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Image Analysis and Recognition Mohamed Kamel
2007-08-30 The refereed proceedings of the 4th
International Conference on Image Analysis and

Recognition are featured in this volume. Seventy-one full papers are presented along with forty-four poster papers. These papers cover image restoration and enhancement, image and video processing and

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analysis, image segmentation, computer vision, pattern recognition for image analysis, shape and matching, motion analysis, tracking, and more.

Information Security Applications Brent

ByungHoon Kang 2018-06-22 This book constitutes the thoroughly refereed post-conference proceedings of the 18th International Conference on Information Security Applications, WISA 2017, held on Jeju Island, Korea, in August 2017. The 12 revised full papers and 15 short papers presented in this volume were carefully reviewed and selected from 53 submissions. The papers are organized in topical sections such as attack and defense; theory in security; web security and emerging technologies; systems security and authentication; crypto protocols; and attack detections and legal aspects.

Image and Vision Computing Wei Qi Yan

2023-02-03 This book constitutes the proceedings of the 37th International Conference, IVCNZ 2022,

which took place in Auckland, New Zealand, in November 2022. The 37 papers (14 accepted for long oral presentation, 23 for short oral presentation) included in this volume were carefully reviewed and selected from 79 submissions. The conference presents papers on all aspects of computer vision, image processing, computer graphics, virtual and augmented reality, visualization, and HCI applications related to these fields.

Computer Vision – ECCV 2020 Andrea Vedaldi
2020-11-18 The 30-volume set, comprising the LNCS books 12346 until 12375, constitutes the refereed proceedings of the 16th European Conference on Computer Vision, ECCV 2020, which was planned to be held in Glasgow, UK, during August 23-28, 2020. The conference was held virtually due to the COVID-19 pandemic. The 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025

submissions. The papers deal with topics such as computer vision; machine learning; deep neural networks; reinforcement learning; object recognition; image classification; image processing; object detection; semantic segmentation; human pose estimation; 3d reconstruction; stereo vision; computational photography; neural networks; image coding; image reconstruction; object recognition; motion estimation.

Knowledge Discovery from Sensor Data Mohamed Medhat Gaber 2010-04-07 This book contains thoroughly refereed extended papers from the Second International Workshop on Knowledge Discovery from Sensor Data, Sensor-KDD 2008, held in Las Vegas, NV, USA, in August 2008. The 12 revised papers presented together with an invited paper were carefully reviewed and selected from numerous submissions. The papers feature important aspects of knowledge discovery from

sensor data, e.g., data mining for diagnostic debugging; incremental histogram distribution for change detection; situation-aware adaptive visualization; WiFi mining; mobile sensor data mining; incremental anomaly detection; and spatiotemporal neighborhood discovery for sensor data.

Image and Video Retrieval Erwin M. Bakker 2003-07-11 Welcome to the 2nd International Conference on Image and Video Retrieval, CIVR2003. The goal of CIVR is to illuminate the state of the art in visual information retrieval and to stimulate collaboration between researchers and practitioners. This year we received 110 submissions from 26 countries. Based upon the reviews of at least 3 members of the program committee, 43 papers were accepted for the research track of the conference. First, we would like to thank all of the members of the Program

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Committee and the additional referees listed below. Their reviews of the submissions played a pivotal role in the quality of the conference. Moreover, we are grateful to Nicu Sebe and Xiang Zhou for helping to organize the review process; Shih-Fu Chang and Alberto del Bimbo for setting up the practitioner track; and Erwin Bakker for editing the proceedings and designing the conference poster. Special thanks go to our keynote and plenary speakers, Nevenka Dimitrova from Philips Research, Ramesh Jain from Georgia Tech, Chris Porter from Getty Images, and Alan Smeaton from Dublin City University. Furthermore, we wish to acknowledge our sponsors, the Beckman Institute at the University of Illinois at Urbana-Champaign, Tsing Hua University, the Institution of Electrical Engineers (IEE), Philips Research, and the Leiden Institute of Advanced

Computer Science at Leiden University. Finally, we would like to express our thanks to several people who performed important work related to the organization of the conference: Jennifer Quirk and Catherine Zech for the local organization at the Beckman Institute; Richard Harvey for his help with promotional activity and sponsorship for CIVR2003; and to the organizing committee of the first CIVR for setting up the international mission and structure of the conference.

HCI International 2021 - Late Breaking Papers: HCI Applications in Health, Transport, and Industry

Constantine Stephanidis 2021-11-19 This book constitutes late breaking papers from the 23rd International Conference on Human-Computer Interaction, HCII 2021, which was held in July 2021. The conference was planned to take place in Washington DC, USA but had to change to a virtual

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conference mode due to the COVID-19 pandemic. A total of 5222 individuals from academia, research institutes, industry, and governmental agencies from 81 countries submitted contributions, and 1276 papers and 241 posters were included in the volumes of the proceedings that were published before the start of the conference. Additionally, 174 papers and 146 posters are included in the volumes of the proceedings published after the conference, as “Late Breaking Work” (papers and posters). The contributions thoroughly cover the entire field of HCI, addressing major advances in knowledge and effective use of computers in a variety of application areas.

Pattern Recognition Karina Mariela Figueroa Mora 2020-06-17 This book constitutes the proceedings of the 12th Mexican Conference on Pattern Recognition, MCPR 2020, which was due to be held in Morelia, Mexico, in June 2020. The conference

was held virtually due to the COVID-19 pandemic. The 31 papers presented in this volume were carefully reviewed and selected from 67 submissions. They were organized in the following topical sections: pattern recognition techniques; image processing and analysis; computer vision; industrial and medical applications of pattern recognition; natural language processing and recognition; artificial intelligence techniques and recognition.

Energy Minimization Methods in Computer Vision and Pattern Recognition Daniel Cremers 2009-08-17

This book constitutes the refereed proceedings of the 7th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition, EMMCVPR 2009, held in Bonn, Germany in August 2009. The 18 revised full papers, 18 poster papers and 3 keynote lectures presented were carefully reviewed and selected

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from 75 submissions. The papers are organized in topical sections on discrete optimization and Markov random fields, partial differential equations, segmentation and tracking, shape optimization and registration, inpainting and image denoising, color and texture and statistics and learning.

Advances in Computing and Communications, Part III Ajith Abraham 2011-07-08 This volume is the third part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 70 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are organized in topical sections on security, trust and privacy; sensor networks; signal and image processing; soft computing techniques; system software; vehicular

communications networks.

IGARSS 2002 2002

Proceedings of the 6th International Conference on Hydroinformatics Shie-Yui Liong 2004-01-01

Hydroinformatics addresses cross-disciplinary issues ranging from technological and sociological to more general environmental concerns, including an ethical perspective. It covers the application of information technology in the widest sense to problems of the aquatic environment. This two-volume publication contains about 250 high quality papers contributed by authors from over 50 countries. The proceedings present many exciting new findings in the emerging subjects, as well as their applications, such as: data mining, data assimilation, artificial neural networks, fuzzy logic, genetic algorithms and genetic programming, chaos theory and support vector machines, geographic information systems and virtual imaging, decision

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support and management systems, Internet-based technologies. This book provides an excellent reference to researchers, graduate students, practitioners, and all those interested in the field of hydroinformatics.

The 24th Annual International Symposium on Computer Architecture, June 2-4, 1997, Denver, Colorado International Symposium on Computer Architecture 1997

Combinatorial Image Analysis Reneta P. Barneva 2016-01-05 This volume constitutes the refereed proceedings of the 17th International Workshop on Combinatorial Image Analysis, IWCA 2015, held in Kolkata, India, in November 2015. The 24 revised full papers and 2 invited papers presented were carefully reviewed and selected from numerous submissions. The workshop provides theoretical foundations and methods for solving problems from various areas of human practice. In contrast to

traditional approaches to image analysis which implement continuous models, float arithmetic and rounding, combinatorial image analysis features discrete models using integer arithmetic. The developed algorithms are based on studying combinatorial properties of classes of digital images, and often appear to be more efficient and accurate than those based on continuous models.

Digital Watermarking Anthony T. S. Ho 2009-08-06

This book constitutes the refereed proceedings of the 8th International Workshop, IWDW 2009, held in Guildford, Surrey, UK, August 24-26, 2009. The 25 revised full papers, including 4 poster presentations, presented together with 3 invited papers were carefully reviewed and selected from 50 submissions. The papers are organized in topical sections on robust watermarking, video watermarking, steganography and steganalysis, multimedia watermarking and security protocols, as

well as image forensics and authentication.

Advancements in Smart Computing and Information Security Sridaran Rajagopal 2023-01-10

This two-volume constitutes the refereed proceedings of the First International Conference on Advancements in Smart Computing and Information Security, ASCIS 2022, held in Rajkot, India, in November 2022. The 37 full papers and 18 short papers presented were thoroughly reviewed and selected from the 206 submissions. The papers are organized in topical sections on artificial intelligence; smart computing; cyber security; industry.

Digital Watermarking Hyoung-Joong Kim

2009-09-30 This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Workshop on Digital Watermarking, IWDW 2008, held in Busan, Korea, in November 2008. The 36 regular papers included in the volume

were carefully reviewed and selected from 62 submissions. Areas of interest to the conference are mathematical modeling of embedding and detection; information theoretic, stochastic aspects of data hiding; security issues, including attacks and counter-attacks; combination of data hiding and cryptography; optimum watermark detection and reliable recovery; estimation of watermark capacity; channel coding techniques for watermarking; large-scale experimental tests and benchmarking; new statistical and perceptual models of content; reversible data hiding; data hiding in special media; data hiding and authentication; steganography and steganalysis; data forensics; copyright protection, DRM, and forensic watermarking; and visual cryptography.

Curves and Surfaces Jean-Daniel Boissonnat

2012-01-06 This volume constitutes the thoroughly refereed post-conference proceedings of the 7th

International Conference on Curves and Surfaces, held in Avignon, in June 2010. The conference had the overall theme: "Representation and Approximation of Curves and Surfaces and Applications". The 39 revised full papers presented together with 9 invited talks were carefully reviewed and selected from 114 talks presented at the conference. The topics addressed by the papers range from mathematical foundations to practical implementation on modern graphics processing units and address a wide area of topics such as computer-aided geometric design, computer graphics and visualisation, computational geometry and topology, geometry processing, image and signal processing, interpolation and smoothing, scattered data processing and learning theory and subdivision, wavelets and multi-resolution methods.

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.

Artificial Intelligence and Soft Computing Leszek

Rutkowski 2015-06-04 The two-volume set LNAI 9119 and LNAI 9120 constitutes the refereed proceedings of the 14th International Conference on Artificial Intelligence and Soft Computing, ICAISC 2015, held in Zakopane, Poland in June 2015. The 142 revised full papers presented in the volumes, were carefully reviewed and selected from 322 submissions. These proceedings present both traditional artificial intelligence methods and soft computing techniques. The goal is to bring together

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scientists representing both areas of research. The first volume covers topics as follows neural networks and their applications, fuzzy systems and their applications, evolutionary algorithms and their applications, classification and estimation, computer vision, image and speech analysis and the workshop: large-scale visual recognition and machine learning. The second volume has the focus on the following subjects: data mining, bioinformatics, biometrics and medical applications, concurrent and parallel processing, agent systems, robotics and control, artificial intelligence in modeling and simulation and various problems of artificial intelligence. *Computational Forensics* Utpal Garain 2015-06-26 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.

Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0

Applications Tran Khanh Dang 2021-11-13 This book constitutes the proceedings of the 8th International Conference on Future Data and Security Engineering, FDSE 2021, held in Ho Chi Minh City, Vietnam, in November 2021.* The 28 full papers and 8 short were carefully reviewed and selected from 168 submissions. The selected papers are organized into the following topical headings: big data analytics and distributed systems; security and privacy engineering; industry 4.0 and smart city: data analytics and security; blockchain and access control; data analytics and healthcare systems;

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and short papers: security and data engineering. *

The conference was held virtually due to the COVID-19 pandemic.

Computer Vision – ACCV 2016 Shang-Hong Lai
2017-03-10 The five-volume set LNCS 10111-10115 constitutes the thoroughly refereed post-conference proceedings of the 13th Asian Conference on Computer Vision, ACCV 2016, held in Taipei, Taiwan, in November 2016. The total of 143 contributions presented in these volumes was carefully reviewed and selected from 479 submissions. The papers are organized in topical sections on Segmentation and Classification; Segmentation and Semantic Segmentation; Dictionary Learning, Retrieval, and Clustering; Deep Learning; People Tracking and Action Recognition; People and Actions; Faces; Computational Photography; Face and Gestures; Image Alignment; Computational Photography and

Image Processing; Language and Video; 3D Computer Vision; Image Attributes, Language, and Recognition; Video Understanding; and 3D Vision.

HCI International 2021 - Late Breaking Papers: Cognition, Inclusion, Learning, and Culture
Constantine Stephanidis 2021-11-12 This book constitutes late breaking papers from the 23rd International Conference on Human-Computer Interaction, HCII 2021, which was held in July 2021. The conference was planned to take place in Washington DC, USA but had to change to a virtual conference mode due to the COVID-19 pandemic. A total of 5222 individuals from academia, research institutes, industry, and governmental agencies from 81 countries submitted contributions, and 1276 papers and 241 posters were included in the volumes of the proceedings that were published before the start of the conference. Additionally, 174 papers and 146 posters are included in the volumes

of the proceedings published after the conference, as “Late Breaking Work” (papers and posters). The contributions thoroughly cover the entire field of HCI, addressing major advances in knowledge and effective use of computers in a variety of application areas.

Wireless Algorithms, Systems, and Applications Lei Wang 2022-11-17 The three-volume set constitutes the proceedings of the 17th International Conference on Wireless Algorithms, Systems, and Applications, WASA 2022, which was held during October 28-30, 2022. The conference took place in Dalian, China. The 95 full and 62 short papers presented in these proceedings were carefully reviewed and selected from 265 submissions. The contributions in algorithms, systems; and applications of internet of things; information processing and data management; radar and sonar networks

Plate to Pixel Helene Dujardin 2011-05-12 Tips and techniques for making food look good—before it tastes good! Food photography is on the rise, with the millions of food bloggers around the world as well as foodies who document their meals or small business owners who are interested in cutting costs by styling and photographing their own menu items, and this book should serve as your first course in food photography. Discover how the food stylist exercises unique techniques to make the food look attractive in the finished product. You’ll get a taste of the visual know-how that is required to translate the perceptions of taste, aroma, and appeal into a stunning, lavish finished photograph. Takes you through the art and techniques of appetizing food photography for everyone from foodies to food bloggers to small business owners looking to photograph their food themselves Whets your appetite with delicious advice on food styling,

lighting, arrangement, and more Author is a successful food blogger who has become a well-known resource for fellow bloggers who are struggling with capturing appetizing images of their creations So, have the cheese say, "Cheese!" with this invaluable resource on appetizing food photography.

Mathematical Software – ICMS 2018 James H. Davenport 2018-07-17 This book constitutes the proceedings of the 6th International Conference on Mathematical Software, ICMS 2018, held in South Bend, IN, USA, in July 2018. The 59 papers included in this volume were carefully reviewed and selected from numerous submissions. The program of the 2018 meeting consisted of 20 topical sessions, each of which providing an overview of the challenges, achievements and progress in a subeld of mathematical software research, development and use.

Combinatorial Pattern Matching Gregory Kucherov 2009-06-18 This book constitutes the refereed proceedings of the 20th Annual Symposium on Combinatorial Pattern Matching, CPM 2009, held in Lille, France in June 2009. The 27 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 63 submissions. The papers address all areas related to combinatorial pattern matching and its applications, such as coding and data compression, computational biology, data mining, information retrieval, natural language processing, pattern recognition, string algorithms, string processing in databases, symbolic computing and text searching.

Next-Generation Applied Intelligence Been-Chian Chien 2009-06-26 The International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE), always sponsored by the International So- ety of Applied

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Intelligence (ISAI), emphasizes applications of applied intelligent systems to solve real-life problems in all areas. It is held every year and has become one of the biggest and most important academic activities concerning the theory and applications of intelligent systems in the world. The IEA/AIE 2009 conference was hosted by the National University of Tainan and National University of Kaohsiung in Taiwan. This was the first time that the IEA/AIE conference was held in Taiwan. We received 286 papers from all parts of the world. Only 84 papers were selected for publication in this volume of LNAI proceedings. Each paper was reviewed by at least two anonymous referees to assure the high quality. We would like to express our sincere thanks to the Program Committee members and all the reviewers for their hard work, which helped us to select the highest quality papers for the conference.

These papers highlight opportunities and challenges for the next generation of applied intelligence and reveal technological innovations in real applications. *Biologically Motivated Computer Vision BMCV*. 2002-11-13 This book constitutes the refereed proceedings of the Second International Workshop on Biologically Motivated Computer Vision, BMCV 2002, held in Tübingen, Germany, in November 2002. The 22 revised full papers and 37 revised short papers presented together with 6 invited papers were carefully reviewed and selected from 97 submissions. The papers are organized in topical sections on neurons and features, motion, mid-level vision, recognition - from scenes to neurons, attention, robotics, and cognitive vision. Image Analysis and Recognition Aurélio Campilho 2020-06-19 This two-volume set LNCS 12131 and LNCS 12132 constitutes the refereed proceedings of the 17th International Conference on Image

Analysis and Recognition, ICIAR 2020, held in Póvoa de Varzim, Portugal, in June 2020. The 54 full papers presented together with 15 short papers were carefully reviewed and selected from 123 submissions. The papers are organized in the following topical sections: image processing and analysis; video analysis; computer vision; 3D computer vision; machine learning; medical image and analysis; analysis of histopathology images; diagnosis and screening of ophthalmic diseases; and grand challenge on automatic lung cancer patient management. Due to the corona pandemic, ICIAR 2020 was held virtually only.

Medical Image Understanding and Analysis Yalin Zheng 2020-01-23 This book constitutes the refereed proceedings of the 23rd Conference on Medical Image Understanding and Analysis, MIUA 2019, held in Liverpool, UK, in July 2019. The 43 full papers presented were carefully reviewed and

selected from 70 submissions. There were organized in topical sections named: oncology and tumour imaging; lesion, wound and ulcer analysis; biostatistics; fetal imaging; enhancement and reconstruction; diagnosis, classification and treatment; vessel and nerve analysis; image registration; image segmentation; ophthalmic imaging; and posters.

Multimodal Pattern Recognition of Social Signals in Human-Computer-Interaction Friedhelm Schwenker 2015-01-03 This book constitutes the thoroughly refereed post-workshop proceedings of the Third IAPR TC3 Workshop on Pattern Recognition of Social Signals in Human-Computer-Interaction, MPRSS 2014, held in Stockholm, Sweden, in August 2014, as a satellite event of the International Conference on Pattern Recognition, ICPR 2014. The 14 revised papers presented focus on pattern recognition, machine learning and

information fusion methods with applications in social signal processing, including multimodal emotion recognition, user identification, and recognition of human activities.

Precision agriculture '09 E.J. van Henten 2009-07-01

Precision Agriculture is becoming ever more relevant as the agricultural industry struggles to come to terms with the environment, economics, traceability, vehicle guidance and crop management. Whilst some benefits have proved elusive, others contribute positively to today's agriculture. Research continues to be necessary and needs to be reported and disseminated to a wide audience. These proceedings contain the reviewed papers from the 7th European Conference on Precision Agriculture. The papers reflect the wide range of disciplines that impinge upon precision agriculture including remote sensing, plant disease and weed detection, yield monitoring, soil sensing,

geo statistics and path planning, regional and crop modelling, cooperation and guidance of robots, precision application, ICT in precision agriculture, future farming and European relevance for precision agriculture. The broad range of research topics reported is a valuable resource for researchers, advisors, teachers and professionals in agriculture. Also note that the reviewed papers from the 4th European Conference on Precision Livestock Farming are presented in a companion publication.

Computer Vision – ACCV 2016 Workshops Chu-Song Chen 2017-03-14 The three-volume set, consisting of LNCS 10116, 10117, and 10118, contains carefully reviewed and selected papers presented at 17 workshops held in conjunction with the 13th Asian Conference on Computer Vision, ACCV 2016, in Taipei, Taiwan in November 2016. The 134 full papers presented were selected from 223

submissions. LNCS 10116 contains the papers selected

Pattern Recognition Jesús Ariel Carrasco-Ochoa
2015-06-03 This book constitutes the refereed proceedings of the 7th Mexican Conference on Pattern Recognition, MCPR 2015, held in Mexico City Mexico, in June 2015. The 30 revised full papers presented were carefully reviewed and selected from 63 submissions. The papers are organized in topical sections on pattern recognition and artificial intelligence; image processing and analysis; robotics and computer vision; natural language processing and recognition; and applications of pattern recognition.

Image and Video Technology Manoranjan Paul
2018-02-15 This book constitutes the thoroughly refereed post-conference proceedings of the 8th Pacific Rim Symposium on Image and Video Technology, PSIVT 2017, held in Wuhan, China, in

November 2017. The total of 39 revised papers was carefully reviewed and selected from 91 submissions. The Pacific-Rim Symposium on Image and Video Technology (PSIVT) 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.

E-Business and Telecommunications Mohammad S. Obaidat 2014-09-11 This book constitutes the refereed proceedings of the 9th International Joint Conference on E-Business and Telecommunications, ICETE 2012, held in Rome, Italy, in July 2012. ICETE is a joint international conference integrating four major areas of knowledge that are divided into six corresponding conferences: International Conference on Data Communication Networking, DCNET; International Conference on

E-Business, ICE-B; International Conference on Optical Communication Systems, OPTICS; International Conference on Security and Cryptography, SECRYPT; International Conference on Wireless Information Systems, WINSYS; and International Conference on Signal Processing and Multimedia, SIGMAP. The 18 full papers presented were carefully reviewed and selected from 403 submissions. They cover a wide range of topics in the key areas of e-business and telecommunications.

Landslides J. Rybar 2018-05-02 The proceedings contain five invited lectures and 99 papers relevant to landslide occurrence and problems from Europe, Asia, America, Africa and Australia and New Zealand. The five special invited lectures deal with a variety of important aspects of landslides.

Combinatorial Image Analysis Petra Wiederhold 2009-11-06 The articles included in this volume were presented at the 13th International Workshop

on Combinatorial Image Analysis, IWCIA 2009, held at Playa del Carmen, Yucatan Peninsula, Mexico, November 24-27, 2009. The 12 previous meetings were held in Paris (France) 1991, Ube (Japan) 1992, Washington DC (USA) 1994, Lyon (France) 1995, Hiroshima (Japan) 1997, Madras (India) 1999, Caen (France) 2000, Philadelphia (USA) 2001, Palermo (Italy) 2003, Auckland (New Zealand) 2004, Berlin (Germany) 2006, and Buffalo (USA) 2008. Image analysis is a scientific discipline which provides theoretical foundations and methods for solving problems appearing in a range of areas as diverse as biology, medicine, physics, astronomy, geography, chemistry, robotics, and industrial manufacturing. It deals with algorithms and methods aimed at extracting meaningful information from images. The processing is done through computer systems, and the focus is, therefore, on images presented in

digital form. Unlike traditional approaches, which are based on continuous models requiring float arithmetic computations and rounding, “combinatorial” approaches to image analysis (also named “discrete” or “digital” approaches) are based on studying the combinatorial properties of the digital images. They provide models and algorithms, which are generally more efficient and accurate than those based on continuous models. Some recent

combinatorial approaches aim at constructing self-contained digital topology and geometry, which might be of interest and importance not only for image analysis, but also as a distinct theoretical discipline. Following the call for papers, IWCI 2009 received 70 submissions. After a rigorous review process, 32 were accepted for inclusion in this volume.