

Pixl June 2014 Predicted Paper 1

This book constitutes the proceedings of the 5th Latin American Conference, CARLA 2018, held in Bucaramanga, Colombia, in September 2018. The 24 papers presented in this volume were carefully reviewed and selected from 38 submissions. They are organized in topical sections on: Artificial Intelligence; Accelerators; Applications; Performance Evaluation, Platforms and Infrastructures; Cloud Computing.

This book constitutes the thoroughly refereed post-conference proceedings of the 8th Pacific Rim Symposium on Image and Video Technology, PSNVT 2017, held in Wuhan, China, in November 2017. The total of 38 revised papers was carefully reviewed and selected from 91 submissions. The Pacific-Rim Symposium on Image and Video Technology (PSNVT) is a high-quality series of symposia that aim at providing a forum for researchers and practitioners who are being involved, or are contributing to theoretical advances or practical implementations in image and video technology.

This book constitutes the proceedings of the 22nd International Conference on Nonlinear Dynamics of Electronic Systems, NDES 2014, held in Albena, Bulgaria, in July 2014. The 47 revised full papers presented were carefully reviewed and selected from 65 submissions. The papers are organized in topical sections on nonlinear oscillators, circuits and electronic systems; networks and nonlinear dynamics and nonlinear phenomena in biological and physiological systems.

The three-volume set LNCS 11857, 11858, and 11859 constitutes the refereed proceedings of the Second Chinese Conference on Pattern Recognition and Computer Vision, PRCV 2019, held in Xi'an, China, in November 2019. The 165 revised full papers presented were carefully reviewed and selected from 412 submissions. The papers have been organized in the following topical sections: Part I: Object Detection, Tracking and Recognition, Part II: Image/Video Processing and Analysis, Part III: Data Analysis and Optimization.

Foundations of Augmented Cognition, Advancing Human Performance and Decision-Making through Adaptive Systems
Chinese Conference, IGTA 2014, Beijing, China, June 19-20, 2014. Proceedings

12th Asian Conference on Computer Vision, Singapore, Singapore, November 1-5, 2014, Revised Selected Papers, Part IV

Proceeding of the Fourteenth International Conference on Intelligent Information Hiding and Multimedia Signal Processing, November, 26-28, 2018, Sendai, Japan, Volume 1

5th International Workshop, IWCF 2012, Tsukuba, Japan, November 11, 2012 and 6th International Workshop, IWCF 2014, Stockholm, Sweden, August 24, 2014, Revised Selected Papers
Power and Energy

12th International Conference, VAMR 2020, Held as Part of the 22nd HCI International Conference, HCII 2020, Copenhagen, Denmark, July 19 – 24, 2020, Proceedings, Part I

Singapore, Singapore, November 1-2, 2014, Revised Selected Papers, Part I

This book constitutes the revised post-conference proceedings of the 15th International Workshop on Digital Forensics and Watermarking, IWDW 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.

The 22 full papers and 12 shorts papers presented in this volume were carefully reviewed and selected from 70 submissions. The contributions are covering the following topics: deep learning for multimedia security; digital forensics and anti-forensics; digital watermarking; information hiding; steganography and steganalysis; authentication and security.

This two-volume set LNCS 11383 and 11384 constitutes revised selected papers from the 4th International MICCAI BrainLesion Workshop, BrainLes 2018, as well as the International Multimodal Brain Tumor Segmentation, BraTS, Ischemic Stroke Lesion Segmentation, ISLES, MR Brain Image Segmentation, MRBrainS18, Computational Precision Medicine, CPM, and Stroke Workshop on Imaging and Treatment Challenges, SWITCH, which were held jointly at the Medical Image Computing for Computer Assisted Intervention Conference, MICCAI, in Granada, Spain, in September 2018. The 92 papers presented in this volume were carefully reviewed and selected from 95 submissions. They were organized in topical sections named: brain lesion image analysis; brain tumor image segmentation; ischemic stroke lesion image segmentation; grand challenge on MR brain segmentation; computational precision medicine; stroke workshop on imaging and treatment challenges.

This book (ICIS 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.

Interpretable Machine Learning

Computer Vision – ACCV 2014 Workshops

First International Conference, ICACCT 2018, Delhi, India, March 9, 2018, Revised Selected Papers

Deep Learning for Toxicity and Disease Prediction

Third International Conference, DUXU 2014, Held as Part of HCI International 2014, Heraklion, Crete, Greece, June 22-27, 2014, Proceedings, Part II

Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications

Digital Forensics and Watermarking

Proceedings of ESREL 2018, June 17-21, 2018, Trondheim, Norway

This book constitutes the refereed proceedings of the 6th International Conference, ICISP 2014, held in June/July 2014 in Cherbourg, France. The 76 revised full papers were carefully reviewed and selected from 164 submissions. The contributions are organized in topical sections on multispectral colour science, color imaging and applications, digital cultural heritage, document image analysis, graph-based representations, image filtering and representation, computer vision and pattern recognition, computer graphics, biomedical, and signal processing.

This book constitutes the proceedings of the Workshops held at the International Conference on Social Informatics, Socinfo 2014, which took place in Barcelona, Spain, in November 2014. This year Socinfo 2014 included nine satellite workshops: the City Labs Workshop, the Workshop on Criminal Network Analysis and Mining, CRIMENET, the Workshop on Interaction and Exchange in Social Media, DYAD, the Workshop on Exploration of Games and Gamers, EGG, the

Workshop on Histoinformatics, the Workshop on Socio-Economic Dynamics, Networks and Agent-based Models, SEDNAM, the Workshop on Social Influence, SI, the Workshop on Social Scientists Working with Start-Ups and the Workshop on Social Media in Crowdsourcing and Human Computation, SoHuman

The 2-volume set of LNCS 12190 and 12191 constitutes the refereed proceedings of the 12th International Conference on Virtual, Augmented and Mixed Reality, VAMR 2020, which was due to be held in July 2020 as part of HCI International 2020 in Copenhagen, Denmark. The conference was held virtually due to the COVID-19 pandemic. A total of 1439 papers and 238 posters have been accepted for publication in the HCII 2020 proceedings from a total of 6326

submissions. The 71 papers included in these HCI 2020 proceedings were organized in topical sections as follows: Part I: design and user experience in VAMR; gestures and haptic interaction in VAMR; cognitive, psychological and health aspects in VAMR; robots in VAMR. Part II: VAMR for training, guidance and assistance in industry and business; learning, narrative, storytelling and cultural applications of VAMR; VAMR for health, well-being and medicine.

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.

Control Engineering and Information Systems

Image and Signal Processing

22nd International Conference, NDES 2014, Albena, Bulgaria, July 4-6, 2014. Proceedings

Theory and Practice

Proceedings of the 19th International Workshop of Physical Agents (WAF 2018), November 22-23, 2018, Madrid, Spain

8th International Conference, AC 2014, Held as Part of HCI International 2014, Heraklion, Crete, Greece, June 22-27, 2014, Proceedings

16th International Conference, HCI International 2014, Heraklion, Crete, Greece, June 22-27, 2014, Proceedings, Part II

20th International Workshop, IWDW 2021, Beijing, China, November 20-22, 2021, Revised Selected Papers

The 3-volume set LNCS 8510, 8511 and 8512 constitutes the refereed proceedings of the 16th International Conference on Human-Computer Interaction, HCII 2014, held in Heraklion, Crete, Greece in June 2014. The total of 1476 papers and 220 posters presented at the HCII 2014 conferences was carefully reviewed and selected from 4766 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers 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 book constitutes the referred proceedings of the 8th China Conference on Image and Graphics Technologies and Applications, IGTA 2014, held in Beijing, China, in June 2014. The 39 papers presented were carefully reviewed and selected from 110 submissions. They cover various aspects of research in image processing and graphics and related topics, including object detection, pattern recognition, object tracking, classification, image segmentation, reconstruction, etc.

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.

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

Virtual, Augmented and Mixed Reality. Design and Interaction

Why Things Spread--And Why They Stop

High Efficiency Video Coding (HEVC)

Proceedings of the International Conference on Power and Energy (CPE 2014), Shanghai, China, 29–30 November 2014

Human-Computer Interaction. Advanced Interaction, Modalities, and Techniques

Advances in Image and Graphics Technologies

High Performance Computing

Intelligent Data analysis and its Applications, Volume II

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.

The book reports on cutting-edge theories and methods aimed at the control and coordination of agents acting and moving in a dynamic environment. It covers a wide range of systems, including multiagent systems, domotic agents, robotic manipulators, soccer robots, autonomous and semiautonomous robots, as well as systems for industrial applications. Advances in software agents, sensors, computer visions and other related areas are also thoroughly discussed and presented in detail. Based on the 19th edition of the International Workshop of Physical Agents (WAF 2018), held on November 22-23, 2018, in Madrid, Spain, this book offers a snapshot of the state-of-the-art in the field of physical agents, with a special emphasis on autonomous systems such as mobile robots, industrial process or other complex systems.

This book constitutes the proceedings of the 8th International Conference on the Foundations of Augmented Cognition, AC 2014, held as part of HCI International 2014 which took place in Heraklion, Crete, Greece, in June 2014 and incorporated 14 conferences which similar thematic areas. HCII 2014 received a total of 4766 submissions, of which 1476 papers and 220 posters 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 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. The 34 papers presented in the AC 2014 proceedings are organized in topical sections named: emotional and cognitive issues in augmented cognition; machine learning for augmented cognition; augmented cognition for learning and training and augmented cognition for health and rehabilitation.

This book provides developers, engineers, researchers and students with detailed knowledge about the High Efficiency Video Coding (HEVC) standard. HEVC is the successor to the widely successful H.264/AVC video compression standard, and it provides around twice as much compression as H.264/AVC for the same level of quality. The applications for HEVC will not only cover the space of the well-known current uses and capabilities of digital video – they will also include the deployment of new services and the delivery of enhanced video quality, such as ultra-high-definition television (UHDTV) and video with higher dynamic range, wider range of representable color, and greater representation precision than what is typically found today. HEVC is the next major generation of video coding design – a flexible, reliable and robust solution that will support the next decade of video applications and ease the burden of video on world-wide network traffic. This book provides a detailed explanation of the various parts of the standard, insight into how it was developed, and in-depth discussion of algorithms and architectures for its implementation.

Proceeding of the First Euro-China Conference on Intelligent Data Analysis and Applications, June 13-15, 2014, Shenzhen, China

Proceedings of the 2014 International Conference on Control Engineering and Information Systems (ICCEIS 2014, Yueyang, Hunan, China, 20-22 June 2014).

Safety and Reliability – Safe Societies in a Changing World

Computational Science and Its Applications - ICCSA 2014

Bio-Inspired Systems and Applications: from Robotics to Ambient Intelligence

15th International Workshop, IWDW 2016, Beijing, China, September 17-19, 2016, Revised Selected Papers

Algorithms and Architectures

Advances in Physical Agents

The six-volume set LNCS 8579-8584 constitutes the refereed proceedings of the 14th International Conference on Computational Science and Its Applications, ICCSA 2014, held in Guimarães, Portugal, in June/July 2014. The 347 revised papers presented in 30 workshops and a special track were carefully reviewed and selected from 1167. The 289 papers presented in the workshops cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and segmentation and tracking.

This book constitutes the refereed proceedings of the 19th Iberoamerican Congress on Pattern Recognition, CIARP 2014, held in Puerto Vallarta, Jalisco, Mexico, in November 2014. The 115 papers presented were carefully reviewed and selected from 160 submissions. The papers are organized in topical sections on image coding, processing and analysis; segmentation, analysis of shape and texture; analysis of signal, speech and language; document processing and recognition; feature extraction, clustering and classification; pattern recognition and machine learning

This book is a printed edition of the Special Issue “Sustainable Smart Cities and Smart Villages Research” that was published in Sustainability

The two-volume set LNCS 9008 and 9009 constitutes the refereed proceedings of the 12th Asian Conference on Computer Vision, ACCV 2014, in Singapore, in November 2014. The 153 full papers presented were selected from numerous submissions. LNCS 9008 contains the papers selected for the Workshop on Human Gait and Action Analysis in the Wild, the Second International Workshop on Big Data in 3D Computer Vision, the Workshop on Deep Learning on Visual Data, the Local Descriptors for Computer Vision, LNCS 9009 contains the papers selected for the Workshop on Emerging Topics on Image Restoration and Enhancement, the First International Workshop on Robust Reading, the Second Workshop on User-Centred Computer Vision, the International Workshop on Video Segmentation in Computer Vision, the Workshop: My Car Has Eyes: Intelligent Vehicle with Vision Technology, the Third Workshop on E-Heritage and the Workshop on Computer Vision for Affective Computing. LNCS 9010 contains the papers selected for the

Workshop on Intelligent Mobile and Egocentric Vision and the Workshop on Human Identification for Surveillance.

Socinfo 2014 International Workshops, Barcelona, Spain, November 11, 2014, Revised Selected Papers

Breast Imaging

4th International Workshop, BrainLes 2018, Held in Conjunction with MICCAI 2018, Granada, Spain, September 16, 2018, Revised Selected Papers, Part I

The Economics of Discrimination

Sustainable Smart Cities and Smart Villages Research

Computational Forensics

Social Informatics

Image and Video Technology

The two volume set LNCS 13258 and 13259 constitutes the proceedings of the International Work-Conference on the Interplay Between Natural and Artificial Computation, IWINAC 2022, held in Puerto de la Cruz, Tenerife, Spain in May - June 2022. The total of 121 contributions was carefully reviewed and selected from 203 submissions. The papers are organized in two volumes, with the following topical sub-headings: Part I: Machine Learning in Neuroscience; Neuromotor and Cognitive Disorders; Affective Analysis; Health Applications Part II: Affective Computing in Ambient Intelligence; Bioinspired Computing Approaches; Machine Learning in Computer Vision and Robot; Deep Learning; Artificial Intelligence Applications.

Power and Energy selected the 14th International Conference on Power and Energy (CPE 2014), Shanghai, China, 29–30 November 2014), and presents a wide range of topics:- Energy management, planning and policy-making- Energy technologies and environment -Energy prospects- Conventional and renewable power generation- Power system man

This six volume set LNCS 11063 - 11068 constitutes the thoroughly refereed conference proceedings of the 4th International Conference on Cloud Computing and Security, ICCCS 2014, held in Haikou, China, in June 2018. The 386 full papers of these six volumes were carefully reviewed and selected from 1743 submissions. The papers cover ideas and achievements in the theory and practice of all areas of inventive systems which includes control, artificial intelligence, automation systems, computing systems, electrical and informative systems. The six volumes are arranged according to the subject areas as follows: cloud computing, cloud security, encryption, information hiding, IoT security, multimedia forensics

This book constitutes the refereed proceedings of the 12th International Workshop on Breast Imaging, IWDW 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.

Select Proceedings of ICCIML 2021

Recent Advances in Intelligent Information Hiding and Multimedia Signal Processing

Second Chinese Conference, PRCV 2019, Xi’an, China, November 8-11, 2019, Proceedings, Part II

Versatile Video Coding: Latest Advances in Video Coding Standards

18th International Workshop, IWDW 2019, Chengdu, China, November 2-4, 2019, Revised Selected Papers

Nonlinear Dynamics of Electronic Systems

9th International Work-Conference on the Interplay Between Natural and Artificial Computation, IWINAC 2022, Puerto de la Cruz, Tenerife, Spain, May 31 - June 3, 2022, Proceedings, Part II

5th Latin American Conference, CARLA 2018, Bucaramanga, Colombia, September 26-28, 2018, Revised Selected Papers

This book features papers presented at IH-MSP 2018, the 14th International Conference on Intelligent Information Hiding and Multimedia Signal Processing. The scope of IH-MSP included information hiding and security, multimedia signal processing and networking, and bio-inspired multimedia technologies and systems. The book discusses subjects related to massive image/video compression and transmission for emerging networks, advances in speech and language processing, recent advances in information hiding and signal processing for audio and speech signals, intelligent distribution systems and applications, recent advances in security and privacy for multimodal

network environments, multimedia signal processing, and machine learning. Presenting the latest research outcomes and findings, it is suitable for researchers and students who are interested in the corresponding fields. IH-MSP 2018 was held in Sendai, Japan on 26/28 November 2018. It was hosted by Tohoku University and was co-sponsored by the Fujian University of Technology in China, the Taiwan Association for Web Intelligence Consortium in Taiwan, and the Swinburne University of Technology in Australia, as well as the Fujian Provincial Key Laboratory of Big Data Mining and Applications (Fujian University of Technology) and the Harbin Institute of

Technology Shenzhen Graduate School in China.

Safety and Reliability ¶ Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference, ESREL 2018 in Trondheim, Norway, June 17-21, 2018. The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world. These methodologies and applications include: - foundations of risk and reliability assessment and management - mathematical methods in reliability and safety - risk assessment - risk management - system reliability - uncertainty analysis - digitalization and big data - prognostics and system health management -

accident and incident modeling - maintenance modeling and applications - simulation for safety and reliability analysis - dynamic risk and barrier management - organizational factors and safety culture - human factors and human reliability - resilience engineering - structural reliability - natural hazards - security - economic analysis in risk management Safety and Reliability ¶ Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors: offshore oil and gas, nuclear engineering, aeronautics and aerospace, marine transport and engineering, railways, road transport, automotive engineering, civil engineering, critical infrastructures, electrical and electronic engineering, energy production and distribution, environmental engineering, information technology and telecommunications, insurance and finance, manufacturing, marine transport, mechanical engineering, security and protection, and policy making.

This book constitutes the refereed post-conference proceedings of the 5th and 6th International Workshops on Computational Forensics, IWCF 2012 and IWCF 2014, held in Tsukuba, Japan, in November 2010 and August 2014. The 16 revised full papers and 1 short paper were carefully selected from 34 submissions during a thorough review process. The papers are divided into three broad areas namely biometrics; document image inspection; and applications.

Control Engineering and Information Systems contains the papers presented at the 2014 International Conference on Control Engineering and Information Systems (ICCEIS 2014, Yueyang, Hunan, China, 20-22 June 2014). All major aspects of the theory and applications of control engineering and information systems are addressed, including: Intelligent s

14th International Conference, Guimarães, Portugal, June 30 - July 3, 204, Proceedings, Part II

The Rules of Contagion

19th Iberoamerican Congress, CIARP 2014, Puerto Vallarta, Mexico, November 2-5, 2014. Proceedings

Pattern Recognition and Computer Vision

Applications of Computing and Communication Technologies

6th International Conference, ICISP 2014, Cherbourg, France, June 20 -- July 2, 2014, Proceedings

Strategic Information Management

Computer Vision – ACCV 2014

The book includes select proceedings of the International Conference on Computational Intelligence in Machine Learning (ICCCML 2021). The book constitutes peer-reviewed papers on machine learning, computational intelligence, the internet of things, and smart city applications emphasizing multi-disciplinary research in artificial intelligence and cyber-physical systems. This book addresses the comprehensive nature of computational intelligence, artificial intelligence, machine learning, and deep learning to emphasize its character in modeling, identification, optimization, prediction, forecasting, and control of future intelligent systems. The book will be useful for researchers, research scholars, and students to formulate their research ideas and find future directions in these areas. It will help the readers to solve a diverse range of problems in industries and their real-world applications.

The four-volume set LNCS 8517, 8518, 8519 and 8520 constitutes the proceedings of the Third International Conference on Design, User Experience, and Usability, DUXU 2014, held as part of the 16th International Conference on Human-Computer Interaction, HCII 2014, held in Heraklion, Crete, Greece in June 2014, jointly with 13 other thematically similar conferences. The total of 1476 papers and 220 posters presented at the HCII 2014 conferences were carefully reviewed and selected from 4766 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. The total of 256 contributions included in the DUXU proceedings were carefully reviewed and selected for inclusion in this four-volume set. The 76 papers included in this volume are organized in topical sections on design for the web, design for the mobile experience, design of visual information, design for novel interaction techniques and realities, games and gamification.

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 as 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

This volume presents the proceedings of the First Euro-China Conference on Intelligent Data Analysis and Applications (ECC 2014), which was hosted by Shenzhen Graduate School of Harbin Institute of Technology and was held in Shenzhen City on June 13-15, 2014. ECC 2014 was technically co-sponsored by Shenzhen Municipal People's Government, IEEE Signal Processing Society, Machine Intelligence Research Labs, VSB-Technical University of Ostrava (Czech Republic), National Kaohsiung University of Applied Sciences (Taiwan), and Secure E-commerce Transactions (Shenzhen) Engineering Laboratory of Shenzhen Institute of Standards and Technology.

Computational Intelligence in Machine Learning
Cloud Computing and Security
12th International Workshop, IWDM 2014, Gifu City, Japan, June 29 - July 2, 2014, Proceedings
Brainlesion: Glioma, Multiple Sclerosis, Stroke and Traumatic Brain Injuries
Design, User Experience, and Usability: User Experience Design for Diverse Interaction Platforms and Environments
8th Pacific-Rim Symposium, PSIVT 2017, Wuhan, China, November 20-24, 2017, Revised Selected Papers
Cross-Modal Learning: Adaptivity, Prediction and Interaction
4th International Conference, ICCCS 2018, Haikou, China, June 8-10, 2018, Revised Selected Papers, Part IV