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Intelligent Technologies for Interactive Entertainment Matei Mancas 2013-11-30 This book constitutes the proceedings of the 5th International Conference on Intelligent Technologies for Interactive Entertainment, INTEIN 2013. The 23 full papers presented were carefully selected from numerous submissions. The conference aims at enhancing the understanding of recent and anticipated advances in interactive technologies, and their applications to entertainment, education, culture, and the arts. The papers are grouped in topical sections on linked media, gaming technologies, and technologies for live entertainment.

Multi-Scale Modeling and Characterization of Infrastructure Materials Niki Kringso 2013-05-26 The micro- and nano-modification of infrastructure materials and the associated multi-scale characterization and simulation has the potential to open up whole new uses and classes of materials, with wide-ranging implications for society. The use of multi-scale characterization and simulation brings the ability to target changes at the very small scale that predictably effect the bulk behavior of the material and thus allowing for the optimization of material behavior and performance. The International RILEM Symposium on Multi-Scale Modeling and Characterization of Infrastructure Materials (Stockholm, June 10-12, 2013) brought together key researchers from around the world to present their findings and ongoing research in this field in a focused environment with extended discussion times. From asphalt to concrete, from chemistry to mechanics, from nano- to macro-scale: the collection of topics covered by the Symposium represents the width and depth of the currently ongoing efforts of developing more sustainable infrastructure materials. Researchers, practitioners, undergraduates and graduate students engaged in infrastructure materials or multi-scale characterization and modeling efforts can use this book as a comprehensive reference, to learn about the currently ongoing research efforts in this field or as an inspiration for new research ideas to enhance the long-term performance of infrastructure materials from a fundamental perspective. The Symposium was held under the auspices of the RILEM Technical Committee on Nanotechnology-Based Bituminous Materials 231-NBM and the Transport Research Board (TRB) Technical Committee on Characteristics of Asphalt Materials AFK20.

Digital Forensics and Watermarking Yun Qing Shi 2017-02-14 This book constitutes the revised post-conference proceedings of the 15th International Workshop on Digital Forensics and Watermarking, IWDP 2016, held in Beijing, China, in September 2016. The 45 papers presented in this volume were carefully reviewed and selected from 70 submissions. The contributions are organized in topical sections on digital forensics, visual cryptography, reversible data hiding, and steganography and steganalysis.

Sustainable Smart Cities and Smart Villages Research Miltiadis D. Lytras 2018-10-19 This book is a printed edition of the Special Issue "Sustainable Smart Cities and Smart Villages Research" that was published in Sustainability

Digital Forensics and Watermarking Xianfeng Zhao 2023-03-01 This book constitutes the refereed proceedings of the 21st International Workshop, IWDP 2022, held in Guilin, China, during November 18-19, 2022. The 14 full papers included in this book were carefully reviewed and selected from 30 submissions. They were organized in topical sections as follows: Steganology, Forensics and Security Analysis, Watermarking.

Business Information Systems Workshops Witold Abramowicz 2015-12-01 This book constitutes the refereed proceedings of the five workshops that were organized in conjunction with the International Conference on Business Information Systems, BIS 2015, which took place in Poznan, Poland, in June 2015. The 26 papers in this volume were carefully reviewed and selected from 56 submissions and were revised and extended after the event. The workshop topics covered knowledge-based business information systems (AKTB), business and IT alignment (BITA), transparency-enhancing technologies and privacy dashboards (PTDCS), semantics usage in enterprises (FSFE), and issues related to DPedia. In addition two keynote papers are included in this book.

Pattern Recognition and Image Analysis Joao Miguel Sanches 2013-05-23 This book constitutes the refereed proceedings of the 6th Iberian Conference on Pattern Recognition and Image Analysis, IbPRIA 2013, held in Funchal, Madeira, Portugal, in June 2013. The 105 papers (37 oral and 68 poster ones) presented were carefully reviewed and selected from 181 submissions. The papers are organized in topical sections on computer vision, pattern recognition, image and signal applications.

Intelligence Science and Big Data Engineering Changyin Sun 2013-11-18 This book constitutes the thoroughly refereed post-conference proceedings of the 4th International Conference on Intelligence Science and Big Data Engineering, ISIDE 2013, held in Beijing, China, in July/August 2013. The 111 papers presented were carefully peer-reviewed and selected from 390 submissions. Topics covered include information theoretic and Bayesian approaches; probabilistic graphical models; pattern recognition and computer vision; signal processing and image processing; machine learning and computational intelligence; neural networks and neuro-informatics; statistical inference and uncertainty reasoning; bioinformatics and computational biology and speech recognition and natural language processing.

3D Visual Content Creation, Coding and Delivery Pedro Amado Assunção 2018-07-28 This book covers the different aspects of modern 3D multimedia technologies by addressing several elements of 3D visual communications systems, using diverse content formats, such as stereo video, video-plus-depth and multiview, and coding schemes for delivery over networks. It also presents the latest advances and research results in regards to objective and subjective quality evaluation of 3D visual content, extending the human factors affecting the perception of quality to emotional states. The contributors describe technological developments in 3D visual communications, with particular emphasis on state-of-the-art advances in acquisition of 3D visual scenes and emerging 3D visual representation formats, such as: multi-view plus depth and light field; evolution to freeview and light-field representation; compression methods and robust delivery systems; and coding and delivery over various channels. Simulation tools, testbeds and datasets that are useful for advanced research and experimental studies in the field of 3D multimedia delivery services and applications are covered. The international group of contributors also explore the research problems and challenges in the field of immersive visual communications, in order to identify research directions with substantial economic and social impact. 3D Visual Content Creation, Coding and Delivery provides valuable information to engineers and computer scientists developing novel products and services with emerging 3D multimedia technologies, by discussing the advantages and current limitations that need to be addressed in order to develop their products further. It will also be of interest to students and researchers in the field of multimedia services and applications, who are particularly interested in advances bringing significant potential impact on future technological developments.

Recent Trends in Applied Artificial Intelligence Moones Ali 2013-05-20 This volume constitutes the thoroughly refereed conference proceedings of the 26th International Conference on Industrial Engineering and Other Applications of Applied Intelligence Systems, IEA/AIE 2013, held in Amsterdam, The Netherlands, in June 2013. The total of 71 papers selected for the proceedings were carefully reviewed and selected from 185 submissions. The papers focus on the following topics: auctions and negotiation, cognitive modeling, crowd behavior modeling, distributed systems and networks, evolutionary algorithms, knowledge representation and reasoning, pattern recognition, planning, problem solving, robotics, text mining, advances in recommender systems, business process intelligence, decision support for safety-related systems, innovations in intelligent computation and applications, intelligent image and signal processing, and machine learning methods applied to manufacturing processes and production systems.

Advances in Neural Networks - ISNN 2018 Tingwen Huang 2018-05-25 This book constitutes the refereed proceedings of the 15th International Symposium on Neural Networks, ISNN 2018, held in Minsk, Belarus in June 2018.The 98 revised regular papers presented in this volume were carefully reviewed and selected from 214 submissions. The papers cover many topics of neural network-related research including intelligent control, neurodynamic analysis, bio-signal, bioinformatics and biomedical engineering, clustering, classification, forecasting, models, algorithms, cognitive computation, machine learning, and optimization.

Artificial Intelligence and Soft Computing Leszek Rutkowski 2013-06-04 The two-volume set LNAI 7894 and LNCS 7895 constitutes the refereed proceedings of the 12th International Conference on Artificial Intelligence and Soft Computing, ICAISC 2013, held in Zakopane, Poland in June 2013. The 112 revised full papers presented together with one invited paper were carefully reviewed and selected from 274 submissions. The 56 papers included in the second volume are organized in the following topical sections: evolutionary algorithms and their applications; data mining; bioinformatics and medical applications; agent systems, robotics and control; artificial intelligence in modeling and simulation; and various problems of artificial intelligence.

Portable Spectroscopy and Spectrometry. Technologies and Instrumentation Richard A. Crocombe 2021-04-19 Provides complete and up-to-date coverage of the foundational principles, enabling technologies, and specific instruments of portable spectrometry Portable Spectroscopy and Spectrometry: Volume One is both a timely overview of the miniature technologies used in spectrometry, and an authoritative guide to the specific instruments employed in a wide range of disciplines. This much-needed resource is the first comprehensive work to describe the enabling technologies of portable spectrometry, explain how various handheld and portable instruments work, discuss their potential limitations, and provide clear guidance on optimizing their utility and accuracy in the field. In-depth chapters—written by a team of international authors from a wide range of disciplinary backgrounds—have been carefully reviewed both by the editors and by third-party experts to ensure their quality and completeness. Volume One begins with general discussion of portable spectrometer engineering before moving through the electromagnetic spectrum to cover x-ray fluorescence (XRF), UV-visible, near-infrared, mid-infrared, and Raman spectroscopies. Subsequent chapters examine microplasma, laser induced breakdown spectroscopy (LIBS), nuclear magnetic resonance (NMR) spectroscopy, and a variety of portable mass spectrometry instrument types. Featuring detailed chapters on DNA instrumentation and biological analyzers—topics of intense interest in light of the global coronavirus pandemic—this timely volume: Provides comprehensive coverage of the principles and instruments central to portable spectrometry Includes contributions by experienced professionals working in instrument companies, universities, research institutes, the military, and hazardous material teams Discusses special topics such as smartphone spectroscopy, optical filter technology, stand-off detection, and MEMS/MOEMS technology Covers elemental spectroscopy, optical molecular spectroscopy, mass spectrometry, and molecular and imaging technologies Portable Spectroscopy and Spectrometry: Volume One is an indispensable resource for developers of portable instruments, civilian and government purchasers and operators, and teachers and students of portable spectrometry. When combined with Volume Two, which focuses on the multitude of applications of portable instrumentation, Portable Spectroscopy and Spectrometry provides the most thorough coverage of the field currently available.

Intelligent Computing Theories and Technology De-Shuang Huang 2013-07-23 This book constitutes the refereed proceedings of the 9th International Conference on Intelligent Computing, ICIC 2013, held in Nanning, China, in July 2013. The 79 revised full papers presented were carefully reviewed and selected from 561 submissions. The papers are organized in topical sections on systems biology and computational biology; cognitive science and computational neuroscience; knowledge discovery and data mining; machine learning theory and methods; biomedical informatics theory and methods; complex systems theory and methods; natural language processing and computational linguistics; fuzzy theory and models; fuzzy systems and soft computing; particle swarm optimization and niche technology; swarm intelligence and optimization; unsupervised and reinforcement learning; intelligent computing in bioinformatics; intelligent computing in Petri nets/transportation systems; intelligent computing in social networking; intelligent computing in network software/hardware; intelligent control and automation; intelligent data fusion and information security; intelligent sensor networks; intelligent fault diagnosis; intelligent computing in signal processing; intelligent computing in pattern recognition; intelligent computing in biometrics recognition; intelligent computing in image processing; intelligent computing in computer vision; special session on biometrics system and security for intelligent computing; special session on bio-inspired computing and applications; special session on intelligent computing and personalized assisted living; computer human interaction using multiple visual cues and intelligent computing; and special session on protein and gene bioinformatics: analysis, algorithms and applications.

The Age of Em Robin Hanson 2016-05-13 Robots may one day rule the world, but what is a robot-ruled Earth like? Many think the first truly smart robots will be brain emulations or ems. Scan a human brain, then run a model with the same connections on a fast computer, and you have a robot brain, but recognizably human. Train an em to do some job and copy it a million times: an army of workers is at your disposal. When they can be made cheaply, within perhaps a century, ems will displace humans in most jobs. In this new economic era, the world economy may double in size every few weeks. Some say we can't know the future, especially following such a disruptive new technology, but Professor Robin Hanson sets out to prove them wrong. Applying decades of expertise in physics, computer science, and economics, he uses standard theories to paint a detailed picture of a world dominated by ems. While human lives don't change greatly in the em era, em lives are as different from ours as our lives are from those of our farmer and forager ancestors. Em's make us question common assumptions of moral progress, because they reject many of the values we hold dear. Read about em mind speeds, body sizes, job training and career paths, energy use and cooling infrastructure, virtual reality, aging and retirement, death and immortality, security, wealth inequality, religion, teleportation, identity, cities, politics, law, war, status, friendship and love. This book shows you just how strange your descendants may be, though ems are no stranger than we would appear to our ancestors. To most ems, it seems good to be an em.

Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2013 Edition 2013-06-20 Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Analysis and Measurement. The editors have built Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Analysis and Measurement in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Multimedia Communications, Services and Security Andrzej Dziach 2013-05-16 This volume constitutes the refereed proceedings of the 6th International Conference on Multimedia Communications, Services and Security, MCSS 2013, held in Krakow, Poland, in June 2013. The 27 full papers included in the volume were selected from numerous submissions. The papers cover various topics related to multimedia technology and its application to public safety problems.

Turn Down the Heat A Report for the World Bank by the Potsdam Institute for Climate Impact Research and Analytics. 2013-06-19 This report focuses on the risks of climate change to development in Sub-Saharan Africa, South East Asia and South Asia. Building on the 2012 report, Turn Down the Heat: Why a 4°C Warmer World Must Be Avoided, this new scientific analysis examines the likely impacts of present day, 2°C and 4°C warming on agricultural production, water resources, and coastal vulnerability. It finds many significant climate and development impacts are already being felt in some regions, and that as warming increases from present day (0.8°C) to 2°C and 4°C, multiple threats of increasing extreme heat waves, sea-level rise, more severe storms, droughts and floods are expected to have further severe negative implications for the poorest and most vulnerable. The report finds that agricultural yields will be affected across the three regions, with repercussions for food security, economic growth, and poverty reduction. In addition, urban areas have been identified as new clusters of vulnerability with urban dwellers, particularly in the urban poor, facing significant vulnerability to climate change. In Sub-Saharan Africa, under 3°C global warming, savannas are projected to decrease from their current levels to approximately one-seventh of total land area and threaten pastoral livelihoods. Under 4°C warming, total hyper-arid and arid areas are projected to expand by 10 percent. In South East Asia, under 2°C warming, heat extremes that are virtually absent today would cover nearly 60-70 percent of total land area in northern-hemisphere summer, adversely impacting ecosystems. Under 4°C warming, rural populations would face mounting pressures from sea-level rise, increased tropical cyclone intensity, storm surges, saltwater intrusions, and loss of marine ecosystem services. In South Asia, the potential sudden onset of disturbances to the monsoon system and rising peak temperatures would put water and food resources at severe risk. Well before 2°C warming occurs, substantial reductions in the frequency of low snow years is projected to cause substantial reductions in dry season flow, threatening agriculture. Many of the worst climate impacts could still be avoided by holding warming below 2°C, but the window for action is closing rapidly. Urgent action is also needed to build resilience to a rapidly warming world that will pose significant risks to agriculture, water resources, coastal infrastructure, and human health.

Human-Computer Interaction: Users and Contexts of Use Masaaki Kuroso 2013-07-03 The five-volume set LNCS 8004–8008 constitutes the refereed proceedings of the 15th International Conference on Human-Computer Interaction, HCI 2013, held in Las Vegas, NV, USA in July 2013. The total of 1666 papers and 303 posters presented at the HCI 2013 conferences was carefully reviewed and selected from 5210 submissions. These papers address the

latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. This volume contains papers in the thematic area of human-computer interaction, addressing the following major topics: identity, privacy and trust; user studies; interaction for society and community; HCI for business and innovation.

Information Processing in Computer-Assisted Interventions Dean Barratt 2013-06-19 This book constitutes the proceedings of the 4th International Conference on Information Processing in Computer-Assisted Interventions IPCAI 2013, held in Heidelberg, Germany, on June 26, 2013. The 11 papers presented were carefully reviewed and selected from 20 submissions. The papers are organized in topical sections on simulation, neurosurgical interventions, ultrasound guided interventions, and image guided interventions.

Cross-Modal Learning: Adaptivity, Prediction and Interaction Jianwei Zhang 2023-02-02 The purpose of this Research Topic is to reflect and discuss links between neuroscience, psychology, computer science and robotics with regards to the topic of cross-modal learning which has, in recent years, emerged as a new area of interdisciplinary research. The term cross-modal learning refers to the synergistic synthesis of information from multiple sensory modalities such that the learning that occurs within any individual sensory modality can be enhanced with information from one or more other modalities. Cross-modal learning is a crucial component of adaptive behavior in a continuously changing world, and examples are ubiquitous, such as: learning to grasp and manipulate objects; learning to walk; learning to read and write; learning to understand language and its referents; etc. In all these examples, visual, auditory, somatosensory or other modalities have to be integrated, and learning must be cross-modal. In fact, the broad range of acquired human skills are cross-modal, and many of the most advanced human capabilities, such as those involved in social cognition, require learning from the richest combinations of cross-modal information. In contrast, even the very best systems in Artificial Intelligence (AI) and robotics have taken only tiny steps in this direction. Building a system that composes a global perspective from multiple distinct sources, types of data, and sensory modalities is a grand challenge of AI, yet it is specific enough that it can be studied quite rigorously and in such detail that the prospect for deep insights into these mechanisms is quite plausible in the near term. Cross-modal learning is a broad, interdisciplinary topic that has not yet coalesced into a single, unified field. Instead, there are many separate fields, each tackling the concerns of cross-modal learning from its own perspective, with currently little overlap. We anticipate an accelerating trend towards integration of these areas and we intend to contribute to that integration. By focusing on cross-modal learning, the proposed Research Topic can bring together recent progress in artificial intelligence, robotics, psychology and neuroscience.

XVIII International Coal Preparation Congress Vladimir Litvinenko 2016-10-21 This book gathers technical and scientific articles by leading experts from 15 countries and originally presented at the world’s most prestigious forum on coal preparation: the XVIII International Coal Preparation Congress. Topics addressed include: the mineral resources basis of the coal industry; problems and prospects of development in the coal industry; crushing, grinding, screening and classification processes used at sorting plants; coal processing and briquette factories; review of plant designs and operations used around the world; new developments in dense-medium separators, water-based separation processes, froth flotation and dewatering; technologies and equipment for the dry separation of coal; coal deep processing technologies and equipment; energy generation as an area of coal deep processing; and simulation and optimization software for separation processes. In general, the future of coal around the world is defined by its competitiveness. As the cheapest form of fuel (comparatively speaking), coal undoubtedly continues to be in high demand around the world.

Pattern Recognition Jesús Ariel Carrasco-Ochoa 2013-06-05 This book constitutes the refereed proceedings of the 5th Mexican Conference on Pattern Recognition, MCRP 2013, held in Huatulco, Mexico, in June 2013. The 36 revised full papers and two keynotes presented were carefully reviewed and selected from 81 submissions and are organized in topical sections on computer vision; image processing; pattern recognition and artificial intelligence; neural networks; document processing.

Strategic Information Management Robert D. Galliers 2020-04-27 Today, there are few in senior management positions who can afford to ignore modern information technology, and few individuals who would prefer to be without it. Modern IT is key to organizational performance; yet we often assume the benefits will occur without forethought or effort. As managerial tasks become more complex, so the nature of the required information systems changes – from structured, routine support to ad hoc, unstructured, complex enquiries at the highest levels of management. If taken for granted, serious implications can arise for organizations. This fifth edition of Strategic Information Management has been brought fully up to date with recent developments in the management of information systems, including digital transformation strategy, the issues surrounding big data and algorithmic decision-making. The book provides a rich source of material reflecting recent thinking on the key issues facing executives, drawing from a wide range of contemporary articles written by leading experts in North America, Europe, and Australia. Combining theory with practice, each section is fully introduced, includes further reading and questions for further discussion. Designed for MBA, master’s level students, and advanced undergraduate students taking courses in information systems management, it also provides a wealth of information and references for researchers.

Environmental Hydrology Andy D. Ward 2015-09-17 The late Professor Reds Wolman in his Foreword to the award-winning second edition said, "This is not your ordinary textbook. Environmental Hydrology is indeed a textbook, but five elements often found separately combine here in one text to make it different. It is eclectic, practical, in places a handbook, a guide to fieldwork, engagingly personal

Brain-Inspired Computing Lucio Grandinetti 2014-10-16 This book constitutes the thoroughly refereed conference proceedings of the International Workshop on Brain-inspired Computing, BrainComp 2013, held in Cetraro, Italy, in July 2013. The 16 revised full papers were carefully reviewed and selected from numerous submissions and cover topics such as brain structure and function as a neuroscience perspective, computational models and brain-inspired computing, HPC and visualization for human brain simulations.

Wildland Fire Smoke in the United States David L. Peterson 2022-08-11 This open access book synthesizes current information on wildland fire smoke in the United States, providing a scientific foundation for addressing the production of smoke from wildland fires. This will be increasingly critical as smoke exposure and degraded air quality are expected to increase in extent and severity in a warmer climate. Accurate smoke information is a foundation for helping individuals and communities to effectively mitigate potential smoke impacts from wildfires and prescribed fires. The book documents our current understanding of smoke science for (1) primary physical, chemical, and biological issues related to wildfire and prescribed fire, (2) key social issues, including human health and economic impacts, and (3) current and anticipated management and regulatory issues. Each chapter provides a summary of priorities for future research that provide a roadmap for developing scientific information that can improve smoke and fire management over the next decade.

Applications of Computing and Communication Technologies Ganesh Chandra Deka 2018-08-29 This book (CCIS 899) constitutes the refereed proceedings of the First International Conference on Applications of Computing and Communication Technologies, ICACCT 2018, held in Delhi, India, in March 2018. The 30 full papers were carefully reviewed and selected from 109 submissions. The papers are organized in topical sections on communication and system technologies, computing and network technologies, application and services.

Cloud Computing and Security Xingming Sun 2016-11-03 This two volume set LNCS 10039 and LNCS 10040 constitutes the thoroughly refereed post-conference proceedings of the Second International Conference on Cloud Computing and Security, ICCCS 2016, held in Nanjing, China, during July 29-31, 2016. The 97 papers of these volumes were carefully reviewed and selected from 272 submissions. The papers are organized in topical sections such as: Information Hiding, Cloud Computing, Cloud Security, IOT Applications, Multimedia Applications, Multimedia Security and Forensics.

The R Book Michael J. Crawley 2007-06-13 The high-level language of R is recognized as one of the most powerful and flexible statistical software environments, and is rapidly becoming the standard setting for quantitative analysis, statistics and graphics. R provides free access to unrivaled coverage and cutting-edge applications, enabling the user to apply numerous statistical methods ranging from simple regression to timeseries or multivariate analysis. Building on the success of the author’s bestselling Statistics: An Introduction using R, The R Book is packed with worked examples, providing an all inclusive guide to R, ideal for novice and more accomplished users alike. The book assumes no background in statistics or computing and introduces the advantages of the R environment, detailing its applications in wide range of disciplines. Provides the first comprehensive reference manual for the R language, including practical guidance and full coverage of the graphics facilities. Introduces all the statistical models covered by R, beginning with simple classical tests such as chi-square and t-test. Proceeds to examine more advance methods, from regression and analysis of variance, through to generalized linear models, generalized mixed models, time series, spatial statistics, multivariate statistics and much more. The R Book is aimed at undergraduates, postgraduates and professionals in science, engineering and medicine. It is also ideal for students and professionals in statistics, economics, geography and the social sciences.

The Rules of Contagion Adam Kucharski 2020-07-07 One of the Best Books of 2020 — Financial Times One of the "Most 2020 Books of 2020" — Washington Post One of the Best Science Books of 2020 — The Times of London One of the Best Science Books of 2020 — The Guardian From ideas and infections to financial crises and fake news, an “utterly timely” look at why the science of outbreaks is the science of modern life These days, whenever anything spreads, whether it’s a YouTube fad or a political rumor, we say it went viral. But how does virality actually work? In The Rules of Contagion, epidemiologist Adam Kucharski explores topics including gun violence, online manipulation, and, of course, outbreaks of disease to show how much we get wrong about contagion, and how astonishing the real science is. Why did the president retweet a Mussolini quote as his own? Why do financial bubbles take off so quickly? Why are disinformation campaigns so effective? And what makes the emergence of new illnesses – such as MERS, SARS, or the coronavirus disease COVID-19 – so challenging? By uncovering the crucial factors driving outbreaks, we can see how things really spread – and what we can do about it. Whether you are an author seeking an audience, a defender of truth, or simply someone interested in human social behavior, The Rules of Contagion is an essential guide to modern life.

Application of Imaging Techniques to Mechanics of Materials and Structures, Volume 4 Tom Proulx 2012-08-15 This the fourth volume of six from the Annual Conference of the Society for Experimental Mechanics, 2010, brings together 58 chapters on Application of Imaging Techniques to Mechanics of Materials and Structure. It presents findings from experimental and computational investigations involving a range of imaging techniques including Recovery of 3D Stress Intensity Factors From Surface Full-field Measurements, Identification of Cohesive-zone Laws From Crack-tip Deformation Fields, Application of High Speed Digital Image Correlation for Vibration Mode Shape Analysis, Characterization of Aluminum Alloys Using a 3D Full Field Measurement, and Low Strain Rate Measurements on Explosives Using DIC.

Intelligent Computing Theories De-Shuang Huang 2013-07-20 This book constitutes the refereed conference proceedings of the 9th International Conference on Intelligent Computing, ICIC 2013, held in Nanning, China, in July 2013. The 74 revised full papers presented were carefully reviewed and selected from numerous submissions and are organized in topical sections on neural networks, nature inspired computing and optimization, cognitive science and computational neuroscience, knowledge discovery and data mining, evolutionary learning and genetic algorithms machine learning theory and methods, natural language processing and computational linguistics, fuzzy theory and models, soft computing, unsupervised and reinforced learning, intelligent computing in finance, intelligent computing in petri nets, intelligent data fusion and information security, virtual reality and computer interaction, intelligent computing in pattern recognition, intelligent computing in image processing, intelligent computing in robotics, complex systems theory and methods.

Advances in Computational Intelligence Ignacio Rojas 2013-06-20 This two-volume set LNCS 7902 and 7903 constitutes the refereed proceedings of the 12th International Work-Conference on Artificial Neural Networks, IWANN 2013, held in Puerto de la Cruz, Tenerife, Spain, in June 2013. The 116 revised papers were carefully reviewed and selected from numerous submissions for presentation in two volumes. The papers explore sections on mathematical and theoretical methods in computational intelligence, neurocomputational formulations, learning and adaptation emulation of cognitive functions, bio-inspired systems and neuro-engineering, advanced topics in computational intelligence and applications.

Advances in Swarm Intelligence Ying Tan 2013-05-13 This book and its companion volume, LNCS vols. 7928 and 7929 constitute the proceedings of the 4th International Conference on Swarm Intelligence, ICSCI 2013, held in Harbin, China in June 2013. The 129 revised full papers presented were carefully reviewed and selected from 268 submissions. The papers are organized in 22 cohesive sections covering all major topics of swarm intelligence research and developments. The topics covered in this volume are: hybrid algorithms, swarm-robot and multi-agent systems, support vector machines, data mining methods, system and information security, intelligent control, wireless sensor network, scheduling and path planning, image and video processing, and other applications.

Computer Vision Systems Mei Chen 2013-07-11 This book constitutes the refereed proceedings of the 9th International Conference on Computer Vision Systems, ICVS 2013, held in St. Petersburg, Russia, July 16-18, 2013. Proceedings. The 16 revised papers presented with 20 poster papers were carefully reviewed and selected from 94 submissions. The papers are organized in topical sections on image and video capture; visual attention and object detection; self-localization and pose estimation; motion and tracking; 3D reconstruction; features, learning and validation.

Versatile Video Coding Humberto Ochoa Dominguez 2022-09-01 Video is the main driver of bandwidth use, accounting for over 80 per cent of consumer Internet traffic. Video compression is a critical component of many of the available multimedia applications, it is necessary for storage or transmission of digital video over today’s band-limited networks. The majority of this video is coded using international standards developed in collaboration with ITU-T Study Group and MPEG. The MPEG family of video coding standards begun on the early 1990s with MPEG-1, developed for video and audio storage on CD-ROMs, with support for progressive video. MPEG-2 was standardized in 1995 for applications of video on DVD, standard and high definition television, with support for interlaced and progressive video. MPEG-4 part 2, also known as MPEG-2 video, was standardized in 1999 for applications of low-bit rate multimedia on mobile platforms and the Internet, with the support of object-based or content based coding by modeling the scene as background and foreground. Since MPEG-1, the main video coding standards were based on the so-called macroblocks. However, research groups continued the work beyond the traditional video coding architectures and found that macroblocks could limit the performance of the compression when using high-resolution video. Therefore, in 2013 the high efficiency video coding (HEVC) also known and H.265, was released, with a structure similar to H.264/AVC but using coding units with more flexible partitions than the traditional macroblocks. HEVC has greater flexibility in prediction modes and transform block sizes, also it has a more sophisticated interpolation and de blocking filters. In 2006 the VC-1 was released. VC-1 is a video codec implemented by Microsoft and the Microsoft Windows Media Video (WMV) 9 and standardized by the Society of Motion Picture and Television Engineers (SMPTe). In 2017 the Joint Video Experts Team (JVET) released a call for proposals for a new video coding standard initially called Beyond the HEVC, Future Video Coding (FVC) or known as Versatile Video Coding (VVC). VVC is being built on top of HEVC for application on Standard Dynamic Range (SDR), High Dynamic Range (HDR) and 360° Video. The VVC is planned to be finalized by 2020. This book presents the new VVC, and updates on the HEVC. The book discusses the advances in lossless coding and covers the topic of screen content coding. Technical topics discussed include: Beyond the High Efficiency Video Coding/High Efficiency Video Coding encoder/Screen content/Lossless and visually lossless coding algorithms/Fast coding algorithms/Visual quality assessment/Other screen content coding algorithms/Overview of JPEG Series

Digital Human Modeling: Applications in Health, Safety, Ergonomics and Risk Management Vincent G. Duffy 2016-07-04 This book constitutes the refereed proceedings of the 7th International Conference on Digital Human Modelling: Applications in Health, Safety, Ergonomics and Risk Management, DHM 2016, held as part of the 18th International Conference on Human-Computer Interaction, HCI 2016, held in Toronto, ON, Canada, in July 2016 and received a total of 4354 submissions, of which 1287 papers were accepted for publication after a careful reviewing process. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. This volume contains papers addressing the following major topics: anthropometry, ergonomics, design and comfort; physiology and anatomy models; motion prediction and recognition; quality and safety in healthcare; design for health; work design and support; modeling human behavior and cognition.

Image Analysis Joni-Kristian Kamarainen 2013-05-27 This book constitutes the refereed proceedings of the 18th Scandinavian Conference on Image Analysis, SCIA 2013, held in Espoo, Finland, in June 2013. The 67 revised full papers presented were carefully reviewed and selected from 132 submissions.

The papers are organized in topical sections on feature extraction and segmentation, pattern recognition and machine learning, medical and biomedical image analysis, faces and gestures, object and scene recognition, matching, registration, and alignment, 3D vision, color and multispectral image analysis, motion analysis, systems and applications, human-centered computing, and video and multimedia analysis.

Artificial Intelligence Lu Fang 2022-01-01 This two-volume set LNCS 13069-13070 constitutes selected papers presented at the First CAAI International

Conference on Artificial Intelligence, held in Hangzhou, China, in June 2021. Due to the COVID-19 pandemic the conference was partially held online. The 105 papers were thoroughly reviewed and selected from 307 qualified submissions. The papers are organized in topical sections on applications of AI; computer vision; data mining; explainability, understandability, and verifiability of AI; machine learning; natural language processing; robotics; and other AI related topics.