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Mobile Learning Dec 20 2019 Explore the game-changing technology that allows mobile learningto effectively reach K-12 students Mobile Learning: A Handbook for Developers, Educators andLearners provides research-based foundations for developing,evaluating, and integrating effective mobile learning pedagogy.Twenty-first century students require twenty-first centurytechnology, and mobile devices provide new and effective ways toeducate children. But with new technologies come new challenges—therefore,this handbook presents a comprehensive look at mobile learning bysynthesizing relevant theories and drawing practical conclusionsfor developers, educators, and students. Mobile devices—in ways that the laptop, the personalcomputer, and netbook computers have not—present theopportunity to make learning more engaging, interactive, andavailable in both traditional classroom settings and informallearning environments. From theory to practice, MobileLearning explores how mobile devices are different than theirtechnological predecessors, makes the case for developers,teachers, and parents to invest in the technology, and illustratesthe many ways in which it is innovative, exciting, and effective ineducating K-12 students. Explores how mobile devices can support the needs ofstudents Provides examples, screenshots, graphics, and visualizations toenhance the material presented in the book Provides developers with the background necessary to create theapps their audience requires Presents the case for mobile learning in and out of classroomsas early as preschool Discusses how mobile learning enables better educationalopportunities for the visually impaired, students with Autism, andadult learners. If you're a school administrator, teacher, app developer, orparent, this topical book provides a theoretical, well-researcheddiscussion of the pedagogical theory and mobile learning, as wellas practical advice in setting up a mobile learning strategy.

Machine Learning-Based Fault Diagnosis for Industrial Engineering Systems Mar 15 2022 This book provides advanced techniques for precision compensation and fault diagnosis of precision motion systems and rotating machinery. Techniques and applications through experiments and case studies for intelligent precision compensation and fault diagnosis are offered along with the introduction of machine learning and deep

learning methods. Machine Learning-Based Fault Diagnosis for Industrial Engineering Systems discusses how to formulate and solve precision compensation and fault diagnosis problems. The book includes experimental results on hardware equipment used as practical examples throughout the book. Machine learning and deep learning methods used in intelligent precision compensation and intelligent fault diagnosis are introduced. Applications to deal with relevant problems concerning CNC machining and rotating machinery in industrial engineering systems are provided in detail along with applications used in precision motion systems. Methods, applications, and concepts offered in this book can help all professional engineers and students across many areas of engineering and operations management that are involved in any part of Industry 4.0 transformation.

Handbook of Texture Analysis Aug 28 2020 Texture analysis is one of the fundamental aspects of human vision by which we discriminate between surfaces and objects. In a similar manner, computer vision can take advantage of the cues provided by surface texture to distinguish and recognize objects. In computer vision, texture analysis may be used alone or in combination with other sensed features (e.g. color, shape, or motion) to perform the task of recognition. Either way, it is a feature of paramount importance and boasts a tremendous body of work in terms of both research and applications.Currently, the main approaches to texture analysis must be sought out through a variety of research papers. This collection of chapters brings together in one handy volume the major topics of importance, and categorizes the various techniques into comprehensible concepts. The methods covered will not only be relevant to those working in computer vision, but will also be of benefit to the computer graphics, psychophysics, and pattern recognition communities, academic or industrial.

L-system Fractals Sep 21 2022 The book covers all the fundamental aspects of generating fractals through L-system. Also it provides insight to various researches in this area for generating fractals through L-system approach & estimating dimensions. Also it discusses various applications of L-system fractals. Key Features: - Fractals generated from L-System including hybrid fractals - Dimension calculation for L-system fractals - Images & codes for L-system fractals - Research directions in the area of L-system fractals - Usage of various freely downloadable tools in this area - Fractals generated from L-System including hybrid fractals - Dimension calculation for L-system fractals - Images & codes for L-system fractals -

Research directions in the area of L-system fractals - Usage of various freely downloadable tools in this area

Intelligent Systems Aug 20 2022 This book features best selected research papers presented at the International Conference on Machine Learning, Internet of Things, and Big Data (ICMIB 2021) held at Indira Gandhi Institute of Technology, Sarang, India, during December 2021. It comprises high-quality research work by academicians and industrial experts in the field of machine learning, mobile computing, natural language processing, fuzzy computing, green computing, human-computer interaction, information retrieval, intelligent control, data mining and knowledge discovery, evolutionary computing, IoT and applications in smart environments, smart health, smart city, wireless networks, big data, cloud computing, business intelligence, Internet security, pattern recognition, predictive analytics applications in healthcare, sensor networks and social sensing, and statistical analysis of search techniques.

Web Engineering and Applications:ICWA 2006 Dec 24 2022 The Nature of Web systems is substantially different from more conventional software systems. They are developed in shorter timeframes, often act as the direct interface between multiple stakeholders, meet a more generic set of requirements, and generally

Cyber Warfare, Security and Space Research Jan 01 2021 This book sonstitutes selected papers from the first International Conference on Cyber Warfare, Security and Space Research, SpacSec 2021, held in Jaipur, India, in December 2021. The 19 full and 6 short papers were thoroughly reviewed and selected from the 98 submissions. The papers present research on cyber warfare, cyber security, and space research area, including the understanding of threats and risks to systems, the development of a strong innovative culture, and incident detection and post-incident investigation.

IT Enabled Services Jul 27 2020 As the global economy turns more and more service oriented, Information Technology-Enabled Services (ITeS) require greater understanding. Increasing numbers and varieties of services are provided through IT. Furthermore, IT enables the creation of new services in diverse fields previously untouched. Because of the catalyzing nature of internet technology, ITeS today has become more than "Outsourcing" of services. This book illustrates the enabling nature of ITeS with its entailment of IT, thus contributing to the betterment of humanity. The scope of this book is not only for academia but also for business persons, government practitioners and readers from daily lives. Authors

from a variety of nations and regions with various backgrounds provide insightful theories, research, findings and practices in various fields such as commerce, finance, medical services, government and education. This book opens up a new horizon with the application of Internet-based practices in business, government and in daily lives. Information Technology-Enabled Services works as a navigator for those who sail to the new horizon of service oriented economies.

Computational Intelligence in Data Mining Sep 28 2020 The book presents high quality papers presented at the International Conference on Computational Intelligence in Data Mining (ICCIDM 2016) organized by School of Computer Engineering, Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, Odisha, India during December 10 – 11, 2016. The book disseminates the knowledge about innovative, active research directions in the field of data mining, machine and computational intelligence, along with current issues and applications of related topics. The volume aims to explicate and address the difficulties and challenges that of seamless integration of the two core disciplines of computer science.

Software Engineering Mar 27 2023 Our new Indian original book on software engineering covers conventional as well as current methodologies of software development to explain core concepts, with a number of case studies and worked-out examples interspersed among the chapters. Current industry practices followed in development, such as computer aided software engineering, have also been included, as are important topics like 'Widget based GUI' and 'Windows Management System'. The book also has coverage on interdisciplinary topics in software engineering that will be useful for software professionals, such as 'quality management', 'project management', 'metrics' and 'quality standards'. Features Covers both function oriented as well as object oriented (OO) approach Emphasis on emerging areas such as 'Web engineering', 'software maintenance' and 'component based software engineering' A number of line diagrams and examples Case Studies on the ATM system and milk dispenser Includes multiple-choice, objective-type questions and frequently asked questions with answers.

Software Engineering Apr 28 2023 Our new Indian original book on software engineering covers conventional as well as current methodologies of software development to explain core concepts, with a number of case studies and worked-out examples interspersed among the chapters. Current industry practices followed in development, such as

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Control and Signal Processing Applications for Mobile and Aerial Robotic Systems Jun 18 2022 As technology continues to develop, certain innovations are beginning to cover a wide range of applications, specifically mobile robotic systems. The boundaries between the various automation methods and their implementations are not strictly defined, with overlaps occurring. Specificity is required regarding the research and development of android systems and how they pertain to modern science. Control and Signal Processing Applications for Mobile and Aerial Robotic Systems is a pivotal reference source that provides vital research on the current state of control and signal processing of portable robotic designs. While highlighting topics such as digital systems, control theory, and mathematical methods, this publication explores original inquiry contributions and the instrumentation of mechanical systems in the industrial and scientific fields. This book is ideally designed for technicians, engineers, industry specialists, researchers, academicians, and students seeking current research on today's execution of mobile robotic schemes.

Research Anthology on Diagnosing and Treating Neurocognitive Disorders May 05 2021 Cognitive impairment, through Alzheimer's disease or other related forms of dementia, is a serious concern for afflicted individuals and their caregivers. Understanding patients' mental states and combatting social stigmas are important considerations in caring for cognitively impaired individuals. Technology is playing an increasing role in the lives of the elderly. One of the most prevalent developments for the aging population is the use of technological innovations for intervention and treatment of individuals with mental impairments. Research Anthology on Diagnosing and Treating Neurocognitive Disorders examines the treatment, diagnosis, prevention, and therapeutic and technological interventions of

neurodegenerative disorders. It also describes programs and strategies that professional and family caregivers can implement to engage and improve the quality of life of persons suffering from cognitive impairment. Highlighting a range of topics such as dementia, subjective wellbeing, and cognitive decline, this publication is an ideal reference source for speech pathologists, social workers, occupational therapists, psychologists, psychiatrists, neurologists, pediatricians, researchers, clinicians, and academicians seeking coverage on neurocognitive disorder identification and strategies for clinician support and therapies.

Cyberlaw for Global E-business: Finance, Payments and Dispute Resolution Dec 12 2021 Examines cyberlaw topics such as cybercrime and risk management, electronic trading systems of securities, digital currency regulation, jurisdiction and consumer protection in cross-border markets, and international bank transfers.

Advances in Interdisciplinary Engineering Mar 23 2020 This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2018). The book discusses interdisciplinary areas such as automobile engineering, mechatronics, applied and structural mechanics, bio-mechanics, biomedical instrumentation, ergonomics, biodynamic modeling, nuclear engineering, agriculture engineering, and farm machineries. The contents of the book will benefit both researchers and professionals.

Research Anthology on Improving Medical Imaging Techniques for Analysis and Intervention Nov 11 2021 Medical imaging provides medical professionals the unique ability to investigate and diagnose injuries and illnesses without being intrusive. With the surge of technological advancement in recent years, the practice of medical imaging has only been improved through these technologies and procedures. It is essential to examine these innovations in medical imaging to implement and improve the practice around the world. The Research Anthology on Improving Medical Imaging Techniques for Analysis and Intervention investigates and presents the recent innovations, procedures, and technologies implemented in medical imaging. Covering topics such as automatic detection, simulation in medical education, and neural networks, this major reference work is an excellent resource for radiologists, medical professionals, hospital administrators, medical educators and students, librarians, researchers, and academicians.

Computational Signal Processing and Analysis Apr 04 2021 This book comprises a collection of papers by international experts, presented at the

International Conference on NextGen Electronic Technologies (ICNETS2-2017). ICNETS2 encompassed six symposia covering all aspects of electronics and communications engineering domains, including relevant nano/micro materials and devices. Featuring the latest research on computational signal processing and analysis, the book is useful to researchers, professionals, and students working in the core areas of electronics and their applications, especially signal processing, embedded systems, and networking.

Mechanical Engineering for Sustainable Development: State-of-the-Art Research Feb 02 2021 This volume provides valuable insight into diverse topics related to mechanical engineering and presents state-of-the-art work on sustainable development being carried out throughout the world by budding researchers and scientists. Divided into three sections, the volume covers machine design, materials and manufacturing, and thermal engineering. It presents innovative research work on machine design that is of relevance to such varied fields as the automotive industry, agriculture, and human anatomy. The second section addresses materials characterization, an important tool in assessing proper materials for application-oriented jobs, and emerging unconventional machining processes that are important in design engineering for new products and tools. The section on thermal engineering broadly covers the use of viable alternate fuels, such as HHO, biodiesel, etc., with the objective of reducing the burden on petroleum reserves and the environment.

Design Solutions for Improving Website Quality and Effectiveness Feb 14 2022 As the Internet has evolved to become an integral part of modern society, the need for better quality assurance practices in web engineering has heightened. Adherence to and improvement of current standards ensures that overall web usability and accessibility are at optimum efficiency. Design Solutions for Improving Website Quality and Effectiveness is an authoritative reference source for the latest breakthroughs, techniques, and research-based solutions for the overall improvement of the web designing process. Featuring relevant coverage on the analytics, metrics, usage, and security aspects of web environments, this publication is ideally designed for reference use by engineers, researchers, graduate students, and web designers interested in the enhancement of various types of websites.

Smart Manufacturing Technologies for Industry 4.0 Jul 07 2021 This book addresses issues related to the integration of digital evolutionary technologies and provides solutions to various challenges encountered

during the implementation process. With real-time case studies, the book explains the smart technologies available and their operational applications and benefits in the manufacturing sector. Smart Manufacturing Technologies for Industry 4.0: Integration, Benefits, and Operational Activities assists in the understanding of the shifting paradigm in the manufacturing sector towards smart manufacturing and spotlights these technologies and the effects they are having on existing industries. It showcases Industry 4.0 as a promising research area in its infancy and offers insights into the role smart technologies are playing now and into the future. The book focuses on smart technologies' rudiments, implementation, and integration for organizational development and offers insights on how to achieve resiliency through and because of these technologies. This book presents real-time implementation discussions along with case studies that emphasize benefits and operational activities for engineers and managers. It's also a very useful book for technology developers, academicians, data scientists, industrial engineers, researchers, and students interested in uncovering the latest innovations in a field that seeks current research on products and services.

Engineering Economics and Costing Oct 30 2020

Digital Business Models May 25 2020 The spread of the Internet into all areas of business activities has put a particular focus on business models. The digitalization of business processes is the driver of changes in company strategies and management practices alike. This textbook provides a structured and conceptual approach, allowing students and other readers to understand the commonalities and specifics of the respective business models. The book begins with an overview of the business model concept in general by presenting the development of business models, analyzing definitions of business models and discussing the significance of the success of business model management. In turn, Chapter 2 offers insights into and explanations of the business model concept and provides the underlying approaches and ideas behind business models. Building on these foundations, Chapter 3 outlines the fundamental aspects of the digital economy. In the following chapters the book examines various core models in the business to consumer (B2C) context. The chapters follow a 4-C approach that divides the digital B2C businesses into models focusing on content, commerce, context and connection. Each chapter describes one of the four models and provides information on the respective business model types, the value chain, core assets and competencies as well as a case study. Based on the example of

Google, Chapter 8 merges these approaches and describes the development of a hybrid digital business model. Chapter 9 is dedicated to business-to-business (B2B) digital business models. It shows how companies focus on business solutions such as online provision of sourcing, sales, supportive collaboration and broker services. Chapter 10 shares insight into the innovation aspect of digital business models, presenting structures and processes of digital business model innovation. The book is rounded out by a comprehensive case study on Google/Alphabet that combines all aspects of digital business models. Conceived as a textbook for students in advanced undergraduate courses, the book will also be useful for professionals and practitioners involved in business model innovation, and applied researchers.

Diagram UML Dalam Membuat Aplikasi Android Firebase "Studi Kasus Aplikasi Bank Sampah" Mar 03 2021 UML (Unified Modeling Language) adalah bahasa yang berdasarkan grafik atau gambar untuk memvisualisasi, menspesifikasikan, membangun dan pendokumentasian dari sebuah sistem pengembangan software berbasis OO (Object Oriented). UML sendiri juga memberikan standar penulisan sebuah sistem blue print, yang meliputi konsep bisnis proses, penulisan kelas–kelas dalam bahasa program yang spesifik, skema database dan komponen–komponen yang diperlukan dalam software. Pendekatan analisa dan rancangan dengan menggunakan model OO mulai diperkenalkan sekitar pertengahan tahun 1970 hingga akhir 1980 dikarenakan pada saat itu aplikasi software sudah meningkat dan mulai komplek. Jumlah yang menggunakan metode OO mulai diuji cobakan dan diaplikasikan antara tahun 1989–1994, seperti halnya oleh grady Booch dari Rational Sotfware Co., serta James Rumbaugh dari General Electric, dikenal dengan OMT (Object Modelling Technique).Kelemahan saat itu disadari oleh Booch maupun Rumbaugh adalah tidak adanya standar penggunaan model yang berbasis OO, katika mereka bertemu ditemani rekan lainnya Ivar Jacobson dari Objectory mulai mendiskusikan untuk mengadopsi masing-masing pendekatan metode OO untuk membuat suatu model bahasa yang uniform atau seragam yang disebut UML (Unified Modeling language) dan dapat digunakan oleh seluruh dunia.Diagram-diagram UML. Diagram UML Dalam Membuat Aplikasi Android Firebase "Studi Kasus Aplikasi Bank Sampah" ini diterbitkan oleh Penerbit Deepublish dan tersedia juga dalam versi cetak.

Examining Fractal Image Processing and Analysis Nov 23 2022 Digital image processing is a field that is constantly improving. Gaining high-level understanding from digital images is a key requirement for computing. One

aspect of study that is assisting with this advancement is fractal theory. This new science has gained momentum and popularity as it has become a key topic of research in the area of image analysis. Examining Fractal Image Processing and Analysis is an essential reference source that discusses fractal theory applications and analysis, including box-counting analysis, multi-fractal analysis, 3D fractal analysis, and chaos theory, as well as recent trends in other soft computing techniques. Featuring research on topics such as image compression, pattern matching, and artificial neural networks, this book is ideally designed for system engineers, computer engineers, professionals, academicians, researchers, and students seeking coverage on problem-oriented processing techniques and imaging technologies.

Advances in Intelligent Computing and Communication Apr 16 2022 The book presents high-quality research papers presented at 4th International Conference on Intelligent Computing and Advances in Communication (ICAC 2021) organized by Siksha 'O' Anusandhan, Deemed to be University, Bhubaneswar, Odisha, India, in November 2021. This book brings out the new advances and research results in the fields of theoretical, experimental, and applied signal and image processing, soft computing, networking, and antenna research. Moreover, it provides a comprehensive and systematic reference on the range of alternative conversion processes and technologies.

L-System Fractals Oct 10 2021 L-System Fractals covers all the fundamental aspects of generating fractals through L-system. Also it provides insight to various researches in this area for generating fractals through L-system approach & estimating dimensions. Also it discusses various applications of L-system fractals. Fractals generated from L-System including hybrid fractals Dimension calculation for L-system fractals Images and codes for L-system fractals Research directions in the area of L-system fractals Usage of various freely downloadable tools in this area

Data Structures Through C Feb 20 2020

Numerical Linear Algebra Jan 21 2020 This well-organized text provides a clear analysis of the fundamental concepts of numerical linear algebra. It presents various numerical methods for the basic topics of linear algebra with a detailed discussion on theory, algorithms, and MATLAB implementation. The book provides a review of matrix algebra and its important results in the opening chapter and examines these results in the subsequent chapters. With clear explanations, the book analyzes different

kinds of numerical algorithms for solving linear algebra such as the elimination and iterative methods for linear systems, the condition number of a matrix, singular value decomposition (SVD) of a matrix, and linear least-squares problem. In addition, it describes the Householder and Givens matrices and their applications, and the basic numerical methods for solving the matrix eigenvalue problem. Finally, the text reviews the numerical methods for systems and control. Key Features Includes numerous worked-out examples to help students grasp the concepts easily. ? Provides chapter-end exercises to enable students to check their comprehension of the topics discussed. ? Gives answers to exercises with hints at the end of the book. ? Uses MATLAB software for problem-solving. Primarily designed as a textbook for postgraduate students of Mathematics, this book would also serve as a handbook on matrix computations for scientists and engineers.

Hypermedia Design Apr 23 2020 This is the latest volume in the 'Workshops in Computing' series, and contains papers from the International Workshop on Hpyermedia Design, held in Montpellier, France, from 1 - 2 June 1995. The workshop aimed to provide a forum for researchers and practitioners from a variety of backgrounds to discuss the many facets of hypermedia design. Among the specific topics covered by the papers are: design methods, multimedia modelling, higher structures in hypermedia design spaces, user-interface design for hypermedia, building distributed web applications, and hyperdialogs. The resulting volume provides a comprehensive overview of the state of the art in this important field. It will be of interest to researchers, practitioners and students involved in any aspect of hypermedia design.

Proceedings of the International Congress on Information and Communication Technology Jan 13 2022 This volume contains 69 papers presented at ICICT 2015: International Congress on Information and Communication Technology. The conference was held during 9th and 10th October, 2015, Udaipur, India and organized by CSI Udaipur Chapter, Division IV, SIG-WNS, SIG-e-Agriculture in association with ACM Udaipur Professional Chapter, The Institution of Engineers (India), Udaipur Local Centre and Mining Engineers Association of India, Rajasthan Udaipur Chapter. This volume contains papers mainly focused on ICT for Managerial Applications, E-governance, IOT and E-Mining.

Social Network Analysis Aug 08 2021 SOCIAL NETWORK ANALYSIS As social media dominates our lives in increasing intensity, the need for developers to understand the theory and applications is ongoing as well.

This book serves that purpose. Social network analysis is the solicitation of network science on social networks, and social occurrences are denoted and premeditated by data on coinciding pairs as the entities of opinion. The book features: Social network analysis from a computational perspective using python to show the significance of fundamental facets of network theory and the various metrics used to measure the social network. An understanding of network analysis and motivations to model phenomena as networks. Real-world networks established with human-related data frequently display social properties, i.e., patterns in the graph from which human behavioral patterns can be analyzed and extracted. Exemplifies information cascades that spread through an underlying social network to achieve widespread adoption. Network analysis that offers an appreciation method to health systems and services to illustrate, diagnose, and analyze networks in health systems. The social web has developed a significant social and interactive data source that pays exceptional attention to social science and humanities research. The benefits of artificial intelligence enable social media platforms to meet an increasing number of users and yield the biggest marketplace, thus helping social networking analysis distribute better customer understanding and aiding marketers to target the right customers. Audience The book will interest computer scientists, AI researchers, IT and software engineers, mathematicians.

Application Development and Design: Concepts, Methodologies, Tools, and Applications May 17 2022 Advancements in technology have allowed for the creation of new tools and innovations that can improve different aspects of life. These applications can be utilized across different technological platforms. Application Development and Design: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on trends, techniques, and uses of various technology applications and examines the benefits and challenges of these computational developments. Highlighting a range of pertinent topics such as software design, mobile applications, and web applications, this multi-volume book is ideally designed for researchers, academics, engineers, professionals, students, and practitioners interested in emerging technology applications.

Advances in Computational Intelligence Jun 25 2020 This two-volume set LNCS 6691 and 6692 constitutes the refereed proceedings of the 11th International Work-Conference on Artificial Neural Networks, IWANN 2011, held in Torremolinos-Málaga, Spain, in June 2011. The 154 revised papers were carefully reviewed and selected from 202 submissions for

presentation in two volumes. The first volume includes 69 papers organized in topical sections on mathematical and theoretical methods in computational intelligence; learning and adaptation; bio-inspired systems and neuro-engineering; hybrid intelligent systems; applications of computational intelligence; new applications of brain-computer interfaces; optimization algorithms in graphic processing units; computing languages with bio-inspired devices and multi-agent systems; computational intelligence in multimedia processing; and biologically plausible spiking neural processing.

Progress in Computing, Analytics and Networking Sep 09 2021 The book focuses to foster new and original research ideas and results in three broad areas: computing, analytics, and networking with its prospective applications in the various interdisciplinary domains of engineering. This is an exciting and emerging interdisciplinary area in which a wide range of theory and methodologies are being investigated and developed to tackle complex and challenging real world problems. It also provides insights into the International Conference on Computing Analytics and Networking (ICCAN 2017) which is a premier international open forum for scientists, researchers and technocrats in academia as well as in industries from different parts of the world to present, interact, and exchange the state of art of concepts, prototypes, innovative research ideas in several diversified fields. The book includes invited keynote papers and paper presentations from both academia and industry to initiate and ignite our young minds in the meadow of momentous research and thereby enrich their existing knowledge. The book aims at postgraduate students and researchers working in the discipline of Computer Science & Engineering. It will be also useful for the researchers working in the domain of electronics as it contains some hardware technologies and forthcoming communication technologies.

Examining Fractal Image Processing and Analysis Oct 22 2022 Digital image processing is a field that is constantly improving. Gaining high-level understanding from digital images is a key requirement for computing. One aspect of study that is assisting with this advancement is fractal theory. This new science has gained momentum and popularity as it has become a key topic of research in the area of image analysis. Examining Fractal Image Processing and Analysis is an essential reference source that discusses fractal theory applications and analysis, including box-counting analysis, multi-fractal analysis, 3D fractal analysis, and chaos theory, as well as recent trends in other soft computing techniques. Featuring

research on topics such as image compression, pattern matching, and artificial neural networks, this book is ideally designed for system engineers, computer engineers, professionals, academicians, researchers, and students seeking coverage on problem-oriented processing techniques and imaging technologies.

Hybrid Intelligence for Smart Grid Systems Jun 06 2021 This book provides an overview of distributed control and distributed optimization theory, followed by specific details on industrial applications to smart grid systems. It discusses the fundamental analysis and design schemes for developing actual working smart grids and covers all aspects concerning the conventional and nonconventional methods of their use. Hybrid Intelligence for Smart Grid Systems provides an overview of a smart grid, along with its needs, benefits, challenges, and existing structure and describes the inverter topologies adopted for integrating renewable power, and provides an overview of its needs, benefits, challenges, and possible future technologies. This pioneering book is a must-read for researchers, engineering professionals, and students, giving them the tools needed to move from the concept of a smart grid to its actual design and implementation. Moreover, it will enable regulators, policymakers, and energy executives to understand the future of energy delivery systems towards safe, economical, high-quality power delivery in a dynamic and demanding environment.

Smart Sensor Networks Using AI for Industry 4.0 Jan 25 2023 Smart Sensor Networks (WSNs) using AI have left a mark on the lives of all by aiding in various sectors, such as manufacturing, education, healthcare, and monitoring of the environment and industries. This book covers recent AI applications and explores aspects of modern sensor technologies and the systems needed to operate them. The book reviews the fundamental concepts of gathering, processing, and analyzing different AI-based models and methods. It covers recent WSN techniques for the purpose of effective network management on par with the standards laid out by international organizations in related fields and focuses on both core concepts along with major applicational areas. The book will be used by technical developers, academicians, data sciences, industrial professionals, researchers, and students interested in the latest innovations on problem-oriented processing techniques in sensor networks using IoT and evolutionary computer applications for Industry 4.0.

Histopathological Image Analysis in Medical Decision Making Jul 19 2022

Medical imaging technologies play a significant role in visualization and interpretation methods in medical diagnosis and practice using decision making, pattern classification, diagnosis, and learning. Progressions in the field of medical imaging lead to interdisciplinary discovery in microscopic image processing and computer-assisted diagnosis systems, and aids physicians in the diagnosis and early detection of diseases. Histopathological Image Analysis in Medical Decision Making provides emerging research exploring the theoretical and practical applications of image technologies and feature extraction procedures within the medical field. Featuring coverage on a broad range of topics such as image classification, digital image analysis, and prediction methods, this book is ideally designed for medical professionals, system engineers, medical students, researchers, and medical practitioners seeking current research on problem-oriented processing techniques in imaging technologies.

Web Engineering and Applications Feb 26 2023 Presents a rigorous approach to the development of Web applications, covering Web development concepts, methods, tools and techniques. The book highlights the requirements, design and security aspects of Web engineering.

Boundary Element Analysis Nov 30 2020 Boundary Element Analysis: Theory and Programming introduces the theory behind the boundary element method and its computer applications. The author uses Cartesian tensor notation throughout the book and includes the steps involved in deriving many of the equations. The text includes computer programs in Fortran 77 for elastostatic, plate bending, and free and forced vibration problems with detailed descriptions of the code.

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