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Biomedical Engineering and Environmental Engineering David Chan 2015-05-06 This conference series is a forum for enhancing mutual understanding between Biomedical Engineering and Environmental Engineering field.

This proceeding provides contributions from many experts representing industry and academic establishments worldwide. The researchers are from different countries and professional. The conference brought *TPACK: Breakthroughs in Research and Practice*

Management Association, Information Resources
2019-02-01 Educational technologies are becoming commonplace entities in classrooms as they provide more options and support for teachers and students. However, many teachers are finding these technologies difficult to use due to a lack of training and instruction on how to effectively apply them to the classroom. TPACK: Breakthroughs in Research and Practice is an authoritative reference source for the latest research on the integration of technological knowledge, pedagogical knowledge, and content knowledge in the contexts of K-12 education. Highlighting a range of pertinent topics such as pedagogical strategies, blended learning, and technology integration, this publication is an ideal resource for educators, instructional designers, administrators, academicians, and teacher education programs seeking current findings on the implementation of technology in instructional design.

Digital Forensics and Watermarking

Christian Kraetzer 2017-08-09 This book constitutes the refereed proceedings of the 16th International Workshop on Digital Forensics and Watermarking, IWDW 2017, held in Magdeburg, Germany, in August 2017. The 30 papers presented in this volume were carefully reviewed and selected from 48 submissions. The contributions are covering the state-of-the-art theoretical and practical developments in the fields of digital watermarking, steganography and steganalysis, forensics and anti-forensics, visual cryptography, and other multimedia-related security issues. Also included are the papers on two special sessions on biometric image tampering detection and on emerging threats of criminal use of information hiding : usage scenarios and detection approaches.

Handbook of Research on Transforming Mathematics Teacher Education in the Digital Age

Niess, Margaret 2016-04-22 The digital age provides ample opportunities for enhanced learning experiences for students; however, it

can also present challenges for educators who must adapt to and implement new technologies in the classroom. The Handbook of Research on Transforming Mathematics Teacher Education in the Digital Age is a critical reference source featuring the latest research on the development of educators' knowledge for the integration of technologies to improve classroom instruction. Investigating emerging pedagogies for preservice and in-service teachers, this publication is ideal for professionals, researchers, and educational designers interested in the implementation of technology in the mathematics classroom.

Intelligent Technologies and Applications Imran Sarwar Bajwa 2019-03-11 This book constitutes the refereed proceedings of the First International Conference on Intelligent Technologies and Applications, INTAP 2018, held in Bahawalpur, Pakistan, in October 2018. The 68 revised full papers and 6 revised short papers presented were carefully reviewed and selected from 251 submissions. The papers of this volume

are organized in topical sections on AI and health; sentiment analysis; intelligent applications; social media analytics; business intelligence; Natural Language Processing; information extraction; machine learning; smart systems; semantic web; decision support systems; image analysis; automated software engineering.

Graph Drawing and Network Visualization

Fabrizio Frati 2018-01-25 This book constitutes revised selected papers from the 25th International Symposium on Graph Drawing and Network Visualization, GD 2017, held in Boston, MA, USA, in September 2017. The 34 full and 9 short papers presented in this volume were carefully reviewed and selected from 87 submissions. Also included in this book are 2 abstracts of keynote presentations, 16 poster abstracts, and 1 contest report. The papers are organized in topical sections named: straight-line representations; obstacles and visibility; topological graph theory; orthogonal

representations and book embeddings; evaluations; tree drawings; graph layout designs; point-set embeddings; special representations; and beyond planarity.

Statistical Atlases and Computational Models of the Heart: Imaging and Modelling Challenges

Oscar Camara 2014-12-31 This book constitutes the thoroughly refereed post-conference proceedings of the 5th International Workshop on Statistical Atlases and Computational Models of the Heart: Imaging and Modelling Challenges, STACOM 2014, held in conjunction with MICCAI 2014, in Boston, MA, USA, in September 2014. The 30 revised full papers were carefully reviewed and selected from numerous submissions. The papers cover a wide range of topics such as sections on cardiac image processing; atlas construction; statistical modelling of cardiac function across different patient populations; cardiac mapping; cardiac computational physiology; model customization; atlas based functional analysis; ontological

schemata for data and results; integrated functional and structural analyses; as well as the pre-clinical and clinical applicability of these methods.

Entropy in Image Analysis Amelia Carolina Sparavigna 2019-06-24 Image analysis is a fundamental task for extracting information from images acquired across a range of different devices. Since reliable quantitative results are requested, image analysis requires highly sophisticated numerical and analytical methods—particularly for applications in medicine, security, and remote sensing, where the results of the processing may consist of vitally important data. The contributions to this book provide a good overview of the most important demands and solutions concerning this research area. In particular, the reader will find image analysis applied for feature extraction, encryption and decryption of data, color segmentation, and in the support new technologies. In all the contributions, entropy

plays a pivotal role.

Progress in Industrial Mathematics at ECMI

2014 Giovanni Russo 2017-09-04 This book presents a collection of papers emphasizing applications of mathematical models and methods to real-world problems of relevance for industry, life science, environment, finance and so on. The biannual Conference of ECMI (the European Consortium of Mathematics in Industry) held in 2014 focused on various aspects of industrial and applied mathematics. The five main topics addressed at the conference were mathematical models in life science, material science and semiconductors, mathematical methods in the environment, design automation and industrial applications, and computational finance. Several other topics have been treated, such as, among others, optimization and inverse problems, education, numerical methods for stiff pdes, model reduction, imaging processing, multi physics simulation, mathematical models in textile industry. The conference, which brought

together applied mathematicians and experts from industry, provided a unique opportunity to exchange ideas, problems and methodologies, bridging the gap between mathematics and industry and contributing to the advancement of science and technology. The conference has included a presentation of EU-Maths-In (European Network of Mathematics for Industry and Innovation), a recent joint initiative of ECMI and EMS. The proceedings from this conference represent a snapshot of the current activity in industrial mathematics in Europe, and are highly relevant to anybody interested in the latest applications of mathematics to industrial problems.

Combinatorial Image Analysis Reneta P. Barneva 2014-04-23 This volume constitutes the refereed proceedings of the 16th International Workshop on Combinatorial Image Analysis, IWCI 2014, held in Brno, Czech Republic, in May 2014. The 20 revised full papers and 3 invited papers presented were carefully reviewed and

selected from numerous submissions. The topics covered include discrete geometry and topology in imaging science, new results in image representation, segmentation, grouping, and reconstruction, medical image processing.

Image and Graphics Technologies and Applications

Yongtian Wang 2018-08-11 This book constitutes the refereed proceedings of the 13th Chinese Conference on Image and Graphics Technologies and Applications, IGTA 2018, held in Beijing, China in April, 2018. The 64 papers presented were carefully reviewed and selected from 138 submissions. They provide a forum for sharing progresses in the areas of image processing technology; image analysis and understanding; computer vision and pattern recognition; big data mining, computer graphics and VR; as well as image technology applications.

Environment, Energy and Sustainable Development

Wen-Pei Sung 2013-12-17
Environment, Energy and Sustainable

Development brings together 242 peer-reviewed papers presented at the 2013 International Conference on Frontiers of Energy and Environment Engineering, held in Xiamen, China, November 28-29, 2013. The main objective of this proceedings set is to take the environment-energy developments discussion a step further. Volume 1 of the set is devoted to Energy, power and environmental engineering, and volume 2 to Control, information and applications.

Environment, Energy and Sustainable Development is intended to serve as resource material for scientists working on related topics in many disciplines, including environmental science, management science, and energy science and policy analysis, as well as for industry professionals in the wide field of energy and environmental engineering.

Conference proceedings. New perspectives in science education Pixel 2014

Computer Vision and Image Processing

Balasubramanian Raman 2022-07-23 This two-

volume set (CCIS 1567-1568) constitutes the refereed proceedings of the 6th International Conference on Computer Vision and Image Processing, CVIP 2021, held in Rupnagar, India, in December 2021. The 70 full papers and 20 short papers were carefully reviewed and selected from the 260 submissions. The papers present recent research on such topics as biometrics, forensics, content protection, image enhancement/super-resolution/restoration, motion and tracking, image or video retrieval, image, image/video processing for autonomous vehicles, video scene understanding, human-computer interaction, document image analysis, face, iris, emotion, sign language and gesture recognition, 3D image/video processing, action and event detection/recognition, medical image and video analysis, vision-based human GAIT analysis, remote sensing, and more.

Handbook of Computer Animation John Vince 2003 Written by specialists in teaching computer animation, this text addresses key international

topics of computer animation, such as: mathematics, modelling, rendering, and compositing. Each chapter discusses a particular topic and how it is applied, including state-of-the-art techniques that are used in computer animation. The handbook provides a complete and up-to-date picture of computer animation and will be a valuable reference source for programmers, technical directors and animators in computer animation, computer games and special effects and also undergraduate and postgraduate students. The editor, John Vince, has written and edited over 20 books on computer graphics, computer animation and virtual reality.

Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough Vinit Kumar Gunjan 2021-04-26 This book provides a systematic and comprehensive overview of machine learning with cognitive science methods and technologies which have played an important role at the core of practical solutions

for a wide scope of tasks between handheld apps, industrial process control, autonomous vehicles, environmental policies, life sciences, playing computer games, computational theory, and engineering development. The chapters in this book focus on readers interested in machine learning, cognitive and neuro-inspired computational systems – theories, mechanisms, and architecture, which underline human and animal behaviour, and their application to conscious and intelligent systems. In the current version, it focuses on the successful implementation and step-by-step explanation of practical applications of the domain. It also offers a wide range of inspiring and interesting cutting-edge contributions to applications of machine learning and cognitive science such as healthcare products, medical electronics, and gaming. Overall, this book provides valuable information on effective, cutting-edge techniques and approaches for students, researchers, practitioners, and academicians working in the

field of AI, neural network, machine learning, and cognitive science. Furthermore, the purpose of this book is to address the interests of a broad spectrum of practitioners, students, and researchers, who are interested in applying machine learning and cognitive science methods in their respective domains.

Advances in Swarm Intelligence Ying Tan
2014-09-03 This book and its companion volume, LNCS vol. 8794 and 8795 constitute the proceedings of the 5th International Conference on Swarm Intelligence, ICSI 2014, held in Hefei, China in October 2014. The 107 revised full papers presented were carefully reviewed and selected from 198 submissions. The papers are organized in 18 cohesive sections, 3 special sessions and one competitive session covering all major topics of swarm intelligence research and development such as novel swarm-based search methods; novel optimization algorithm; particle swarm optimization; ant colony optimization for travelling salesman problem; artificial bee colony

algorithms; artificial immune system; evolutionary algorithms; neural networks and fuzzy methods; hybrid methods; multi-objective optimization; multi-agent systems; evolutionary clustering algorithms; classification methods; GPU-based methods; scheduling and path planning; wireless sensor networks; power system optimization; swarm intelligence in image and video processing; applications of swarm intelligence to management problems; swarm intelligence for real-world application.

Educating for the 21st Century Suzanne Choo 2016-10-20 All over the world, governments, policymakers, and educators are advocating the need to educate students for the 21st first century. This book provides insights into what this means and the ways 21st century education is theorized and implemented in practice. The first part, "Perspectives: Mapping our futures-in-the-making," uncovers the contradictions, tensions and processes that shape 21st century education discourses. The second part, "Policies:

Constructing the future through policymaking," discusses how 21st century education is translated into policies and the resulting tensions that emerge from top-down, state sanctioned policies and bottom-up initiatives. The third part, "Practices: Enacting the Future in Local Contexts," discusses on-the-ground initiatives that schools in various countries around the world enact to educate their students for the 21st century. This volume includes contributions from leading scholars in the field as well as educators from schools and those working with schools.

Computing with New Resources Cristian S. Calude 2014-12-09 Professor Jozef Gruska is a well known computer scientist for his many and broad results. He was the father of theoretical computer science research in Czechoslovakia and among the first Slovak programmers in the early 1960s. Jozef Gruska introduced the descriptive complexity of grammars, automata, and languages, and is one of the pioneers of parallel (systolic) automata. His other main research

interests include parallel systems and automata, as well as quantum information processing, transmission, and cryptography. He is co-founder of four regular series of conferences in informatics and two in quantum information processing and the Founding Chair (1989-96) of the IFIP Specialist Group on Foundations of Computer Science.

Teaching English to Young Learners Janice Bland 2015-09-24 Aimed at student teachers, educators and practitioners, Teaching English Language to Young Learners outlines and explains the crucial issues, themes and scenarios relating to this area of teaching. Each chapter by a leading international scholar offers a thorough introduction to a central theme of English as a foreign language (EFL) with preteens, with clear presentation of the theoretical background and detailed references for further reading, providing access to the most recent scholarship. Exploring the essential issues critically and in-depth, including the disadvantages as well as

advantages of Teaching English as a Foreign Language (TEFL) with young learners, topics include: - task-based learning in the primary school; - storytelling; - drama; - technology; - vocabulary development; - intercultural understanding; - Content and Language Integrated Learning (CLIL) scenarios; - assessment. Innovative and rapidly emerging topics are covered, such as immersion teaching, picturebooks in the EFL classroom and English with pre-primary children.

The Pixel Eye Paul Levinson 2003-08-02 NYPD forensic detective Dr. Phil D'Amato's latest futuristic adventure pits personal loyalties against public responsibilities, safety against freedom, and the right to know against animal rights, all against a backdrop of a post 9/11 New York City.

Leveraging Applications of Formal Methods, Verification, and Validation Anna-Lena Lamprecht 2016-12-20 This book constitutes the refereed proceedings of the 6th International Symposium

on Leveraging Applications of Formal Methods, Verification, and Validation, ISoLA 2014, held in Corfu, Greece, in October 2014, and the 5th International Symposium, ISoLA 2012, held in Heraklion, Crete, Greece, in October 2012. The 9 revised full papers presented were carefully reviewed and selected from 22 submissions. This volume combines the post-conference proceedings of the 2014 Doctoral Symposium and the 2014 Tutorial "Automata Learning in Practice" with the post-conference publication of selected contributions from the Tracks "Process-Oriented Geoinformation Systems and Applications" and "Processes and Data Integration in the Networked Healthcare" of ISoLA 2012.

Multimedia Communications, Services and Security Andrzej Dziech 2014-05-20 This volume constitutes the refereed proceedings of the 7th International Conference on Multimedia Communications, Services and Security, MCSS 2014, held in Krakow, Poland, in June 2014. The

21 full papers included in the volume were selected from numerous submissions. The papers cover ongoing research activities in the following topics: audiovisual systems, novel multimedia architectures, multimedia data fusion, acquisition of multimedia content, quality of experience management, watermarking technology and applications, content searching methods, interactive multimedia applications, cybercrime countermeasures, cryptography, biometry, as well as privacy protection solutions.

Brainlesion: Glioma, Multiple Sclerosis, Stroke and Traumatic Brain Injuries

Alessandro Crimi 2022-07-14 This two-volume set LNCS 12962 and 12963 constitutes the thoroughly refereed proceedings of the 7th International MICCAI Brainlesion Workshop, BrainLes 2021, as well as the RSNA-ASNR-MICCAI Brain Tumor Segmentation (BraTS) Challenge, the Federated Tumor Segmentation (FeTS) Challenge, the Cross-Modality Domain Adaptation (CrossMoDA) Challenge, and the challenge on

Quantification of Uncertainties in Biomedical Image Quantification (QUBIQ). These were held jointly at the 23rd Medical Image Computing for Computer Assisted Intervention Conference, MICCAI 2020, in September 2021. The 91 revised papers presented in these volumes were selected from 151 submissions. Due to COVID-19 pandemic the conference was held virtually.

Security Standardisation Research Liqun Chen 2014-12-10 This book constitutes the proceedings of the First International Conference on Security Standardisation Research, SSR 2014, which was held in London, UK, in December 2014. The 14 full papers presented in this volume were carefully reviewed and selected from 22 submissions. The papers cover a range of topics in the field of security standardisation research, including cryptographic evaluation, standards development, analysis with formal methods, potential future areas of standardisation, and improving existing standards.

Discovering Wavelets Edward Aboufadel

1999-10-05 An accessible and practical introduction to wavelets With applications in image processing, audio restoration, seismology, and elsewhere, wavelets have been the subject of growing excitement and interest over the past several years. Unfortunately, most books on wavelets are accessible primarily to research mathematicians. *Discovering Wavelets* presents basic and advanced concepts of wavelets in a way that is accessible to anyone with only a fundamental knowledge of linear algebra. The basic concepts of wavelet theory are introduced in the context of an explanation of how the FBI uses wavelets to compress fingerprint images. Wavelet theory is further developed in the setting of function spaces. The book then moves on to present more advanced topics such as filters, multiresolution analysis, Daubechies' wavelets, and further applications. The book concludes with a series of projects and problems that introduce advanced topics and offer starting points for research. Sample projects that

demonstrate real wavelet applications include image compression, a wavelet-based search engine, processing with Daubechies' wavelets, and more. Among the special features of *Discovering Wavelets* are: * Real-life, hands-on examples that involve actual wavelet applications * A companion Web site containing Pixel Images software and Maple files to be used with the projects in the book * Challenging problems that reinforce and expand on the ideas being developed * An appendix containing the linear algebra needed to understand wavelets as presented in the book

Curves and Surfaces Jean-Daniel Boissonnat
2015-08-13 This volume constitutes the thoroughly refereed post-conference proceedings of the 8th International Conference on Curves and Surfaces, held in Paris, France, in June 2014. The conference had the overall theme: "Representation and Approximation of Curves and Surfaces and Applications". The 32 revised full papers presented were carefully reviewed

and selected from 39 submissions. The scope of the conference was on following topics: approximation theory, computer-aided geometric design, computer graphics and visualization, computational geometry and topology, geometry processing, image and signal processing, interpolation and smoothing, mesh generation, finite elements and splines, scattered data processing and learning theory, sparse and high-dimensional approximation, subdivision, wavelets and multi-resolution method.

Psychological and Pedagogical Considerations in Digital Textbook Use and Development Railean, Elena 2015-04-30 "This book offers balanced coverage of the technological solutions that contribute to the design of digital textbooks and contribute to achieving learning objectives, offering an emphasis on assessment mechanisms and learning theory"--

[Proceedings of The 5th MAC 2015](#) group of authors 2015-10-14 The 5th Multidisciplinary Academic Conference in Prague 2015, Czech

Republic (The 5th MAC 2015)
ICCCE 2020 Amit Kumar 2020-10-11 This book is a collection of research papers and articles presented at the 3rd International Conference on Communications and Cyber-Physical Engineering (ICCCE 2020), held on 1-2 February 2020 at CMR Engineering College, Hyderabad, Telangana, India. Discussing the latest developments in voice and data communication engineering, cyber-physical systems, network science, communication software, image and multimedia processing research and applications, as well as communication technologies and other related technologies, it includes contributions from both academia and industry. This book is a valuable resource for scientists, research scholars and PG students working to formulate their research ideas and find the future directions in these areas. Further, it may serve as a reference work to understand the latest engineering and technologies used by practicing engineers in the field of communication engineering.

Information Technology Yi Wan 2015-09-07 These proceedings of the symposium ISIT 2014 aim to be a platform for international exchange of the state-of-the-art research and practice in information technology. The contributions cover a wide variety of topics, ranging from theoretical and analytical studies to various applications.

Emerging Technologies for Education Tien-Chi Huang 2017-12-15 This book constitutes the thoroughly refereed post-workshop proceedings of the Second International Symposium, SETE 2017, held in conjunction with ICWL 2017, Cape Town, South Africa, in September 2017. The 52 full and 13 short papers were carefully reviewed and selected from 123 submissions. This symposium attempts to provide opportunities for the crossfertilization of knowledge and ideas from researchers in diverse fields that make up this interdisciplinary research area.

Breast Imaging Hiroshi Fujita 2014-06-23 This book constitutes the refereed proceedings of the 12th International Workshop on Breast Imaging,

IWDM 2014, held in Gifu City, Japan, in June/July 2014. The 24 revised full papers and 73 revised poster papers presented together with 6 invited talks were carefully reviewed and selected from 122 submissions. The papers are organized in topical sections on screening outcomes, ultrasound, breast density, imaging physics, CAD, tomosynthesis and ICT and image processing.

Understanding Machine Learning Shai Shalev-Shwartz 2014-05-19 Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

Digital-Forensics and Watermarking Yun-Qing Shi 2015-06-24 This book constitutes the thoroughly refereed post-conference proceedings of the 13th International Workshop on Digital-Forensics and Watermarking, IWDW 2014, held in Taipei, Taiwan, during October 2014. The 32 full and 14 poster papers, presented together with 1 keynote speech, were carefully reviewed and

selected from 79 submissions. The papers are organized in topical sections on forensics; watermarking; reversible data hiding; visual cryptography; and steganography and steganalysis.

Image Analysis and Recognition Aurélio Campilho 2014-10-09 The two volumes LNCS 8814 and 8815 constitute the thoroughly refereed proceedings of the 11th International Conference on Image Analysis and Recognition, ICIAR 2014, held in Vilamoura, Portugal, in October 2014. The 107 revised full papers presented were carefully reviewed and selected from 177 submissions. The papers are organized in the following topical sections: image representation and models; sparse representation; image restoration and enhancement; feature detection and image segmentation; classification and learning methods; document image analysis; image and video retrieval; remote sensing; applications; action, gestures and audio-visual recognition; biometrics; medical image processing and

analysis; medical image segmentation; computer-aided diagnosis; retinal image analysis; 3D imaging; motion analysis and tracking; and robot vision.

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.

Research Anthology on Improving Medical Imaging Techniques for Analysis and Intervention Management Association, Information Resources 2022-09-09 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 Modeling of Objects Presented in Images. Fundamentals, Methods, and Applications Reneta P. Barneva
2019-05-28 This book constitutes the refereed post-conference proceedings of the 6th International Symposium on Computational Modeling of Objects Presented in Images, CompIMAGE 2018, held in Cracow, Poland, in July 2018. The 16 revised full papers presented in this book were carefully reviewed and selected from 30 submissions. The papers cover the following

topics: digital geometry; digital tomography; and methods and applications.

Pre-Service and In-Service Teacher Education: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources
2018-11-02 As with any industry, the education sector goes through frequent changes due to modern technological advancements. It is every educator's duty to keep up with these shifting requirements and alter their teaching style to best fit the needs of their classroom. *Pre-Service and In-Service Teacher Education: Concepts, Methodologies, Tools, and Applications* explores the current state of pre-service teacher programs as well as continuing education initiatives for in-service educators. It also emphasizes the growing role of technology in teacher skill development and training as well as key pedagogical developments and methods. Highlighting a range of topics such as teacher preparation programs, teaching standards, and fieldwork and practicum experiences, this multi-

volume book is designed for pre-service teachers, teacher educators, researchers,

professionals, and academics in the education field.