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**Cognitive Computing**

**for Human-Robot**

**Interaction** Lulu.com

In order to meet food needs, farmers need to integrate the latest technologies enabling them to make more informed decisions.

Smart Farming

Technologies for

Sustainable

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Agricultural Development provides innovative insights into the latest farming advancements in terms of informatics and communication. The content within this publication represents the work of topics such as sensor systems, wireless communication, and the integration of the Internet of Things in agriculture-related processes. It is a vital reference source for farmers, academicians, researchers, government agencies, technology developers, and graduate-level students seeking current research on smart farming technologies.

**Nanomaterials for Water Remediation**  
River Publishers

It is an age-old belief that when we grow up, we will wake up one morning, and voila! we will know our life purpose. Yet, we are all grown up, working like a dog, tired to the bone, and still no life purpose in sight! The truth is our life purpose is actually our dharma - taking the right action as it presents itself. In this book, you will find the Secrets to knowing exactly what to do with your life. Designed especially for you, the modern dharma seeker, Discover Your Dharma provides a uniquely practical and innovative process to guide you through your journey of discovery. Begin it now! Encyclopedia of Healthcare Information Systems CRC Press

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There is no industry left where artificial intelligence is not used in some capacity. The application of this technology has already stretched across a multitude of domains including law and policy; it will soon permeate areas beyond anyone's imagination.

Technology giants such as Google, Apple, and Facebook are already investing their money, effort, and time toward integrating artificial intelligence. As this technology continues to develop and expand, it is critical for everyone to understand the various applications of artificial intelligence and its full potential. The Handbook of Research on Innovative Management Using AI in Industry 5.0 uncovers new and innovative features of artificial intelligence and how it can help in raising economic efficiency at both micro and macro levels and provides a deeper understanding of the

relevant aspects of artificial intelligence impacting efficacy for better output. Covering topics such as consumer behavior, information technology, and personalized banking, it is an ideal resource for researchers, academicians, policymakers, business professionals, companies, and students.

### Handbook of IoT and Big Data IGI Global

As global waste generation increases at a rapid rate, there is a dire need for waste management practices such as collection, disposal, and recycling to protect from environmental pollution. However, developing countries generate two to three times more waste, resort to open dumps more often than developed countries,

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and are slower to integrate waste management standards. There is a need for studies that examine the waste generation and practices of countries that share similar economic backgrounds as they strive to implement successful waste management techniques. **Sustainable Waste Management Challenges in Developing Countries** is an essential reference source that discusses the challenges and strategies of waste management practices and the unique waste issues faced by developing countries that prevent them from achieving the goal of integrated waste

management. While highlighting topics including e-waste, transboundary movement, and consumption patterns, this book is ideally designed for policymakers, legislators, waste company managers, environmentalists, students, academicians, and municipal planners seeking current research on the global waste management problem.

**Computational Intelligence Techniques and Their Applications to Software Engineering Problems**

Manjul Publishing

This multi-contributed handbook focuses on the latest workings of IoT (internet of Things) and Big Data. As the resources are limited, it's the endeavor of the authors to

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support and bring the information into one resource. The book is divided into 4 sections that covers IoT and technologies, the future of Big Data, algorithms, and case studies showing IoT and Big Data in various fields such as health care, manufacturing and automation. Features Focuses on the latest workings of IoT and Big Data Discusses the emerging role of technologies and the fast-growing market of Big Data Covers the movement toward automation with hardware, software, and sensors, and trying to save on energy resources Offers the latest technology on IoT Presents the future horizons on Big Data

*Sustainable Waste Management Challenges in Developing Countries* John Wiley & Sons

*Cognitive Computing for Human-Robot Interaction: Principles and Practices*

explores the efforts that should ultimately enable society to take advantage of the often-heralded potential of robots to provide economical and sustainable computing applications. This book discusses each of these applications, presents working implementations, and combines coherent and original deliberative architecture for human–robot interactions (HRI).

Supported by experimental results, it shows how explicit knowledge management promises to be instrumental in building richer and more natural HRI, by pushing for pervasive, human-level semantics within the robot's deliberative system for sustainable computing applications. This book will be of special interest to academics, postgraduate students, and researchers

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working in the area of artificial intelligence and machine learning. Key features: Introduces several new contributions to the representation and management of humans in autonomous robotic systems; Explores the potential of cognitive computing, robots, and HRI to generate a deeper understanding and to provide a better contribution from robots to society; Engages with the potential repercussions of cognitive computing and HRI in the real world. Introduces several new contributions to the representation and management of humans in an autonomous robotic system Explores cognitive computing, robots and HRI, presenting a more in-depth understanding to make robots better for society Gives a challenging

approach to those several repercussions of cognitive computing and HRI in the actual global scenario  
Walter de Gruyter GmbH & Co KG  
Healthcare, a vital industry that touches most of us in our lives, faces major challenges in demographics, technology, and finance. Longer life expectancy and an aging population, technological advancements that keep people younger and healthier, and financial issues area constant strain on healthcare organizations' resources and management. Focusing on the organization's ability to improve access, quality, and value of care to the patient may present possible solutions to these challenges. The Encyclopedia of Healthcare Information Systems provides an extensive and rich compilation of international research, discussing the use, adoption, design, and diffusion

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of information communication technologies (ICTs) in healthcare, including the role of ICTs in the future of healthcare delivery; access, quality, and value of healthcare; nature and evaluation of medical technologies; ethics and social implications; and medical information management.

Springer Nature

This extensive and singular work focuses on current applications of nanotechnology in food systems. The functionality and applicability of food-related nanotechnology is covered in depth, presenting a view on the food processing, packaging, storage and safety assessment of nanotechnology in the food industry. Multiple nanostructures are covered, each with their specific ingredient choice, production strategy, functionality and application in food engineering. Individual chapters focus on current processing methods and applications of nanotechnology in foods. Nano-food Engineering

Volume One brings together panels of highly accomplished experts in the field of composites, nanotechnology and chemical engineering and food technology. The work encompasses basic studies and addresses novel issues, covering all engineering aspects, opportunities and challenges and solutions of nano-foods.

*Manufacturing Process*  
SIAM

Currently the field of nanocatalysis is undergoing many exciting developments and the design of silica-based organic-inorganic hybrid nanocatalysts is a key focus of the researchers working in this field. This book aims to present a succinct overview of the recent research progress directed towards the fabrication of silica-based organic-inorganic hybrid catalytic systems encompassing the key

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advantages of silica nanoparticles and silica-coated magnetic nanoparticles in an integrated manner. Featuring comprehensive descriptions of almost all approaches utilized for the synthesis of nanomaterials including some latest techniques such as flow and microwave-assisted synthesis that enable large-scale synthesis, it proves useful not only to academics but also industrialists. It also includes a systematic discussion on the vital characterization techniques employed for authenticating the structure of these. The title also offers an enormous amount of knowledge about the fusion of nanotechnology with green chemistry that strives to meet the scientific challenges of protecting human health and the

environment.

Introduction to Analog and Digital Communication New Age International

The 12 chapters comprehensively cover the development and advances on emerging carbon-based nanocomposites for wastewater applications and discuss the following topics: The emerging carbon-based nanocomposites for remediation of heavy metals and organic pollutants from wastewater; Functional green carbon nanocomposites for heavy-metal treatment in water; Green nanocomposites and their applications in environmentally-friendly carbon nanomaterials; Carbon-based nanocomposites as heterogeneous catalysts for organic reactions in environment-friendly solvents; Carbonaceous nanomaterials for arsenic and chromium removal from waste water; Biochar-based adsorbents for



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the removal of organic pollutants from aqueous systems; Describes carbon nanomaterials based green nanocomposites; The removal of trihalomethanes from water using nanofiltration membranes and The transformation of wide bandgap semiconductors for visible-light photocatalytic degradation of organic dyes; Nanocomposite materials as electrode materials in microbial fuel cells for the removal of water pollutants; Plasmonic smart nanosensors for the determination of environmental pollutants.

### **Emerging Carbon-Based Nanocomposites for Environmental Applications**

IGI Global  
This book primarily focuses on the design of analog and digital communication systems; and has been structured to cater to the second year engineering

undergraduate students of Computer Science, Information Technology, Electrical Engineering and Electronics and Communication departments. For better understanding, the basics of analog communication systems are outlined before the digital communication systems section. The content of this book is also suitable for the students with little knowledge in communication systems. The book is divided into five modules for efficient presentation, and it provides numerous examples and illustrations for the detailed understanding of the subject, in a thorough manner. Technical topics discussed in the book include: Analog modulation techniques-AM, FM and PM Digital modulation techniques-ASK,

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PSK, FSK, QPSK, MSK and M-ary modulation techniques and Data communication coding techniques-Shannon Fano and Huffman coding; channel coding techniques-Linear block codes and convolutional codesAdvanced communication techniques topics includes-Cellular communication, Satellite communication and multiple access schemes.

**Governance** New Age International

This book gathers selected papers presented at the 2nd International Conference on Computing, Communications and Data Engineering, held at Sri Padmavati Mahila

Visvavidyalayam, Tirupati, India from 1 to 2 Feb 2019. Chiefly discussing major issues and challenges in data engineering systems and computer communications, the topics covered include wireless systems

and IoT, machine learning, optimization, control, statistics, and social computing.

Principles and Practices CRC Press

Author Impact

The Era of Nanotechnology

Elsevier

Soft Computing in Data

AnalyticsProceedings of

International Conference on

SCDA 2018Springer

*Discover Your Dharma*

Springer

As a paradigm for the future, micro-scale technology seeks to fuse revolutionary concepts in science and engineering and then translate it into reality.

Nanotechnology is an interdisciplinary field that aims to connect what is seen with the naked eye and what is unseen on the molecular level. The Handbook of Research on Diverse Applications of Nanotechnology in

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Biomedicine, Chemistry, and Engineering examines the strengths and future potential of micro-scale technologies in a variety of industries. Highlighting the benefits, shortcomings, and emerging perspectives in the application of nano-scale technologies, this book is a comprehensive reference source for synthetic chemists, engineers, graduate students, and researchers with an interest in the multidisciplinary applications, as well as the ongoing research in the field.

*Being Love* "O'Reilly Media, Inc."

'Programming .NET Components', second edition, updated to cover .NET 2.0., introduces the Microsoft .NET Framework for building components on Windows platforms. From its many lessons, tips, and

guidelines, readers will learn how to use the .NET Framework to program reusable, maintainable, and robust components.

Understanding Engineering Mathematics IGI Global

This book discusses the evolution of security and privacy issues in the Internet of Things (IoT). The book focuses on assembling all security- and privacy-related technologies into a single source so that students, researchers, academics, and those in the industry can easily understand the IoT security and privacy issues.

This edited book discusses the use of security engineering and privacy-by-design principles to design a secure IoT ecosystem and to implement cyber-security solutions. This book takes the readers on a journey that begins with understanding

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security issues in IoT-enabled technologies and how these can be applied in various sectors. It walks readers through engaging with security challenges and building a safe infrastructure for IoT devices. The book helps researchers and practitioners understand the security architecture of IoT and the state-of-the-art in IoT countermeasures. It also differentiates security threats in IoT-enabled infrastructure from traditional ad hoc or infrastructural networks, and provides a comprehensive discussion on the security challenges and solutions in RFID and WSNs in IoT. This book aims to highlight the concepts of related technologies and novel findings by researchers through its chapter organization. The primary audience comprises

specialists, researchers, graduate students, designers, experts, and engineers undertaking research on security-related issues.

Meri Priya Kahaniyan IGI Global

The volume contains original research findings, exchange of ideas and dissemination of innovative, practical development experiences in different fields of soft and advance computing. It provides insights into the International Conference on Soft Computing in Data Analytics (SCDA). It also concentrates on both theory and practices from around the world in all the areas of related disciplines of soft computing. The book provides rapid dissemination of important results in soft computing technologies, a fusion of

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research in fuzzy logic, evolutionary computations, neural science and neural network systems and chaos theory and chaotic systems, swarm based algorithms, etc. The book aims to cater the postgraduate students and researchers working in the discipline of computer science and engineering along with other engineering branches.

*Programming .NET Components*  
IGI Global

This book shows how to build and maintain a distinctive and credible employer brand and develop a set of relevant success metrics to help measure return on investment (ROI). Starting with the current interest in employer branding, this book looks at the historical roots of brand management and the practical steps to achieve employer brand management success. The book will review the pressures that have generated current interest in employer branding. It goes on to

look at the historical roots of brand management and the practical steps necessary to achieve employer brand management success. The book includes the business case, research, positioning, implementation, management and measurement, and case studies of big-named employer brand stories. This book will provide new insights into the field of employer branding and provide directions and tools for organizational brand building. It will be beneficial for research scholars, engineers, practitioners, and management students.

*Employer Branding for Competitive Advantage*  
John Wiley & Sons

*Civil Engineering Materials: Introduction and Laboratory Testing* discusses the properties, characterization procedures, and analysis techniques of primary civil engineering materials. It presents the latest design considerations and uses of engineering materials as well as theories for fully understanding them through numerous worked mathematical examples. The

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book also includes important laboratory tests which are clearly described in a step-by-step manner and further illustrated by high-quality figures. Also, analysis equations and their applications are presented with appropriate examples and relevant practice problems, including Fundamentals of Engineering (FE) styled questions as well those found on the American Concrete Institute (ACI) Concrete Field Testing Technician - Grade I certification exam. Features: Includes numerous worked examples to illustrate the theories presented Presents Fundamentals of Engineering (FE) examination sample questions in each chapter Reviews the ACI Concrete Field Testing Technician - Grade I certification exam Utilizes the latest laboratory testing standards and practices Includes additional resources for instructors teaching related courses This book is intended for students in civil engineering, construction engineering, civil engineering technology, construction management engineering