

Advances In Multimedia Information Processing Pcm 2006 7th Pacific Rim Conference On Multimedia Hangzhou China November 2 4 2006 Proceedings Lecture Notes In Computer Science

The two-volume proceedings LNCS 9916 and 9917, constitute the proceedings of the 17th Pacific-Rim Conference on Multimedia, PCM 2016, held in Xi'an, China, in September 2016. The total of 128 papers presented in these proceedings was carefully reviewed and selected from 202 submissions. The focus of the conference was as follows in multimedia content analysis, multimedia signal processing and communications, and multimedia applications and services.

The three-volume set LNCS 101164, 11165, and 11166 constitutes the refereed proceedings of the 19th Pacific-Rim Conference on Multimedia, PCM 2018, held in Hefei, China, in September 2018. The 209 regular papers presented together with 20 special session papers were carefully reviewed and selected from 452 submissions. The papers cover topics such as: multimedia content analysis; multimedia signal processing and communications; and multimedia applications and services.

Growth of knowledge, unparalleled in the history of the human race, results in the rapid development of technology. The solutions that until quite recently remained in the domain of science-fiction now become a part of our everyday life. Information systems and their technologies enter all the spheres of human's existence. Their influence is multiplied by network connections and by multimedia presentations and communications. Our intention was to offer to the readers of this monograph a very broad review of the recent scientific problems in that area. Searching for their solutions had become a principal task of numerous scientific teams all over the world. Preparing this book we have asked for cooperation many European research teams. In effect the monograph is a collection of carefully selected and the most representative – in our opinion - investigations, solutions, and applications presented by different scientific groups from nine countries. Content of the book has been divided into five parts: 1. Multimedia information technology 2. Data processing in information systems 3. Information system applications 4. Web systems and network technologies 5. E-learning methodologies and platforms.

The two-volume proceedings LNCS 9314 and 9315, constitute the proceedings of the 16th Pacific-Rim Conference on Multimedia, PCM 2015, held in Gwangju, South Korea, in September 2015. The total of 138 full and 32 short papers presented in these proceedings was carefully reviewed and selected from 224 submissions. The papers were organized in topical sections named: image and audio processing; multimedia content analysis; multimedia applications and services; video coding and processing; multimedia representation learning; visual understanding and recognition on big data; coding and reconstruction of multimedia data with spatial-temporal information; 3D image/video processing and applications; video/image quality assessment and processing; social media computing; human action recognition in social robotics and video surveillance; recent advances in image/video processing; new media representation and transmission technologies for emerging UHD services.

We are delighted to welcome readers to the proceedings of the 6th Pacific-Rim Conference on Multimedia (PCM). The first PCM was held in Sydney, Australia, in 2000. Since then, it has been hosted successfully by Beijing, China, in 2001, Hsinchu, Taiwan, in 2002, Singapore in 2003, and Tokyo, Japan, in 2004, and finally Jeju, one of the most beautiful and fantastic islands in Korea. This year, we accepted 181

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papers out of 570 submissions including regular and special session papers. The acceptance rate of 32% indicates our commitment to ensuring a very high-quality conference. This would not be possible without the full support of the excellent Technical Committee and anonymous reviewers that provided timely and insightful reviews. We would therefore like to thank the Program Committee and all reviewers. The program of this year reflects the current interests of the PCM's. The accepted papers cover a range of topics, including, all aspects of multimedia, both technical and artistic perspectives and both theoretical and practical issues. The PCM 2005 program covers tutorial sessions and plenary lectures as well as regular presentations in three tracks of oral sessions and a poster session in a single track. We have tried to expand the scope of PCM to the artistic papers which need not to be strictly technical.

This book constitutes the refereed proceedings of the Third IEEE Pacific Rim Conference on Multimedia, PCM 2002, held in Hsinchu, Taiwan in December 2002. The 154 revised full papers presented were carefully reviewed and selected from 224 submissions. The papers are organized in topical sections on mobile multimedia, digital watermarking and data hiding, motion analysis, multimedia retrieval techniques, image processing, multimedia security, image coding, multimedia learning, audio signal processing, wireless multimedia streaming, multimedia systems in the Internet, distance education and multimedia, Internet security, computer graphics and virtual reality, object tracking, face analysis, and MPEG-4.

The two volume set LNCS 3767 and LNCS 3768 constitutes the refereed proceedings of the 6th Pacific Rim Conference on Multimedia, PCM 2005, held in Jeju Island, Korea in November 2005. The 181 revised papers presented were carefully reviewed and selected from a total of 570 submissions. The papers cover a wide range of topics, including all aspects of multimedia, both technical and artistic perspectives and both theoretical and practical issues. Besides papers that focus on traditional topics, such as multimedia communications, audio-visual compressions, multimedia security, image and signal processing techniques, and multimedia data processing, there are also artistic papers which need not to be strictly technical.

Advances in Multimedia Information Processing - PCM 2016 17th Pacific-Rim Conference on Multimedia, Xi'an, China, September 15-16, 2016, Proceedings, Part II Springer

This book constitutes the refereed proceedings of the 15th Pacific Rim Conference on Multimedia, PCM 2014, held in Kuching, Malaysia, in December 2014. The 35 revised full papers and 6 short papers presented were carefully reviewed and selected from 84 submissions. The papers cover a wide range of topics in the area of multimedia content analysis, multimedia signal processing and communications, and multimedia applications and services. They have been organized into topical sections on video coding, annotation, image and photo, applications, people, image analysis and processing under extra help, nearest neighbor, neural networks, and audio. Also included are sections with best papers and posters and demonstrations.

Welcome to the second IEEE Pacific Rim Conference on Multimedia (IEEE PCM 2001) held in Zhongguanchun, Beijing, China, October 22-24, 2001. Building upon the success of the inaugural IEEE PCM 2000 in Sydney in December 2000, the second PCM again brought together the researchers, developers, practitioners, and educators of multimedia in the Pacific area. Theoretical breakthroughs and practical systems were presented at this conference, thanks to the sponsorship by the IEEE Circuit and

Systems Society, IEEE Signal Processing Society, China Computer Foundation, China Society of Image and Graphics, National Natural Science Foundation of China, Tsinghua University, and Microsoft Research, China. IEEE PCM 2001 featured a comprehensive program including keynote talks, regular paper presentations, posters, demos, and special sessions. We received 244 papers and accepted only 104 of them as regular papers, and 53 as poster papers. Our special session chairs, Shin'ichi Satoh and Mohan Kankanhalli, organized 6 special sessions. We acknowledge the great contribution from our program committee members and paper reviewers who spent many hours reviewing submitted papers and providing valuable comments for the authors. The conference would not have been successful without the help of so many people. We greatly appreciated the support of our honorary chairs: Prof. Sun Yuan Kung of Princeton University, Dr. Ya Qin Zhang of Microsoft Research China, and Prof. The two-volume set LNCS 10735 and 10736 constitutes the thoroughly refereed proceedings of the 18th Pacific-Rim Conference on Multimedia, PCM 2017, held in Harbin, China, in September 2017. The 184 full papers presented were carefully reviewed and selected from 264 submissions. The papers are organized in topical sections on: Best Paper Candidate; Video Coding; Image Super-resolution, Deblurring, and Dehazing; Person Identity and Emotion; Tracking and Action Recognition; Detection and Classification; Multimedia Signal Reconstruction and Recovery; Text and Line Detection/Recognition; Social Media; 3D and Panoramic Vision; Deep Learning for Signal Processing and Understanding; Large-Scale Multimedia Affective Computing; Sensor-enhanced Multimedia Systems; Content Analysis; Coding, Compression, Transmission, and Processing.

Welcome to the proceedings of the 10th Pacific Rim Conference on Multimedia (PCM 2009) held in Bangkok, Thailand, December 15-18, 2009. Since its inception in 2000, PCM has rapidly grown into a major conference on multimedia in the Asia-Pacific Rim region and has built up its reputation around the world. Following the success of the preceding conferences, PCM 2008 in Taiwan, PCM 2007 in Hong Kong, PCM 2006 in China, PCM 2005 in Korea, PCM 2004 in Japan, PCM 2003 in Singapore, PCM 2002 in Taiwan, PCM 2001 in China, and PCM 2000 in Australia, the tenth PCM brought researchers, developers, practitioners, and educators together to disseminate their new discoveries in the field of multimedia. Theoretical breakthroughs and practical systems were presented at this conference, thanks to the support of Naresuan University, Mahanakorn University of Technology, and the IEEE Thailand Section. PCM 2009 featured a comprehensive program including keynote talks, regular paper presentations, posters, and special sessions. We received 171 papers from 16 countries including Australia, Sweden, Germany, Italy, Iran, France, Canada, China, Japan, Korea, Malaysia, Singapore, Taiwan, Hong Kong, the UK, and the USA. After a rigorous review process, we accepted only 67 oral presentations and 45 poster presentations. Four special sessions were also organized by world-leading researchers. This book constitutes the proceedings of the 10th Pacific Rim Conference on Multimedia, held in Bangkok, Thailand

during December 15-18, 2009. The papers presented in the volume were carefully reviewed and selected from 171 submissions. The topics covered are exploring large-scale videos: automatic content genre classification, repair, enhancement and authentication, human behavior classification and recognition, image and video coding perceptual quality improvement, image annotation, retrieval, and classification, object detection and tracking, networking technologies, audio processing, 3DTV and multi-view video, image watermarking, multimedia document search and retrieval, intelligent multimedia security and forensics, multimedia content management, image analysis and matching, coding, advanced image processing techniques, multimedia compression and optimization, multimedia security rights and management.

This book constitutes the proceedings of the 14th Pacific-Rim Conference on Multimedia, PCM 2013, held in Nanjing, China, in December 2013. The 30 revised full papers and 27 poster papers presented were carefully reviewed and selected from 153 submissions. The papers cover a wide range of topics in the area of multimedia content analysis, multimedia signal processing and communications and multimedia applications and services.

The 2010 Pacific-Rim Conference on Multimedia (PCM 2010) was held in Shanghai at Fudan University, during September 21–24, 2010. Since its inauguration in 2000, PCM has been held in various places around the Pacific Rim, namely Sydney (PCM 2000), Beijing (PCM 2001), Hsinchu (PCM 2002), Singapore (PCM 2003), Tokyo (PCM 2004), Jeju (PCM 2005), Zhejiang (PCM 2006), Hong Kong (PCM 2007), Tainan (PCM 2008), and Bangkok (PCM 2009). PCM is a major annual international conference organized as a forum for the dissemination of state-of-the-art technological advances and research results in the fields of theoretical, experimental, and applied multimedia analysis and processing. PCM 2010 featured a comprehensive technical program which included 75 oral and 56 poster presentations selected from 261 submissions from Australia, Canada, China, France, Germany, Hong Kong, India, Iran, Italy, Japan, Korea, Myanmar, Norway, Singapore, Taiwan, Thailand, the UK, and the USA. Three distinguished researchers, Prof. Zhi-Hua Zhou from Nanjing University, Dr. Yong Rui from Microsoft, and Dr. Tie-Yan Liu from Microsoft Research Asia delivered three keynote talks to the conference. We are very grateful to the many people who helped to make this conference a success. We would like to especially thank Hong Lu for local organization, Qi Zhang for handling the publication of the proceedings, and Cheng Jin for looking after the conference website and publicity. We thank Fei Wu for organizing the special session on large-scale multimedia search in the social network settings.

This book constitutes the refereed proceedings of the Second IEEE Pacific-Rim Conference on Multimedia (IEEE-PCM 2001), held in Beijing, China in October 2001. The revised 104 regular and 53 poster papers presented were carefully reviewed and selected from a total of 244 papers. The papers are organized in sections on wearable computing, retrieval techniques, coding techniques, systems, visions and

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graphics, face, multimedia retrieval, multimedia education, multimedia presentation and databases, data hiding, image and video coding, retrieval, speech and sound, networking, spoken dialog, multimedia security, multimedia networking, learning and recognition, and watermarking.

This book constitutes the proceedings of the 13th Pacific Rim Conference on Multimedia, held in Singapore during December 4-6, 2012. The 59 revised full papers presented were carefully reviewed and selected from 106 submissions for the main conference and are accompanied by 23 presentations of 4 special sessions. The papers are organized in topical sections on multimedia content analysis, image and video processing, video coding and multimedia information processing, image/video processing and analysis, video coding and multimedia system, advanced image and video coding, cross media learning with structural priors, as well as efficient multimedia analysis and utilization.

Welcome to the proceedings of 9th Pacific-Rim Conference on Multimedia (PCM 2008) held at the National Cheng Kung University, Tainan, Taiwan during Dec-ber 9–13, 2008. The first PCM was held in Sydney in 2000. Since then, it has been held successfully around the Pacific Rim, including Beijing in 2001, Hsinchu in 2002, Singapore in 2003, Tokyo in 2004, Jeju in 2005, Zhejiang in 2006, Hong Kong in 2007 and finally Tainan. PCM is a major annual international conference bringing together researchers, developers, and educators in the field of multimedia from around the world. It covers a wide spectrum of multimedia research, from state-of-the-art theoretical breakthroughs to the practical systems of multimedia analysis and processing. PCM 2008 featured a comprehensive program including tutorials, keynote talks, regular oral presentations, special sessions, and poster sessions. This year, we - cepted 79 papers out of 210 submissions, giving an acceptance rate of 37%. In addition, 39 papers were accepted for poster presentation. The submissions were categorized into five different tracks: multimedia compression, communication and networking, multimedia processing, analysis and retrieval, multimedia databases, systems, and applications, multimedia human–computer interfaces, multimedia security and digital right management, with a total of 210 submissions from 18 countries and regions. Among the five tracks, “multimedia analysis and retrieval” received the most submissions (34% of the submissions). We kindly appreciate the great effort made by the Program Committee members and the additional reviewers in the reviewing of submissions.

This book constitutes the refereed proceedings of the Third IEEE Pacific Rim Conference on Multimedia, PCM 2002, held in Hsinchu, Taiwan in December 2002. The 154 revised full papers presented were carefully reviewed and selected from 224 submissions. The papers are organized in topical sections on mobile multimedia, digital watermarking and data hiding, motion analysis, mulitmedia retrieval techniques, image processing, mulitmedia security, image coding, mulitmedia learning, audio signal processing, wireless multimedia streaming, multimedia systems in the Internet, distance education and multimedia, Internet security, computer graphics and virtual reality, object tracking, face analysis, and MPEG-4.

Welcome to the proceedings of the 5th Paci?c Rim Conference on Multimedia (PCM 2004) held in Tokyo Waterfront City, Japan, November 30–December 3, 2004. Following the success of the preceding conferences, PCM 2000 in Sydney, PCM 2001 in Beijing, PCM 2002 in Hsinchu, and PCM 2003 in Singapore, the ?fth PCM brought together the researchers, developers, practitioners, and educators in the ?eld of multimedia. Theoretical breakthroughs and practical systems were presented at this conference, thanks to the support of the IEEE Circuits and Systems Society, IEEE Region 10 and IEEE Japan Council, ACM SIGMM, IEICE and ITE.

PCM2004featuredacomprehensiveprogramincludingkeynotetalks,regular
paperpresentations,posters,demos,andspecialsessions.Wereceived385papers

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and the number of submissions was the largest among recent PCMs. Among such a large number of submissions, we accepted only 94 oral presentations and 176 poster presentations. Seven special sessions were also organized by world-leading researchers. We kindly acknowledge the great support provided in the reviewing of submissions by the program committee members, as well as the additional reviewers who generously gave their time. The many useful comments provided by the reviewing process must have been very valuable for the authors' work. This conference would never have happened without the help of many people. We greatly appreciate the support of our strong organizing committee chairs and advisory chairs. Among the chairs, special thanks go to Dr. Ichiro Ide and Dr. Takeshi Naemura who smoothly handled publication of the proceedings with Springer. Dr. Kazuya Kodama did a fabulous job as our Web master.

Multimedia represents information in novel and varied formats. One of the most prevalent examples of continuous media is video. Extracting underlying data from these videos can be an arduous task. From video indexing, surveillance, and mining, complex computational applications are required to process this data. Intelligent Analysis of Multimedia Information is a pivotal reference source for the latest scholarly research on the implementation of innovative techniques to a broad spectrum of multimedia applications by presenting emerging methods in continuous media processing and manipulation. This book offers a fresh perspective for students and researchers of information technology, media professionals, and programmers.

This book constitutes the refereed proceedings of the 8th Pacific Rim Conference on Multimedia, PCM 2007, held in Hong Kong, China, in December 2007. The 73 revised full papers and 21 revised posters presented were carefully reviewed and selected from 247 submissions. The papers are organized in topical sections on image classification and retrieval, the AVS china national standard - technology, applications and products, human face and action recognition, and many more topics.

This book constitutes the refereed proceedings of the 7th Pacific Rim Conference on Multimedia, PCM 2006, held in Hangzhou, China in November 2006. The 116 revised papers presented cover a wide range of topics, including all aspects of multimedia, both technical and artistic perspectives and both theoretical and practical issues.

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