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Information Warfare and Security Industrial Communication Systems Exploring Innovation The Bios Companion Hydraulic Structures Food Authenticity and Traceability Twelve Years a Slave Spectroscopic Methods for Nanomaterials Characterization Marijuana Grower's Guide Continuous-Time Systems GeNeDis 2016 Privacy and Data Protection Computing, Communication and Signal Processing Infrared Spectroscopic Imaging The Last Lecture Learning IoT with Python and Raspberry Pi Encyclopedia of Food Microbiology Wireless Sensor Networks Modeling and Simulation of Computer Networks and Systems Genetic and Evolutionary Computing Proceedings of International Conference on Wireless Communication Advances in Communication, Devices and Networking Computational Engineering - Introduction to Numerical Methods Proceedings of the International Conference on Computing and Communication Systems Relieving Pain in America Advances in Power Systems and Energy Management PROFIBUS Manual Analytical Atomic Spectrometry with Flames and Plasmas ICT in Education, Research, and Industrial Applications Recent Advances in Technology Research and Education Probability Fourier Transform Infrared Spectroscopy Ftir Clerk Advances in Swarm Intelligence Applications of Artificial Intelligence Techniques in Engineering Computer Networks Finite Elements for Electrical Engineers Advances in Swarm Intelligence Smart Intelligent Computing and Applications International Conference on Artificial Intelligence: Advances and Applications 2019

Information Warfare and Security

The two-volume set of LNCS 10385 and 10386, constitutes the proceedings of the 8th International Conference on Advances in Swarm Intelligence, ICSI 2017, held in Fukuoka, Japan, in July/August 2017. The total of 133 papers presented in these volumes was carefully reviewed and selected from 267 submissions. The paper were organized in topical sections as follows: Part I: theories and models of swarm intelligence; novel swarm-based optimization algorithms; particle swarm optimization; applications of particle swarm optimization; ant colony optimization; artificial bee colony algorithms; genetic algorithms; differential evolution; fireworks algorithm; brain storm optimization algorithm; cuckoo search; and firefly algorithm. Part II: multi-objective optimization; portfolio optimization; community detection; multi-agent systems and swarm robotics; hybrid optimization algorithms and applications; fuzzy and swarm approach; clustering and forecast; classification and detection; planning and routing problems; dialog system applications; robotic control; and other applications.

Industrial Communication Systems

The Industrial Electronics Handbook, Second Edition, Industrial Communications Systems combines traditional and newer,

more specialized knowledge that helps industrial electronics engineers develop practical solutions for the design and implementation of high-power applications. Embracing the broad technological scope of the field, this collection explores fundamental areas, including analog and digital circuits, electronics, electromagnetic machines, signal processing, and industrial control and communications systems. It also facilitates the use of intelligent systems—such as neural networks, fuzzy systems, and evolutionary methods—in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components. Enhancing its value, this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal, one of the largest and most respected publications in the field. Modern communication systems in factories use many different—and increasingly sophisticated—systems to send and receive information. Industrial Communication Systems spans the full gamut of concepts that engineers require to maintain a well-designed, reliable communications system that can ensure successful operation of any production process. Delving into the subject, this volume covers: Technical principles Application-specific areas Technologies Internet programming Outlook, including trends and expected challenges Other volumes in the set: Fundamentals of Industrial Electronics Power Electronics and Motor Drives Control and Mechatronics Intelligent Systems

Exploring Innovation

The Bios Companion

This third edition of the principal text on the finite element method for electrical engineers and electronics specialists presents the method in a mathematically undemanding style, accessible to undergraduates who may be encountering it for the first time. Like the earlier editions, it begins by deriving finite elements for the simplest familiar potential fields, and then formulates finite elements for a wide range of applied electromagnetics problems. These include wave propagation, diffusion, and static fields; open-boundary problems and nonlinear materials; axisymmetric, planar and fully three-dimensional geometries; and scalar and vector fields. A wide selection of demonstration programs allows the reader to follow the practical use of the methods. Besides providing all that is needed for the beginning undergraduate student, this textbook is also a valuable reference text for professional engineers and research students.

Hydraulic Structures

Written by the world's leading scientists and spanning over 400 articles in three volumes, the Encyclopedia of Food Microbiology, Second Edition is a complete, highly structured guide to current knowledge in the field. Fully revised and

updated, this encyclopedia reflects the key advances in the field since the first edition was published in 1999. The articles in this key work, heavily illustrated and fully revised since the first edition in 1999, highlight advances in areas such as genomics and food safety to bring users up-to-date on microorganisms in foods. Topics such as DNA sequencing and E. coli are particularly well covered. With lists of further reading to help users explore topics in depth, this resource will enrich scientists at every level in academia and industry, providing fundamental information as well as explaining state-of-the-art scientific discoveries. This book is designed to allow disparate approaches (from farmers to processors to food handlers and consumers) and interests to access accurate and objective information about the microbiology of foods. Microbiology impacts the safe presentation of food. From harvest and storage to determination of shelf-life, to presentation and consumption. This work highlights the risks of microbial contamination and is an invaluable go-to guide for anyone working in Food Health and Safety. Has a two-fold industry appeal (1) those developing new functional food products and (2) to all corporations concerned about the potential hazards of microbes in their food products.

Food Authenticity and Traceability

Fourier Transform Infrared (FTIR) spectroscopy applies the principle that molecular vibrations can absorb infrared radiation in the range of the electromagnetic radiation. This book discusses methods and provides new research on FTIR. Chapter One reviews the advances in the analysis of biological systems by means of FTIR spectroscopy. Chapter Two studies the latest advances of infrared spectroscopy applied to the analysis of lignocellulosic materials. Chapter Three presents the Fourier transform infrared spectroscopic, coupled with chemometric tools, to characterize organic matter transformations during the composting process. Chapter Four focuses on applications of FTIR spectroscopy in the wine industry.

Twelve Years a Slave

This book highlights cutting-edge research on various aspects of human-computer interaction (HCI). It includes selected research papers presented at the Third International Conference on Computing, Communication and Signal Processing (ICCASP 2018), organized by Dr. Babasaheb Ambedkar Technological University in Lonere-Raigad, India on January 26-27, 2018. It covers pioneering topics in the field of computer, electrical, and electronics engineering, e.g. signal and image processing, RF and microwave engineering, and emerging technologies such as IoT, cloud computing, HCI, and green computing. As such, the book offers a valuable guide for all scientists, engineers and research students in the areas of engineering and technology.

Spectroscopic Methods for Nanomaterials Characterization

Provides information on the history, botany, and cultivation of marijuana.

Marijuana Grower's Guide

This book is a collective work made by various authors well-recognised owing to their appreciable contributions to the theory and applications of probability. Both mathematical and engineering aspects of probability outline its framework. Readers can find here several timely topics such as risk theory and applications, Laplace distributions which describe the heavy-tailed noise, Poisson sums having applications in business and engineering, Markov chains investigations and approximations, Bernstein-Hoeffding-type exponential inequalities useful for proving limiting theorems, Bayesian computational methods, as well as a modern view on sampling and reconstruction of Gaussian and non-Gaussian random processes.

Continuous-Time Systems

This book presents selected contributions to the 16th International Conference on Global Research and Education Inter-Academia 2017 hosted by Alexandru Ioan Cuza University of Iași, Romania from 25 to 28 September 2017. It is the third volume in the series, following the editions from 2015 and 2016. Fundamental and applied research in natural sciences have led to crucial developments in the ongoing 4th global industrial revolution, in the course of which information technology has become deeply embedded in industrial management, research and innovation – and just as deeply in education and everyday life. Materials science and nanotechnology, plasma and solid state physics, photonics, electrical and electronic engineering, robotics and metrology, signal processing, e-learning, intelligent and soft computing have long since been central research priorities for the Inter-Academia Community (I-AC) – a body comprising 14 universities and research institutes from Japan and Central/East-European countries that agreed, in 2002, to coordinate their research and education programs so as to better address today's challenges. The book is intended for use in academic, government, and industrial R&D departments as a reference tool in research and technology education. The 42 peer-reviewed papers were written by more than 119 leading scientists from 14 countries, most of them affiliated to the I-AC.

GeNeDis 2016

Infrared spectroscopic imaging is a rapidly emerging technology that combines the molecular selectivity of infrared vibrational spectroscopy with the spatial specificity of optical microscopy. This book presents an in-depth quantitative analysis of the fundamental science, technology and applications of this modality. Content is directed from the beginning spectroscopic imaging practitioner for whom this would prove to be a textbook to the seasoned spectroscopist for whom

this volume would prove to an invaluable reference.

Privacy and Data Protection

The proceedings covers advanced and multi-disciplinary research on design of smart computing and informatics. The theme of the book broadly focuses on various innovation paradigms in system knowledge, intelligence and sustainability that may be applied to provide realistic solution to varied problems in society, environment and industries. The volume publishes quality work pertaining to the scope of the conference which is extended towards deployment of emerging computational and knowledge transfer approaches, optimizing solutions in varied disciplines of science, technology and healthcare.

Computing, Communication and Signal Processing

Modeling and Simulation of Computer Networks and Systems: Methodologies and Applications introduces you to a broad array of modeling and simulation issues related to computer networks and systems. It focuses on the theories, tools, applications and uses of modeling and simulation in order to effectively optimize networks. It describes methodologies for modeling and simulation of new generations of wireless and mobiles networks and cloud and grid computing systems. Drawing upon years of practical experience and using numerous examples and illustrative applications recognized experts in both academia and industry, discuss: Important and emerging topics in computer networks and systems including but not limited to; modeling, simulation, analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Methodologies, strategies and tools, and strategies needed to build computer networks and systems modeling and simulation from the bottom up Different network performance metrics including, mobility, congestion, quality of service, security and more Modeling and Simulation of Computer Networks and Systems is a must have resource for network architects, engineers and researchers who want to gain insight into optimizing network performance through the use of modeling and simulation. Discusses important and emerging topics in computer networks and Systems including but not limited to; modeling, simulation, analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Provides the necessary methodologies, strategies and tools needed to build computer networks and systems modeling and simulation from the bottom up Includes comprehensive review and evaluation of simulation tools and methodologies and different network performance metrics including mobility, congestion, quality of service, security and more

Infrared Spectroscopic Imaging

This book is a collection of research articles and critical review articles, describing the overall approach to energy

management. The book emphasizes the technical issues that drive energy efficiency in context of power systems. This book contains case studies with and without solutions on modelling, simulation and optimization techniques. It covers some innovative topics such as medium voltage (MV) back-to-back (BTB) system, cost optimization of a ring frame unit in textile industry, rectenna for radio frequency (RF) energy harvesting, ecology and energy dimension in infrastructural designs, 2.4 kW three-phase inverter for aircraft application, study of automatic generation control (AGC) in a two area hydrothermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication using LabVIEW. This book is primarily targeted at researchers and senior graduate students, but is also highly useful for the industry professional and scientists.

The Last Lecture

This book introduces research presented at the “International Conference on Artificial Intelligence: Advances and Applications-2019 (ICAIAA 2019),” a two-day conference and workshop bringing together leading academicians, researchers as well as students to share their experiences and findings on all aspects of engineering applications of artificial intelligence. The book covers research in the areas of artificial intelligence, machine learning, and deep learning applications in health care, agriculture, business and security. It also includes research in core concepts of computer networks, intelligent system design and deployment, real-time systems, WSN, sensors and sensor nodes, SDN and NFV. As such it is a valuable resource for students, academics and practitioners in industry working on AI applications.

Learning IoT with Python and Raspberry Pi

This book discusses in detail the planning, design, construction and management of hydraulic structures, covering dams, spillways, tunnels, cut slopes, sluices, water intake and measuring works, ship locks and lifts, as well as fish ways. Particular attention is paid to considerations concerning the environment, hydrology, geology and materials etc. in the planning and design of hydraulic projects. It also considers the type selection, profile configuration, stress/stability calibration and engineering countermeasures, flood releasing arrangements and scouring protection, operation and maintenance etc. for a variety of specific hydraulic structures. The book is primarily intended for engineers, undergraduate and graduate students in the field of civil and hydraulic engineering who are faced with the challenges of extending our understanding of hydraulic structures ranging from traditional to groundbreaking, as well as designing, constructing and managing safe, durable hydraulic structures that are economical and environmentally friendly.

Encyclopedia of Food Microbiology

This text describes the functions that the BIOS controls and how these relate to the hardware in a PC. It covers the CMOS and chipset set-up options found in most common modern BIOSs. It also features tables listing error codes needed to troubleshoot problems caused by the BIOS.

Wireless Sensor Networks

Modeling and Simulation of Computer Networks and Systems

This book constitutes the thoroughly refereed proceedings of the 26th International Conference on Computer Networks, CN 2019, held in Gliwice, Poland, in June 2019. The 29 full papers presented were carefully reviewed and selected from 64 submissions. They are organized in topical sections on computer networks; communications; and queueing theory and queueing networks.

Genetic and Evolutionary Computing

Nanomaterials Characterization Techniques, Volume Two, part of an ongoing series, offers a detailed analysis of the different types of spectroscopic methods currently being used in nanocharacterization. These include, for example, the Raman spectroscopic method for the characterization of carbon nanotubes (CNTs). This book outlines the different kinds of spectroscopic tools being used for the characterization of nanomaterials and discusses under what conditions each should be used. The book is intended to cover all the major spectroscopic techniques for nanocharacterization, making it an important resource for both the academic community at the research level and the industrial community involved in nanomanufacturing. Explores how spectroscopy and X-ray-based nanocharacterization techniques are applied in modern industry Analyzes all the major spectroscopy and X-ray-based nanocharacterization techniques, allowing the reader to choose the best for their situation Presents a method-orientated approach that explains how to successfully use each technique

Proceedings of International Conference on Wireless Communication

The volume contains latest research work presented at International Conference on Computing and Communication Systems (I3CS 2016) held at North Eastern Hill University (NEHU), Shillong, India. The book presents original research results, new ideas and practical development experiences which concentrate on both theory and practices. It includes papers from all areas of information technology, computer science, electronics and communication engineering written by

researchers, scientists, engineers and scholar students and experts from India and abroad.

Advances in Communication, Devices and Networking

This work offers students at all levels a description of linear, nonlinear, time-invariant, and time-varying electronic continuous-time systems. As an assemblage of physical or mathematical components organized and interacting to convert an input signal to an output signal, an electronic system can be described using different methods offered by the modern systems theory. To make possible for readers to understand systems, the book systematically covers the major foundations of the systems theory.

Computational Engineering - Introduction to Numerical Methods

This book constitutes the refereed proceedings of the 8th International Conference on ICT in Education, Research, and Industrial Applications, held in Kherson, Ukraine, in June 2012. The 14 revised full papers were carefully reviewed and selected from 70 submissions. This book begins with an invited contribution presenting the substance of one of ICTERI 2012 invited talks. The chapter deals with the issues of abstraction and verification of properties in real-time Java programs. The rest of the volume is structured in four topical parts: ICT Frameworks, Infrastructures, Integration, and Deployment; Formal Logic and Knowledge-Based Frameworks; ICT-Based Systems Modeling, Specification, and Verification; ICT in Teaching and Learning.

Proceedings of the International Conference on Computing and Communication Systems

"We cannot change the cards we are dealt, just how we play the hand."---Randy Pausch A lot of professors give talks titled "The Last Lecture." Professors are asked to consider their demise and to ruminate on what matters most to them. And while they speak, audiences can't help but mull the same question: What wisdom would we impart to the world if we knew it was our last chance? If we had to vanish tomorrow, what would we want as our legacy? When Randy Pausch, a computer science professor at Carnegie Mellon, was asked to give such a lecture, he didn't have to imagine it as his last, since he had recently been diagnosed with terminal cancer. But the lecture he gave--"Really Achieving Your Childhood Dreams"--wasn't about dying. It was about the importance of overcoming obstacles, of enabling the dreams of others, of seizing every moment (because "time is all you have and you may find one day that you have less than you think"). It was a summation of everything Randy had come to believe. It was about living. In this book, Randy Pausch has combined the humor, inspiration and intelligence that made his lecture such a phenomenon and given it an indelible form. It is a book that will be shared for generations to come.

Relieving Pain in America

The 2nd World Congress on Genetics, Geriatrics and Neurodegenerative Disease Research (GeNeDis 2016), will focus on recent advances in geriatrics and neurodegeneration, ranging from basic science to clinical and pharmaceutical developments and will provide an international focus for the latest scientific discoveries, medical practices, and care initiatives. Advances in information technologies will be discussed along with their implications for various research, implementation, and policy concerns. In addition, the conference will address European and global issues in the funding of long-term care and medico-social policies regarding elderly people. GeNeDis 2016 takes place in Sparta, Greece, 20-23 October, 2016. This volume focuses on the sessions that address geriatrics.

Advances in Power Systems and Energy Management

This volume of Advances in Intelligent Systems and Computing contains accepted papers presented at ICGEC 2015, the 9th International Conference on Genetic and Evolutionary Computing. The conference this year was technically co-sponsored by Ministry of Science and Technology, Myanmar, University of Computer Studies, Yangon, University of Miyazaki in Japan, Kaohsiung University of Applied Science in Taiwan, Fujian University of Technology in China and VSB-Technical University of Ostrava. ICGEC 2015 is held from 26-28, August, 2015 in Yangon, Myanmar. Yangon, the most multiethnic and cosmopolitan city in Myanmar, is the main gateway to the country. Despite being the commercial capital of Myanmar, Yangon is a city engulfed by its rich history and culture, an integration of ancient traditions and spiritual heritage. The stunning SHWEDAGON Pagoda is the center piece of Yangon city, which itself is famous for the best British colonial era architecture. Of particular interest in many shops of Bogyoke Aung San Market, and of world renown, are Myanmar's precious stones—rubies, sapphires and jade. At night time, Chinatown comes alive with its pungent aromas and delicious street food. The conference is intended as an international forum for the researchers and professionals in all areas of genetic and evolutionary computing.

PROFIBUS Manual

Notebook Large Size 8.5 x 11 Ruled 150 Pages Softcover

Analytical Atomic Spectrometry with Flames and Plasmas

This two-volume set LNCS 9712 and LNCS 9713 constitutes the refereed proceedings of the 7th International Conference on Swarm Intelligence, ICSI 2016, held in Bali, Indonesia, in June 2016. The 130 revised regular papers presented were

carefully reviewed and selected from 231 submissions. The papers are organized in 22 cohesive sections covering major topics of swarm intelligence and related areas such as trend and models of swarm intelligence research; novel swarm-based optimization algorithms; swarming behaviour; some swarm intelligence algorithms and their applications; hybrid search optimization; particle swarm optimization; PSO applications; ant colony optimization; brain storm optimization; fireworks algorithms; multi-objective optimization; large-scale global optimization; biometrics; scheduling and planning; machine learning methods; clustering algorithm; classification; image classification and encryption; data mining; sensor networks and social networks; neural networks; swarm intelligence in management decision making and operations research; robot control; swarm robotics; intelligent energy and communications systems; and intelligent and interactive and tutoring systems.

ICT in Education, Research, and Industrial Applications

The book is a collection of high-quality, peer-reviewed innovative research papers from the International Conference on Signals, Machines and Automation (SIGMA 2018) held at Netaji Subhas Institute of Technology (NSIT), Delhi, India. The conference offered researchers from academic and industry the opportunity to present their original work and exchange ideas, information, techniques and applications in the field of computational intelligence, artificial intelligence and machine intelligence. The book is divided into two volumes discussing a wide variety of industrial, engineering and scientific applications of the emerging techniques.

Recent Advances in Technology Research and Education

The ability to trace and authenticate a food product is of major concern to the food industry. This important topic is reviewed extensively in this authoritative text on current and emerging techniques. Part one deals with analytical techniques applied to food authentication. There are chapters on both established and developing technologies, as well as discussions of chemometrics and data handling. Part two relates these methodologies to particular food and beverage products, such as meat, dairy products, cereals and wine. In part three traceability is reviewed in detail, looking at the development of efficient traceability systems and their application in practice to such areas as animal feed and fish processing. Food Authenticity and Traceability is an essential reference for all those concerned with food safety and quality. Outlines methods and issues in food authentication and traceability Deals with analytical techniques applied to food authentication, with chapters on established and developing technologies, chemometrics and data handling Explores how techniques are applied in particular sectors and reviews recent developments in traceability systems for differing food products

Probability

Now a major motion picture nominated for nine Academy Awards. Narrative of Solomon Northup, a Citizen of New-York, Kidnapped in Washington City in 1841, and Rescued in 1853. Twelve Years a Slave by Solomon Northup is a memoir of a black man who was born free in New York state but kidnapped, sold into slavery and kept in bondage for 12 years in Louisiana before the American Civil War. He provided details of slave markets in Washington, DC, as well as describing at length cotton cultivation on major plantations in Louisiana.

Fourier Transform Infrared Spectroscopy Ftir

Written for business students, this book provides an introduction to defining, analysing, managing and fostering innovation. It contains examples and cases of innovative products and services that bring the new frontiers of business to life.

Clerk

This completely revised second edition of the standard work has been expanded by some twenty percent to include more information on the latest developments and new apparatus. In particular, sections have been added on microplasmas and new types of spectrometers, while that on the rapidly expanding field of speciations with practical examples from life and environmental sciences have been included. Still in one handy volume, the book covers all the important modern aspects of atomic fluorescence, emission and absorption spectroscopy as well as plasma mass spectroscopy in a readily comprehensible and practice-oriented manner. A thorough explanation of the physical, theoretical and technical basics, example applications including the concrete execution of analysis and comprehensive cross-references to the latest literature allow even newcomers easy access to the methodologies described.

Advances in Swarm Intelligence

The book comprises selected papers presented at the International Conference on Wireless Communication (ICWiCOM), which is organized by D. J. Sanghvi College of Engineering's Department of Electronics and Telecommunication Engineering. The book focuses on specific topics of wireless communication, like signal and image processing applicable to wireless domains, networking, microwave and antenna design, and telemedicine systems. Covering three main areas - networking, antenna designs and embedded systems applicable to communication - it is a valuable resource for postgraduate and doctoral students.

Applications of Artificial Intelligence Techniques in Engineering

What individuals, corporations, and governments need to know about information-related attacks and defenses! Every day, we hear reports of hackers who have penetrated computer networks, vandalized Web pages, and accessed sensitive information. We hear how they have tampered with medical records, disrupted emergency 911 systems, and siphoned money from bank accounts. Could information terrorists, using nothing more than a personal computer, cause planes to crash, widespread power blackouts, or financial chaos? Such real and imaginary scenarios, and our defense against them, are the stuff of information warfare-operations that target or exploit information media to win some objective over an adversary. Dorothy E. Denning, a pioneer in computer security, provides in this book a framework for understanding and dealing with information-based threats: computer break-ins, fraud, sabotage, espionage, piracy, identity theft, invasions of privacy, and electronic warfare. She describes these attacks with astonishing, real examples, as in her analysis of information warfare operations during the Gulf War. Then, offering sound advice for security practices and policies, she explains countermeasures that are both possible and necessary. You will find in this book: A comprehensive and coherent treatment of offensive and defensive information warfare, identifying the key actors, targets, methods, technologies, outcomes, policies, and laws; A theory of information warfare that explains and integrates within a single framework operations involving diverse actors and media; An accurate picture of the threats, illuminated by actual incidents; A description of information warfare technologies and their limitations, particularly the limitations of defensive technologies. Whatever your interest or role in the emerging field of information warfare, this book will give you the background you need to make informed judgments about potential threats and our defenses against them. 0201433036B04062001

Computer Networks

Chronic pain costs the nation up to \$635 billion each year in medical treatment and lost productivity. The 2010 Patient Protection and Affordable Care Act required the Department of Health and Human Services (HHS) to enlist the Institute of Medicine (IOM) in examining pain as a public health problem. In this report, the IOM offers a blueprint for action in transforming prevention, care, education, and research, with the goal of providing relief for people with pain in America. To reach the vast multitude of people with various types of pain, the nation must adopt a population-level prevention and management strategy. The IOM recommends that HHS develop a comprehensive plan with specific goals, actions, and timeframes. Better data are needed to help shape efforts, especially on the groups of people currently underdiagnosed and undertreated, and the IOM encourages federal and state agencies and private organizations to accelerate the collection of data on pain incidence, prevalence, and treatments. Because pain varies from patient to patient, healthcare providers should increasingly aim at tailoring pain care to each person's experience, and self-management of pain should be promoted. In addition, because there are major gaps in knowledge about pain across health care and society alike, the IOM

recommends that federal agencies and other stakeholders redesign education programs to bridge these gaps. Pain is a major driver for visits to physicians, a major reason for taking medications, a major cause of disability, and a key factor in quality of life and productivity. Given the burden of pain in human lives, dollars, and social consequences, relieving pain should be a national priority.

Finite Elements for Electrical Engineers

This book is an introduction to modern numerical methods in engineering. It covers applications in fluid mechanics, structural mechanics, and heat transfer as the most relevant fields for engineering disciplines such as computational engineering, scientific computing, mechanical engineering as well as chemical and civil engineering. The content covers all aspects in the interdisciplinary field which are essential for an "up-to-date" engineer.

Advances in Swarm Intelligence

In the last 20 years I have been personally involved with PROFIBUS: teaching it at the University, working on projects and leading workshops for industry. During this time, various descriptions and guides to different aspects of PROFIBUS were developed. I was helped in this by the contacts I had with industry and a range of experts in my capacity as chairman of PROFIBUS Switzerland and head of the PROFIBUS Competence Centre (PICC) at the Bern University of Applied Sciences. I have now brought these documents together in the form of a manual. Its purpose is to simplify entry to the world of PROFIBUS for a wider public. Now I generated an electronic book version with active links for the usage on iPad or Android tablet computers.

Smart Intelligent Computing and Applications

The book provides insights of International Conference in Communication, Devices and Networking (ICCDN 2017) organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India during 3 - 4 June, 2017. The book discusses latest research papers presented by researchers, engineers, academicians and industry professionals. It also assists both novice and experienced scientists and developers, to explore newer scopes, collect new ideas and establish new cooperation between research groups and exchange ideas, information, techniques and applications in the field of electronics, communication, devices and networking.

International Conference on Artificial Intelligence: Advances and Applications 2019

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