Institute of Science Education and Research, Bhubaneswar, India and Mr. Satyajit Ratha, Indian Institute of Technology Bhubaneswar, India	250	Hardcover
181	9781773615394	Volume 1: Nano structures for energy storage and conversion and their application as catalysts for photochemistry and sensing	Engineering and Technology	2019	Dr. Aneeya Kumar Samantara, National Institute of Science Education and Research, Bhubaneswar, India and Mr. Satyajit Ratha, Indian Institute of Technology Bhubaneswar, India	175	Hardcover

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182	9781773615400	Volume 2: Nano structures toward Biomedical Application	Engineering and Technology	2019	Dr. Aneeya Kumar Samantara, National Institute of Science Education and Research, Bhubaneswar, India and Mr. Satyajit Ratha, Indian Institute of Technology Bhubaneswar, India	175	Hardcover
183	9781773615417	Essentials and Advances in Geochemistry of Natural Waters	Engineering and Technology	2019	Maria Emilova Velinova, University of Sofia, Bulgaria	170	Hardcover
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198	9781773615615	Applications of Quantum dots	Engineering and Technology	2019	Abhishek Gupta, All India Institute of Medical Sciences (AIIMS), New Delhi India	170	Hardcover
199	9781773615622	Application of Carbon Nano Dots	Engineering and Technology	2019	Abhishek Gupta, All India Institute of Medical Sciences (AIIMS), New Delhi India	170	Hardcover
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233	9781773611006	Handbook of Spintronics	Engineering and Technology	2018	Nelson Bolívar, Central University of Venezuela, Venezuela	160	Hardcover
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668	9781680941296	Computer Science Handbook	Computer and Information Science	2015	Prof Pauline Dauksza	155	Hardcover
669	9781680941302	Data Acquisition Handbook	Computer and Information Science	2015	Thomas Rohsenow	160	Hardcover
670	9781680941319	Digital Image Processing Handbook	Computer and Information Science	2015	Prof. Dmitri Migunov	160	Hardcover
671	9781680941326	Digital Signal Processing:Theory and Applications	Computer and Information Science	2015	Prof. Dmitri Migunov	135	Hardcover
672	9781680941333	Handbook of Computer Networks and Communications	Computer and Information Science	2015	Prof. S. G. Wildman and Alan Thompson	160	Hardcover

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673	9781680941340	Handbook of Distributed Sensor Networks	Computer and Information Science	2015	Senne Bednarski	150	Hardcover
674	9781680941357	Information Security:Principles and New Concepts	Computer and Information Science	2015	Kadema Carter	135	Hardcover
675	9781680941364	Computational Intelligence and Soft Computing	Computer and Information Science	2015	Prof. Nicholas Donovan	135	Hardcover
676	9781680941371	Computer Simulation Techniques In Process Improvement And Management	Computer and Information Science	2015	Prof. Ning Huáng	135	Hardcover
677	9781680941388	Computer Technology & Computer Programming: New Research & Strategies	Computer and Information Science	2015	Dr.Richard Anderson	135	Hardcover
678	9781680941395	Contemporary Issues In Cyber Crime And Law	Computer and Information Science	2015	Kadema Carter	135	Hardcover
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680	9781680941418	Cybercrime: Conceptualized and Codified	Computer and Information Science	2015	Dr. Richard Anderson and Kadema Carter	135	Hardcover
681	9781680941425	Optical Computing	Computer and Information Science	2015	Prof. Tyler Fisher	135	Hardcover
682	9781680941432	Quantum Computing	Computer and Information Science	2015	Prof. Lim Wong	135	Hardcover
683	9781680941449	Quantum Cryptography	Computer and Information Science	2015	Prof. Saul Jones	135	Hardcover
684	9781680941456	Encyclopedia of Effective Online Teaching: Foundations and Strategies for Student Success	Education and Psychology	2015	Alejandro Czarnecki and Adrian Bogdasiewicz	420	Hardcover
685	9781680941463	Comparative Study of Traditional Teaching	Education and Psychology	2015	Alejandro Czarnecki and Adrian Bogdasiewicz	140	Hardcover
686	9781680941470	Online Teaching Strategies	Education and Psychology	2015	Alejandro Czarnecki and Adrian Bogdasiewicz	140	Hardcover
687	9781680941487	Virtual Education: Cases in Learning & Teaching Technologies	Education and Psychology	2015	Alejandro Czarnecki and Adrian Bogdasiewicz	140	Hardcover
688	9781680941494	Teacher Empowerment Through Curriculum Development	Education and Psychology	2015	Prof. Aaron Remington	130	Hardcover
689	9781680941500	Web-Based Learning and Teaching Technologies	Education and Psychology	2015	Prof. James Fletcher	130	Hardcover
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691	9781680941524	Encyclopedia of Grammatical Analysis: Morphology, Syntax, and Semantics	Language and Literature	2015	Prof. Shaun Taylor and Prof. David Boroski	405	Hardcover
692	9781680941531	Functional & Corpus Approaches Of English Grammar	Language and Literature	2015	Prof. Shaun Taylor and Prof. David Boroski	135	Hardcover
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694	9781680941555	English Linguistic Communication	Language and Literature	2015	Prof. Shaun Taylor and Prof. David Boroski	135	Hardcover
695	9781680941562	Language Acquisition: The Growth of Grammar	Language and Literature	2015	Dr. Jonathan Grady	125	Hardcover
696	9781680941579	Linguistics: An Introduction to Language and Communication	Language and Literature	2015	Olegovna Ignatyev	125	Hardcover
697	9781680941586	Perspectives on Applied Linguistics in Language and Literature	Language and Literature	2015	Edward Morgan	125	Hardcover
698	9781680941593	Handbook of Spoken Language and Applied Linguistics	Language and Literature	2015	Prof. Nathan Greyson	145	Hardcover
699	9781680941609	Metaphor and Corpus Linguistics	Language and Literature	2015	Manon Derenowski	125	Hardcover
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703	9781680941647	Handbook of Curriculum Design: Construction and Critique	Education and Psychology	2015	Belka Polotentsev	160	Hardcover
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715	9781680941760	Hand Book Of Flavours & Food Colourants Technology	Tourism and Hospitality	2015	Prof Maria Baun	125	Hardcover
716	9781680941777	International Encyclopaedia of Modern Hospitality and Tourism Management	Tourism and Hospitality	2015	Piotr Vasilevich and Cas Czetyrbok	700	Hardcover
717	9781680941784	Current Issues in Hospitality and Tourism: Research and Innovations	Tourism and Hospitality	2015	Piotr Vasilevich and Cas Czetyrbok	140	Hardcover
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720	9781680941814	Consumer Psychology of Tourism, Hospitality and Leisure	Tourism and Hospitality	2015	Piotr Vasilevich and Cas Czetyrbok	140	Hardcover
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722	9781680941838	Handbook of Innovation in the Food and Drink Industry	Tourism and Hospitality	2015	Dylan Hayden	150	Hardcover
723	9781680941845	Encyclopaedia of Tourism, Hotel, Food and Hospitality Management	Tourism and Hospitality	2015	Dmitriyevna Korotayev and Constantinovich Kosma	405	Hardcover
724	9781680941852	Hotel Management and Operations	Tourism and Hospitality	2015	Dmitriyevna Korotayev and Constantinovich Kosma	135	Hardcover
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731	9781680941920	Encyclopaedia of Hotel, Kitchen, Catering Technology, Food Service and Hospitality Management	Tourism and Hospitality	2015	Cas Czetyrbok and Prof Thomas Hogg	405	Hardcover
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735	9781680941968	Encyclopedia of Food Science	Tourism and Hospitality	2015	Prof. Sander Ulanowicz and Zhong Sung	270	Hardcover
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737	9781680941982	Food Processing Technology	Tourism and Hospitality	2015	Prof. Sander Ulanowicz and Zhong Sung	135	Hardcover
738	9781680941999	Food Industrial Processes Handbook	Tourism and Hospitality	2015	Prof Maria Baun	150	Hardcover
739	9781680942002	Food Quality Handbook	Tourism and Hospitality	2015	Su Song Soong	160	Hardcover
740	9781680942019	Handbook of Food Additives	Tourism and Hospitality	2015	Constantinovich Kosma	150	Hardcover
741	9781680942026	Encyclopedia of Clinical Psychology	Education and Psychology	2015	Prof. Xiang Kô Kau and Belka Polotentsev	420	Hardcover
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769	9781680942316	Biofouling Methods	Agriculture and Life Sciences	2015	Charles Sturt	150	Hardcover
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771	9781680942330	The Molecular Life of Plants	Agriculture and Life Sciences	2015	Prof. David Cena	150	Hardcover
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776	9781680942385	Encyclopedia of Plant Hormones: Physiology, Biochemistry, and Molecular Biology	Agriculture and Life Sciences	2015	Prof. Maxime Vorobice and Aaron Czarnecki	480	Hardcover
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793	9781680942552	Handbook of Plant Ecophysiology Techniques	Agriculture and Life Sciences	2015	Aaron Czarnecki	150	Hardcover
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795	9781680942576	Handbook of Precision Agriculture	Agriculture and Life Sciences	2015	Charles Luxemburg	175	Hardcover
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822	9781680942842	Fungicides and Their Action	Agriculture and Life Sciences	2015	Rederick Trinde and Prof. David Cena	160	Hardcover
823	9781680942859	Control of Crop Diseases	Agriculture and Life Sciences	2015	Rederick Trinde and Prof. David Cena	160	Hardcover
824	9781680942866	Encyclopedia of Insecticides	Agriculture and Life Sciences	2015	Ivan Blum Rabinovich and Margarita Lesnichy	320	Hardcover
825	9781680942873	Insecticides of Natural Origin	Agriculture and Life Sciences	2015	Ivan Blum Rabinovich and Margarita Lesnichy	160	Hardcover
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838	9781680943009	Geographical Information and Planning	Earth and Environment Science	2015	Ping Chan and Artur Nazarov	155	Hardcover
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