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Biometric Recognition Zhenan Sun 2014-10-29 This book constitutes the refereed proceedings of the 9th Chinese Conference on Biometric Recognition, CCBR 2014, held in Shenyang, China, in November 2014. The 60 revised full papers presented were carefully reviewed and selected from among 90 submissions. The papers focus on face, fingerprint and palmprint, vein biometrics, iris and ocular biometrics, behavioral biometrics, application and system of biometrics, multi-biometrics and information fusion, other biometric recognition and processing.

Advanced Imaging Methods in Neuroscience João O. Malva 2022-01-11

Intelligent Robotics and Applications Xianmin Zhang 2014-11-15 This two volume set LNAI 8917 and 8918 constitutes the refereed proceedings of the 7th International Conference on Intelligent Robotics and Applications, ICIRA 2014, held in Guangzhou, China, in December 2014. The 109 revised full papers presented were carefully reviewed and selected from 159 submissions. The papers aim at enhancing the sharing of individual experiences and expertise in intelligent robotics with particular emphasis on technical challenges associated with varied applications such as biomedical applications, industrial automations, surveillance, and sustainable mobility.

Digital TV and Wireless Multimedia Communication Xiaokang Yang

2017-03-11 This book constitutes the refereed proceedings of the 13th International Forum of Digital TV and Wireless Multimedia Communication, IFTC 2016, held in Shanghai, China, in November 2016. The 38 revised full papers presented were carefully reviewed and selected from 102 submissions. The papers are organized in topical sections on image processing; audio processing; image and video compression; telecommunications.

Learning to Teach in the Secondary School Susan Capel 2022-07-29

The market leading text for beginning teachers on all undergraduate, postgraduate and school-based routes to QTS, this is an essential introduction to the key skills and knowledge needed to become a successful teacher. Offering advice on all aspects of teaching and learning, this ninth edition has been thoroughly updated to reflect changes in the field and covers key new topics, including the science of learning, online pedagogies and working with your mentor. There are also expanded units on diversity and inclusion and teacher wellbeing. The text includes a wealth of examples and tasks to support you in successfully applying theory to practice, and in critically reflecting on and analysing your practice to maximise pupil learning. The wide range of pedagogical features supports both school- and university-based work up to Masters level. Written by experts in the field, the 41 concise units are underpinned by evidence-informed practice and focus on what you

need to know to thrive in the classroom, including: lesson planning; curriculum; managing behaviour; online lessons and digital resources; effective communication with pupils; how pupils learn; assessment, marking and feedback; diversity and inclusion; special educational needs and disabilities (SEND); managing stress, workload and time; applying for jobs, developing as a professional and networking. The book is extended and enhanced through a companion website that includes: Animated explainer videos, to introduce and summarise key topics; A selection of downloadable and editable tables and figures from the book, so that the most practical elements can be taken out of study and into practice; Additional material and interactive features to support selected units, such as focus questions for lesson observations, and flashcards to help analyse student behaviour; Bonus content, including 'Starting to Teach' chapters and a mapping document, supporting you to make links between the ninth edition chapters and key teaching standards. Supported by the subject-specific titles in the Learning to Teach Subjects in the Secondary School and A Practical Guide to Teaching Subjects in the Secondary School Series, it is an essential purchase for every aspiring secondary school teacher.

Computer Supported Cooperative Work and Social Computing Yuqing Sun 2022 The two-volume set CCIS 1491 and 1492 constitutes the refereed post-conference proceedings of the 16th CCF Conference on Computer Supported Cooperative Work and Social Computing, ChineseCSCW 2021, held in Xiangtan, China, November 26-28, 2021. The conference was held in a hybrid mode i.e. online and on-site in Xiangtan due to the COVID-19 crisis. The 65 revised full papers and 22 revised short papers were carefully reviewed and selected from 242 submissions. The papers are organized in the following topical sections: Volume I: Collaborative Mechanisms, Models, Approaches, Algorithms and Systems; Cooperative Evolutionary Computation and Human-like Intelligent Collaboration; Domain-Specific Collaborative Applications; Volume II: Crowd Intelligence and Crowd Cooperative Computing; Social Media and Online Communities.

AQA GCSE English Language: AQA GCSE English Language Student

Book 1 Helen Backhouse 2015-01-01 This book develops the reading and writing skills that students will be assessed on in the exams. Using a thematic approach that focuses on the AOs, with SPAG delivered in context, this book supports students of all abilities. Peer and self-assessment activities, end-of-chapter assessments and sample exam papers allow progress to be monitored.

Marine Geomorphometry Vanessa Lucieer 2019-06-25 Geomorphometry is the science of quantitative terrain characterization and analysis, and has traditionally focused on the investigation of terrestrial and planetary landscapes. However, applications of marine geomorphometry have now moved beyond the simple adoption of techniques developed for terrestrial studies, driven by the rise in the acquisition of high-resolution seafloor data and by the availability of user-friendly spatial analytical tools. Considering that the seafloor represents 71% of the surface of our planet, this is an important step towards understanding the Earth in its entirety. This volume is the first one dedicated to marine applications of geomorphometry. It showcases studies addressing the five steps of geomorphometry: sampling a surface (e.g., the seafloor), generating a Digital Terrain Model (DTM) from samples, preprocessing the DTM for subsequent analyses (e.g., correcting for errors and artifacts), deriving terrain attributes and/or extracting terrain features from the DTM, and using and explaining those terrain attributes and features in a given context. Throughout these studies, authors address a range of challenges and issues associated with applying geomorphometric techniques to the complex marine environment, including issues related to spatial scale, data quality, and linking seafloor topography with physical, geological, biological, and ecological processes. As marine geomorphometry becomes increasingly recognized as a sub-discipline of geomorphometry, this volume brings together a collection of research articles that reflect the types of studies that are helping to chart the course for the future of marine geomorphometry.

Foundations of Data Science Avrim Blum 2020-01-23 This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning, high-

dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of and important algorithms for machine learning, algorithms and analysis for clustering, probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed including the law of large numbers, tail inequalities, analysis of random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and analysis of algorithms for data.

Science and Applications of Coastal Remote Sensing Kevin Ross Turpie 2021-06-01 IN MEMORIAL: This Research Topic is dedicated to our co-editor Dr. Tiffany Moisan, a well-regarded ocean color remote sensing scientist, who unexpectedly passed away during its preparation. Dr. Moisan was a dear friend, and upbeat and enthusiastic colleague and a scientist committed to the use of remote sensing to improve our understanding of marine microbiology and phytoplankton ecology. She was a strong supporter of the development of remote sensing capabilities and applications for coastal and inland waters, and we know that she would have wanted this Research Topic to provide her colleagues an opportunity to share and promote their work in this area. A voice in our community is now quiet. Let the chorus of our shared song continue with her memory. Dr. Tiffany Moisan is survived by her loving family, including her husband, Dr. John Moisan and her two daughters.

Digital TV and Wireless Multimedia Communication Guangtao Zhai 2018-02-02 This book presents revised selected papers from the 14th International Forum on Digital TV and Wireless Multimedia Communication, IFTC 2017, held in Shanghai, China, in November 2017. The 46 papers presented in this volume were carefully reviewed and

selected from 122 submissions. They were organized in topical sections named: image processing; machine learning; quality assessment; social media; telecommunications; video surveillance; virtual reality; computer vision; and image compression.

The Economics of Discrimination Gary S. Becker 2010-08-15 This second edition of Gary S. Becker's *The Economics of Discrimination* has been expanded to include three further discussions of the problem and an entirely new introduction which considers the contributions made by others in recent years and some of the more important problems remaining. Mr. Becker's work confronts the economic effects of discrimination in the market place because of race, religion, sex, color, social class, personality, or other non-pecuniary considerations. He demonstrates that discrimination in the market place by any group reduces their own real incomes as well as those of the minority. The original edition of *The Economics of Discrimination* was warmly received by economists, sociologists, and psychologists alike for focusing the discerning eye of economic analysis upon a vital social problem—discrimination in the market place. "This is an unusual book; not only is it filled with ingenious theorizing but the implications of the theory are boldly confronted with facts. . . . The intimate relation of the theory and observation has resulted in a book of great vitality on a subject whose interest and importance are obvious."—M.W. Reder, *American Economic Review* "The author's solution to the problem of measuring the motive behind actual discrimination is something of a tour de force. . . . Sociologists in the field of race relations will wish to read this book."—Karl Schuessler, *American Sociological Review*

Geo-Informatics in Resource Management and Sustainable Ecosystem Fuling Bian 2016-01-12 This volume constitutes the refereed proceedings of the Third International Conference on Geo-Informatics in Resource Management and Sustainable Ecosystem, GRMSE 2015, held in Wuhan, China, in October 2015. The 101 papers presented were carefully reviewed and selected from 321 submissions. The papers are divided into topical sections on Smart City in Resource Management and Sustainable Ecosystem; Spatial Data Acquisition Through RS and GIS in

Resource Management and Sustainable Ecosystem; Ecological and Environmental Data Processing and Management; Advanced Geospatial Model and Analysis for Understanding Ecological and Environmental Process; Applications of Geo-Informatics in Resource Management and Sustainable Ecosystem.

InSAR Crustal Deformation Monitoring, Modeling and Error Analysis Yu Chen 2022-10-11

Artificial Intelligence Applications in Specialty Crops Yiannis Ampatzidis 2022-03-02

Computer Vision -- ACCV 2014 Daniel Cremers 2015-04-16 The five-volume set LNCS 9003--9007 constitutes the thoroughly refereed post-conference proceedings of the 12th Asian Conference on Computer Vision, ACCV 2014, held in Singapore, Singapore, in November 2014. The total of 227 contributions presented in these volumes was carefully reviewed and selected from 814 submissions. The papers are organized in topical sections on recognition; 3D vision; low-level vision and features; segmentation; face and gesture, tracking; stereo, physics, video and events; and poster sessions 1-3.

What can simple brains teach us about how vision works Davide Zoccolan 2015-11-18 Vision is the process of extracting behaviorally-relevant information from patterns of light that fall on retina as the eyes sample the outside world. Traditionally, nonhuman primates (macaque monkeys, in particular) have been viewed by many as the animal model-of-choice for investigating the neuronal substrates of visual processing, not only because their visual systems closely mirror our own, but also because it is often assumed that "simpler" brains lack advanced visual processing machinery. However, this narrow view of visual neuroscience ignores the fact that vision is widely distributed throughout the animal kingdom, enabling a wide repertoire of complex behaviors in species from insects to birds, fish, and mammals. Recent years have seen a resurgence of interest in alternative animal models for vision research, especially rodents. This resurgence is partly due to the availability of increasingly powerful experimental approaches (e.g., optogenetics and two-photon imaging) that are challenging to apply to their full potential

in primates. Meanwhile, even more phylogenetically distant species such as birds, fish, and insects have long been workhorse animal models for gaining insight into the core computations underlying visual processing. In many cases, these animal models are valuable precisely because their visual systems are simpler than the primate visual system. Simpler systems are often easier to understand, and studying a diversity of neuronal systems that achieve similar functions can focus attention on those computational principles that are universal and essential. This Research Topic provides a survey of the state of the art in the use of animal models of visual functions that are alternative to macaques. It includes original research, methods articles, reviews, and opinions that exploit a variety of animal models (including rodents, birds, fishes and insects, as well as small New World monkey, the marmoset) to investigate visual function. The experimental approaches covered by these studies range from psychophysics and electrophysiology to histology and genetics, testifying to the richness and depth of visual neuroscience in non-macaque species.

Microenvironment in Disease and Aging Mark A. LaBarge 2020-01-24

Advances in Computational Intelligence Ignacio Rojas 2017-06-04 This two-volume set LNCS 10305 and LNCS 10306 constitutes the refereed proceedings of the 14th International Work-Conference on Artificial Neural Networks, IWANN 2017, held in Cadiz, Spain, in June 2017. The 126 revised full papers presented in this double volume were carefully reviewed and selected from 199 submissions. The papers are organized in topical sections on Bio-inspired Computing; E-Health and Computational Biology; Human Computer Interaction; Image and Signal Processing; Mathematics for Neural Networks; Self-organizing Networks; Spiking Neurons; Artificial Neural Networks in Industry ANNI'17; Computational Intelligence Tools and Techniques for Biomedical Applications; Assistive Rehabilitation Technology; Computational Intelligence Methods for Time Series; Machine Learning Applied to Vision and Robotics; Human Activity Recognition for Health and Well-Being Applications; Software Testing and Intelligent Systems;

Real World Applications of BCI Systems; Machine Learning in Imbalanced Domains; Surveillance and Rescue Systems and Algorithms for Unmanned Aerial Vehicles; End-User Development for Social Robotics; Artificial Intelligence and Games; and Supervised, Non-Supervised, Reinforcement and Statistical Algorithms.

Advances in Aerospace Guidance, Navigation and Control Bogusław Dołęga 2017-12-15 The first three CEAS (Council of European Aerospace Societies) Specialist Conferences on Guidance, Navigation and Control (CEAS EuroGNC) were held in Munich, Germany in 2011, in Delft, Netherlands in 2013 and in Toulouse, France in 2017. The Warsaw University of Technology (WUT) and the Rzeszow University of Technology (RzUT) accepted the challenge of jointly organizing the 4th edition. The conference aims to promote scientific and technical excellence in the fields of Guidance, Navigation and Control (GNC) in aerospace and other fields of technology. The Conference joins together the industry with the academia research. This book covers four main topics: Guidance and Control, Control Theory Application, Navigation, UAV Control and Dynamic. The papers included focus on the most advanced and actual topics in guidance, navigation and control research areas: · Control theory, analysis, and design · ; Novel navigation, estimation, and tracking methods · Aircraft, spacecraft, missile and UAV guidance, navigation, and control · Flight testing and experimental results · Intelligent control in aerospace applications · Aerospace robotics and unmanned/autonomous systems · Sensor systems for guidance, navigation and control · Guidance, navigation, and control concepts in air traffic control systems For the 4th CEAS Specialist Conference on Guidance, Navigation and Control the International Technical Committee established a formal review process. Each paper was reviewed in compliance with good journal practices by independent and anonymous reviewers. At the end of the review process papers were selected for publication in this book.

The built environment and public health: New insights Linchuan Yang 2023-02-06

Basic and applied research on deception and its detection

Wolfgang Ambach 2014-08-07 Deception is a ubiquitous phenomenon in social interactions and has attracted a significant amount of research during the last decades. The majority of studies in this field focused on how deception modulates behavioral, autonomic, and brain responses and whether these changes can be used to validly identify lies. Especially the latter question, which historically gave rise to the development of psychophysiological “lie detection” techniques, has been driving research on deception and its detection until today. The detection of deception and concealed information in forensic examinations currently constitutes one of the most frequent applications of psychophysiological methods in the field. With the increasing use of such methods, the techniques for detecting deception have been controversially discussed in the scientific community. It has been proposed to shift from the original idea of detecting deception per se to a more indirect approach that allows for determining whether a suspect has specific knowledge of crime-related details. This so-called Concealed Information Test is strongly linked to basic psychological concepts concerning memory, attention, orienting, and response monitoring. Although research in this field has intensified with the advancement of neuroimaging techniques such as PET and fMRI in the last decade, basic questions on the psychological mechanisms underlying modulatory effects of deception and information concealment on behavioral, autonomic, and brain responses are still poorly understood. This Research Topic brings together contributions from researchers in experimental psychology, psychophysiology, and neuroscience focusing on the understanding of the broad concept of deception including the detection of concealed information, with respect to basic research questions as well as applied issues. This Research Topic is mainly composed of original research articles but reviews and papers elaborating on novel methodological approaches have also been included. Experimental methods include, but are not limited to, behavioral, autonomic, electroencephalographic or brain imaging techniques that allow for revealing relevant facets of deception on a multimodal level. While this Research Topic primarily includes laboratory work, relevant issues for the field use of such

methods are also discussed.

ICPMG2014 - Physical Modelling in Geotechnics Christophe Gaudin

2019-01-08 The 8th International Conference on Physical Modelling in Geotechnics (ICPMG2014) was organised by the Centre for Offshore Foundation Systems at the University of Western Australia under the auspices of the Technical Committee 104 for Physical Modelling in Geotechnics of the International Society of Soil Mechanics and Geotechnical Engineering. This quadrennial conference is the traditional focal point for the physical modelling community of academics, scientists and engineers to present and exchange the latest developments on a wide range of physical modelling aspects associated with geotechnical engineering. These proceedings, together with the seven previous proceedings dating from 1988, present an inestimable collection of the technical and scientific developments and breakthroughs established over the last 25 years. These proceedings include 10 keynote lectures from scientific leaders within the physical modelling community and 160 peer-reviewed papers from 26 countries. They are organised in 14 themes, presenting the latest developments in physical modelling technology, modelling techniques and sensors, through a wide range of soil-structure interaction problems, including shallow and deep foundations, offshore geotechnics, dams and embankments, excavations and retaining structures and slope stability. Fundamental aspects of earthquake engineering, geohazards, ground reinforcements and improvements, and soil properties and behaviour are also covered, demonstrating the increasing complexity of modelling arising from state-of-the-art technological developments and increased understanding of similitude principles. A special theme on education presents the latest developments in the use of physical modelling techniques for instructing undergraduate and postgraduate students in geotechnical engineering.

Hustle and Gig Alexandra J. Ravenelle 2019-03-12 Choose your hours, choose your work, be your own boss, control your own income. Welcome to the sharing economy, a nebulous collection of online platforms and apps that promise to transcend capitalism. Supporters argue that the gig economy will reverse economic inequality, enhance worker rights, and

bring entrepreneurship to the masses. But does it? In *Hustle and Gig*, Alexandra J. Ravenelle shares the personal stories of nearly eighty predominantly millennial workers from Airbnb, Uber, TaskRabbit, and Kitchensurfing. Their stories underline the volatility of working in the gig economy: the autonomy these young workers expected has been usurped by the need to maintain algorithm-approved acceptance and response rates. The sharing economy upends generations of workplace protections such as worker safety; workplace protections around discrimination and sexual harassment; the right to unionize; and the right to redress for injuries. Discerning three types of gig economy workers—Success Stories, who have used the gig economy to create the life they want; Strugglers, who can't make ends meet; and Strivers, who have stable jobs and use the sharing economy for extra cash—Ravenelle examines the costs, benefits, and societal impact of this new economic movement. Poignant and evocative, *Hustle and Gig* exposes how the gig economy is the millennial's version of minimum-wage precarious work.

Object-Based Image Analysis Thomas Blaschke 2008-08-09 This book brings together a collection of invited interdisciplinary perspectives on the recent topic of Object-based Image Analysis (OBIA). Its content is based on select papers from the 1st OBIA International Conference held in Salzburg in July 2006, and is enriched by several invited chapters. All submissions have passed through a blind peer-review process resulting in what we believe is a timely volume of the highest scientific, theoretical and technical standards. The concept of OBIA first gained widespread interest within the GIScience (Geographic Information Science) community circa 2000, with the advent of the first commercial software for what was then termed 'object-oriented image analysis'. However, it is widely agreed that OBIA builds on older segmentation, edge-detection and classification concepts that have been used in remote sensing image analysis for several decades. Nevertheless, its emergence has provided a new critical bridge to spatial concepts applied in multiscale landscape analysis, Geographic Information Systems (GIS) and the synergy between image-objects and their radiometric characteristics and analyses in Earth Observation data (EO).

Multi-Sensor Information Fusion Xue-Bo Jin 2020-03-23 This book includes papers from the section "Multisensor Information Fusion", from Sensors between 2018 to 2019. It focuses on the latest research results of current multi-sensor fusion technologies and represents the latest research trends, including traditional information fusion technologies, estimation and filtering, and the latest research, artificial intelligence involving deep learning.

Nature and Environment: The Psychology of Its Benefits and Its Protection Marc Glenn Berman 2017-04-20 Our Research Topic section entitled: "Nature and the environment: The psychology of its benefits and its protection" will have two main lines. The first line of articles will center upon cutting-edge research showing how interacting with nature, can affect health, well-being, and overall improve cognition and affect. Articles in this line will stress in what ways nature can improve psychological functioning and health and also discuss the theories and evidence as to why nature can improve psychological functioning. For this line, we welcome submission of articles that discuss the psychological, health and well-being benefits from interacting with nature as well as submissions that focus on theoretical considerations and underlying mechanisms that lead to the restorative effects of interacting with nature. Given that nature can have a positive impact on psychological functioning and overall health, it is also important to understand the variables that facilitate people's recognition of environmental issues that can help foster a more positive attitude towards the preservation of nature. This brings us to the second line of articles which will center upon the psychological mechanisms that make individuals more or less likely to accept the seriousness of environmental challenges such as climate change. Given the new cutting-edge research in this field we may be able to make individuals more proactive in the protection of the environment and more accepting of policy measures required to mitigate climate change. We see this research topic as a way for psychological scientists to contribute substantially to an important area of public debate and policy. For this line we welcome articles that will focus on ways in which people respond to various framings of policy

relevant information and how morality may play into the individuals policy views that center on climate change and environmental protection.

Management, Information and Educational Engineering Hsiang-Chuan Liu 2015-06-11 This book contains selected Computer, Management, Information and Educational Engineering related papers from the 2014 International Conference on Management, Information and Educational Engineering (MIEE 2014) which was held in Xiamen, China on November 22-23, 2014. The conference aimed to provide a platform for researchers, engineers and academic

E-Learning and Games Abdennour El Rhalibi 2019-07-16 This book constitutes the refereed proceedings of the 12th International Conference on e-Learning and Games, EDUTAINMENT 2018, held in Xi'an, China, in June 2018. The 32 full and 32 short papers presented in this volume were carefully reviewed and selected from 85 submissions. The papers were organized in topical sections named: virtual reality and augmented reality in edutainment; gamification for serious game and training; graphics, imaging and applications; game rendering and animation; game rendering and animation and computer vision in edutainment; e-learning and game; and computer vision in edutainment. *Pattern Recognition* Shutao Li 2014-11-05 The two-volume set CCIS 483 and CCIS 484 constitutes the refereed proceedings of the 6th Chinese Conference on Pattern Recognition, CCPR 2014, held in Changsha, China, in November 2014. The 112 revised full papers presented in two volumes were carefully reviewed and selected from 225 submissions. The papers are organized in topical sections on fundamentals of pattern recognition; feature extraction and classification; computer vision; image processing and analysis; video processing and analysis; biometric and action recognition; biomedical image analysis; document and speech analysis; pattern recognition applications.

1001 Math Problems LearningExpress LLC 2013 1001 math problems will teach you how to: master core concepts to prepare for important exams, learn math rules and how to apply them to problems, learn math skills you can apply when solving problems at all levels, and overcome math anxiety through skills reinforcement and focused practice.

Mathematics for Machine Learning Marc Peter Deisenroth 2020-04-23

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

MEMS Mirrors Huikai Xie 2018-05-04 This book is a printed edition of the Special Issue "MEMS Mirrors" that was published in *Micromachines*

Cloud Computing and Security Zhiqiu Huang 2016-01-04 This book constitutes the proceedings of the International Conference on Cloud Computing and Security (ICCCS 2015) will be held on August 13-15, 2015 in Nanjing, China. The objective of ICCCS 2015 is to provide a forum for researchers, academicians, engineers, industrial professionals, students and government officials involved in the general areas of information security and cloud computing.

Energy Science and Applied Technology ESAT 2016 Zhigang Fang 2016-10-14 The 2016 International Conference on Energy Science and Applied Technology (ESAT 2016) held on June 25-26 in Wuhan, China aimed to provide a platform for researchers, engineers, and academicians, as well as industrial professionals, to present their research results and development activities in energy science and engineering and its applied technology. The themes presented in Energy

Science and Applied Technology ESAT 2016 are: Technologies in Geology, Mining, Oil and Gas; Renewable Energy, Bio-Energy and Cell Technologies; Energy Transfer and Conversion, Materials and Chemical Technologies; Environmental Engineering and Sustainable Development; Electrical and Electronic Technology, Power System Engineering; Mechanical, Manufacturing, Process Engineering; Control and Automation; Communications and Applied Information Technologies; Applied and Computational Mathematics; Methods and Algorithms Optimization; Network Technology and Application; System Test, Diagnosis, Detection and Monitoring; Recognition, Video and Image Processing.

Image Modeling Azriel Rosenfeld 2014-05-10 Image Modeling compiles papers presented at a workshop on image modeling in Rosemont, Illinois on August 6-7, 1979. This book discusses the mosaic models for textures, image segmentation as an estimation problem, and comparative analysis of line-drawing modeling schemes. The statistical models for the image restoration problem, use of Markov random fields as models of texture, and mathematical models of graphics are also elaborated. This text likewise covers the univariate and multivariate random field models for images, stochastic image models generated by random tessellations of the plane, and long crested wave models. Other topics include the Boolean model and random sets, structural basis for image description, and structure in co-occurrence matrices for texture analysis. This publication is useful to specialists and professionals working in the field of image processing.

Artificial Intelligence for Medical Image Analysis of NeuroImaging Data Nanyin Zeng 2020-07-03

Intelligent Computing Theories and Application De-Shuang Huang 2017-07-18 This three-volume set LNCS 10361, LNCS 10362, and LNAI 10363 constitutes the refereed proceedings of the 13th International Conference on Intelligent Computing, ICIC 2017, held in Liverpool, UK, in August 2017. The 221 full papers and 15 short papers of the three proceedings volumes were carefully reviewed and selected from 639 submissions. This second volume of the set comprises 74 papers. The

papers are organized in topical sections such as Pattern Recognition; Image Processing; Virtual Reality and Human-Computer Interaction; Healthcare Informatics Theory and Methods; Genetic Algorithms; Blind Source Separation; Intelligent Fault Diagnosis; Machine Learning; Knowledge Discovery and Data Mining; Gene Expression Array Analysis; Systems Biology; Modeling, Simulation, and Optimization of Biological Systems; Intelligent Computing in Computational Biology; Computational Genomics; Computational Proteomics; Gene Regulation Modeling and Analysis; SNPs and Haplotype Analysis; Protein-Protein Interaction Prediction; Protein Structure and Function Prediction; Next-Gen Sequencing and Metagenomics; Structure Prediction and Folding; Biomarker Discovery; Applications of Machine Learning Techniques to Computational Proteomics, Genomics, and Biological Sequence Analysis; Biomedical Image Analysis; Human-Machine Interaction: Shaping Tools Which Will Shape Us; Protein and Gene Bioinformatics: Analysis, Algorithms and Applications; Special Session on Computer Vision based Navigation; Neural Networks: Theory and Application.

Electronics, Communications and Networks IV Amir Hussain 2015-07-01

The 4th International Conference on Electronic, Communications and Networks (CECNet2014) inherits the fruitfulness of the past three conferences and lays a foundation for the forthcoming next year in Shanghai. CECNet2014 was hosted by Hubei University of Science and Technology, China, with the main objective of providing a comprehensive global forum

Frontier Research and Innovation in Optoelectronics Technology and Industry Khaled Habib 2018-11-15 This book provides an overview of research achievements by industry experts and academic scientists in the subject area of Optoelectronics Technology and Industry. It covers a broad field ranging from Laser Technology and Applications, Optical Communications, Optoelectronic Devices and Integration, Energy Harvesting, to Medical and Biological Applications. Authored by highly-regarded researchers, contributing a wealth of knowledge on Photonics and Optoelectronics, this comprehensive collection of papers offers insight into innovative technologies, recent advances and future trends needed to develop effective research and manage projects. Researchers will benefit considerably when applying the technical information covered in this book.