IEEE/NSF Workshop on

Multimodal and Alternative Perception for Visually Impaired People (MAP4VIP)

In Conjunction with ICME 2013, July 15-19, 2013 • Fairmont Hotel, San Jose, California, USA

Duration: full day

Short Bios of the Organizers:

Dr. Zhigang Zhu (zhu@cs.ccny.cuny.edu), Herbert G. Kayser Chair Professor of Computer Science, The City College of New York (CCNY) and The Graduate Center at the City University of New York (CUNY). He directs the CCNY Visual Computing Laboratory (CcvcL), and co-directs the Center for Perceptual Robotics, Intelligent Sensors and Machines (PRISM) at CCNY. His research interests include 3D computer vision, multimodal sensing, virtual/augmented reality, video representation, and various applications in assistive technology, environment, robotics, surveillance and transportation. He has published over 140 technical papers in the related fields. He is an Associate Editor of the Machine Vision Applications Journal, and a Technical Editor of the ASME/IEEE Transactions on Mechatronics. Dr. Zhu chaired two IEEE international workshops, in conjunction with CVPR, in 2004 and 2007, respectively.

Dr. Zhengyou Zhang (zhang@microsoft.com), Principal Researcher and Research Manager at Microsoft Research (MSR), Redmond, USA. His research is in computer vision, speech signal processing, multi-sensory fusion, multimedia computing, real-time collaboration and human-machine interaction. Dr. Zhang is a Fellow of the IEEE. He is the Founding Editor-in-Chief of the IEEE Transactions on Autonomous Mental Development (IEEE T-AMD), and is on the Editorial Board of the International Journal of Computer Vision (IJCV), the Machine Vision and Applications, and the Journal of Computer Science and Technology (JCST). He was on the Editorial Board of the IEEE Transactions on Pattern Analysis and Machine Intelligence (IEEE T-PAMI) from 1999 to 2005, the IEEE Transactions on Multimedia (IEEE T-MM) from 2004 to 2009, the International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI) from 1997 to 2008, among others. He has published over 200 papers in refereed international journals and conferences, and chaired numerous conferences and workshops.

Dr. Kok-Meng Lee (kokmeng.lee@me.gatech.edu), received his M.S. and Ph.D. degrees in mechanical engineering from the Massachusetts Institute of Technology in 1982 and 1985, respectively. He has been with the Georgia Institute of Technology since 1985. As a Professor of mechanical engineering, his research interests include human and machine vision, robotics, automation and optomechatronics. Dr. Lee is a Fellow of ASME and IEEE, and holds eight U.S. patents. He is currently the Editor-in-Chief of the IEEE/ASME Transactions of Mechatronics. He has held representative positions within the IEEE Robotics and Automation Society: he founded and chaired the Technical Committees on Manufacturing Automation (1996 to 1998) and on Prototyping for Robotics and Automation; and served as Chair or Co-Chair for numerous international conferences and on is the AIM Conference Advisory Committee. His awards include Presidential Young Investigator (PYI) Award, Sigma Xi Junior Faculty Award, International Hall of Fame New Technology Award, and the Woodruff Faculty Fellow.

Dr. Yann LeCun (yann@cs.nyu.edu) is Silver Professor of Computer Science and Neural Science at the Courant Institute of Mathematical Sciences and the Center for Neural Science of New York University. He joined AT&T Bell Laboratories in Holmdel, NJ, in 1988, and became head of the Image Processing Research Department at AT&T Labs-Research in 1996. He joined NYU as a professor in 2003, after a brief period as Fellow at the NEC Research Institute in Princeton. His current interests include machine

learning, computer perception and vision, mobile robotics, and computational neuroscience. He has published over 150 technical papers and book chapters on these topics as well as on neural networks, handwriting recognition, image processing and compression, and VLSI design. He has been on the editorial board of IJCV, IEEE PAMI, IEEE Trans. Neural Networks, was program chair of CVPR'06, and is chair of the annual Learning Workshop. He is on the science advisory board of Institute for Pure and Applied Mathematics, and is the co-founder of MuseAmi, a music technology company.

Dr. Yingli Tian (ytian@ccny.cuny.edu), Associate Professor in the Department of Electrical Engineering at the City College of New York. From 2001 to 2008, Dr. Tian was a research staff member at IBM T. J. Watson Research Center. She was one of the inventors of the IBM Smart Surveillance Solutions (SSS) product and was leading the video analytics team. Dr. Tian has published more than 100 papers in journals and conferences and has filed about 30 patents. Her current research focuses on a wide range of computer vision problems from motion detection and analysis, to human identification, facial expression analysis, and video surveillance. She is an area editor for Computer Vision and Image Understanding and a senior member of IEEE.

Dr. Tony Ro (tro@ccny.cuny.edu), Professor of the Department of Psychology and the Director of the Cognitive Neuroscience Doctoral Program, The City College of New York and The Graduate Center - CUNY. His research examines the cognitive and neural architecture involved in attention, perception, and action. His research uses psychophysical methods in neurologically normal and impaired subjects, as well as transcranial magnetic stimulation (TMS), electroencephalography (EEG), structural and functional magnetic resonance imaging (MRI), and optical imaging. He has been doing extensive work in both human vision and somatosensory processing, and the interactions between these sensory systems. His research has been sponsored by the National Institutes of Health and more recently by the National Science Foundation.

Dr. Shawn K. Kelly (skkelly@andrew.cmu.edu) is a biomedical engineer working on the development of a retinal prosthesis for the blind, as well as other implantable medical devices. He received the S.B., M.Eng., and Ph.D. in electrical engineering from the Massachusetts Institute of Technology in 1996, 1998, and 2003, respectively. He joined the Boston Retinal Implant Project in 1996 and developed a portable retinal stimulator for human trials for his masters and a patented low-power neural stimulator chip for his doctorate. He has served as a Research Biomedical Engineer with the Department of Veterans Affairs since 2003, spent the last eight years as a Visiting Scientist at MIT and is now on the research faculty at the Institute for Complex Engineered Systems at Carnegie Mellon University. He leads the design and testing of the electrical systems for the retinal implant. Dr. Kelly's particular areas of interest include neural stimulator circuit design, the electrode/tissue interface, wireless power and data transmission, power management, and assembly and packaging of implantable medical devices. He received the Best Paper award at the 2009 IEEE ISABEL International Symposium on Applied Biomedical and Communication Technologies.