

Foreword

It gives us great pleasure to introduce this collection of papers to be presented at the 2006 International Conference on Image Processing, Computer Vision, & Pattern Recognition (IPCV'06), June 26 through 29, 2006, at Monte Carlo Resort, Las Vegas, Nevada, USA.

The Academic Co-sponsors of this year's event include: Massachusetts Institute of Technology's (MIT) Media Lab (<http://www.media.mit.edu/>); Texas Advanced Computer Center (TACC) of University of Texas at Austin (<http://www.tacc.utexas.edu/>); Institute for Informatics Problems of Russian Academy of Sciences, Moscow, Russia (The IIP of Russian Academy of Sciences is co-sponsoring the ILINTEC Workshop and MLMTA Conference only - <http://www.ipiran.ru/english/main.asp>); and The Ohio Supercomputer Center (OSC is co-sponsoring the CIC Conference only - <http://www.osc.edu>).

Organizers and Co-sponsors at-large include: A number of university faculty members and their staff (names appear on the cover of proceedings); World Academy of Science (http://www.world-academy-of-science.org/worldcomp06/ws/index_html); and Computer Science Research, Education, & Applications Press.

Media Co-Sponsors include: HPC wire (<http://www.hpcwire.com/>); GRID today (<http://www.gridtoday.com/>); H2CM Hodges' Health (<http://www.p-jones.demon.co.uk/>); and Charter Cable Internet Access (<http://www.ezisp.info/high-speed/cable-internet.html>).

Other Co-Sponsors include: One Laptop Per Child Association (OLPC; <http://www.laptop.org/>); and International Technology Institute (<http://www.itiworld.org/>).

In addition to the above, several publishers of computer science and computer engineering books and journals, chapters and/or task forces of computer science associations/organizations from 12 countries, and developers of high-performance machines and systems have provided significant help in organizing the conference.

The program committee would like to thank all those who submitted papers for consideration. About 66% of the submissions were from outside the United States. Each submission was evaluated by two referees (except for papers that were submitted to chairs of sessions who were responsible for the evaluation of these papers.) The overall paper acceptance rate was about 30% (as of April 30, 2006).

We are very grateful to the many colleagues who helped in organizing the conference. In particular, we would like to thank the members of the IPCV'06 Program Committee who we hope will offer their help again in organizing the next year's conference. The IPCV'06 Program Committee members are:

Dr. Maria Jose Abasolo, Univ. of the Balearic Islands, Balearic Islands (IPCV/CGVR)
Prof. Hamid R. Arabnia (Coordinator/Co-Chair), University of Georgia, GA, USA (IPCV/CGVR)
Prof. Ramesh Babu, PES Institute of Technology, Bangalore, India (IPCV)
Ananda Chowdhury (PhD Student Member), University of Georgia, GA, USA (IPCV)
Dr. Joan Condell, University of Ulster, Northern Ireland, UK (IPCV/CGVR)
Dr. Lou D'Alotto, York College of the City University of New York, NY, USA (IPCV)
Prof. Xiangjian He (Track Chair), University of Technology, Sydney, Australia (IPCV)
Prof. Tom Hintz (Track Chair), University of Technology, Sydney, Australia (IPCV)
Dr. Carlos Juiz, Universitat de les Illes Balears, Despatx, Spain (IPCV/CGVR)
Dr. Hesham M. Kamel, University of California, Berkeley, California, USA and UAEU, UAE (CGVR)
Dr. Jalal Karam (Track Chair), Lebanese American University, Beirut, Lebanon (IPCV)

Vinod Kumar, Marie Curie Fellow, UKT Eberhard Karls Univ., Tuebingen, Germany (IPCV)
Dr. Orion Sky Lawlor, University of Alaska at Fairbanks, Alaska, USA (CGVR)
Dr. Kuan-Ching Li, Providence University, Taiwan (IPCV)
Prof. Shutao Li, Hunan University, Changsha, P. R. China (IPCV)
Dr. Xuelong Li, University of London, UK (IPCV/CGVR)
Prof. Dan Liu (Track Chair), Dalian Maritime University, P. R. China (IPCV)
Dr. Yan Luo, MEL, NIST, USA (CGVR)
Prof. Mohammad Riaz Moghal, Dean, Univ. College of Eng. & Tech. Mirpur, Pakistan (IPCV)
Prof. Sabah Mohammed, Lakehead University, Ontario, Canada (IPCV)
Dr. Philip Morrow, University of Ulster, County Londonderry, UK (IPCV)
Dr. Jeff Orchard, University of Waterloo, Waterloo, Ontario, Canada (IPCV)
Dr. R. Ponalagusamy, National Institute of Technology, Tamilnadu, India (IPCV)
Shahryar Rahnamayan (PhD Student Member), University of Waterloo, Canada (IPCV)
Dr. Javier Ramirez, University of Granada, Granada, Spain (IPCV)
Prof. Yong Man Ro, Information & Communication University (ICU), Daejeon, Korea (IPCV)
Dr. Nicolas Saunier, University of British Columbia, Vancouver, BC, Canada (IPCV)
Dr. Gerald Schaefer, Nottingham Trent University, UK (IPCV)
Dr. Kok-Swee Sim (Track Chair), Multimedia University, Malaysia (IPCV/CGVR)
Dr. Jie Shen (Track Chair), University of Michigan, Dearborn, Michigan, USA (IPCV)
Prof. Nikolay Metodiev Sirakov, Texa A&M University, Commerce, Texas, USA (IPCV)
Ashu M. G. Solo, Maverick Technologies America Inc., Delaware, USA (IPCV/CGVR)
Dr. Dacheng Tao, University of London, Birkbeck, London, UK (IPCV)
Prof. Helmuth Trefftz, Eafit University, Medellin, Colombia (CGVR)
Dr. Hanene Trichili, Sfax Univ., Tunisia; ENST-Bretagne, France;
and Higner Inst. of Biotechnology, Tunisia (IPCV)
Dr. Mark Ware, University of Glamorgan, Pontypridd, Wales, UK (CGVR)
Prof. Layne T. Watson, Virginia Poly. Inst. & State Univ., Virginia, USA (IPCV)
Dr. Jane You, Hong Kong Polytechnic University, Hong Kong (IPCV/CGVR)
Members of Task Force of CGD (Computer Games)
Members of Task Force of FECS (Frontiers in Education)
Members of Task Force of ICAI (AI and Vision)
Members of Task Force of IKE (Knowledge Extraction)
Members of Task Force of MLMTA (Machine Learning and Imaging Science)
Members of Task Force of MSV (Visualization)

We would also like to thank the followings: UCMSS (Universal Conference Management Systems & Support, San Diego, California, USA) for managing all aspects of the conference; Dr. Tim Field of APC for managing the printing of the proceedings; and the staff of Monte Carlo Resort in Las Vegas for the professional service they provided. Last but not least, we would like to thank IPCV'06 Associate Editors, Drs. Xiangjian (Sean) He, Tom Hintz, Dan Liu, and Kok-Swee Sim.

We present the proceedings of IPCV'06.

Hamid R. Arabnia
 Coordinator & General Co-Chair, IPCV'06 Program Committee