Title:

Intelligence media computing and content analysis

Abstract:

Over the past few years, great progress has been made due to advances in media computing and content analysis. For example, with the adoption of Convolutional Neural Networks (CNNs), computer vision has surpassed human vision in the task of image recognition. Moreover, the improvement in Natural Language Processing (NLP) makes machine translation, speech recognition, and other sequence applications more powerful than ever. It is the significant progress of artificial intelligence algorithms, computing capability, and big data that makes media computing and content analysis increasingly powerful in many applications.

This Workshop focuses on new algorithms to improve the performance of the media computing and content analysis, and consolidating research efforts that aim at novel schemes for applications.

Scope and Topics:

Potential topics include but are not limited to:
- ✧ Natural Language Processing (NLP)
- ✧ Digital Image Processing
- ✧ Digital Speech Processing
- ✧ Image/video scene understanding
- ✧ Content editing and saliency computation
- ✧ Object detection and Segmentation
- ✧ Multimedia Network and artificial intelligence
- ✧ New theories and applications of media computing
- ✧ …

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XIAOBING ZHAO received her M.S. degree in College of information industry, qingyun university, Korea, in 2003 and the Ph.D. degree in computational linguistics from the Beijing language and culture university in 2007.

From 2007, she is a professor at the College of information engineering, Minzu University of China. Her research focuses on machine translation, information retrieval, and other related areas of natural language processing. As a principal investigator, she has been taking charge of more than 20 projects, including the Natural Science Foundation projects of China, the High-Tech. She has published more than 50 papers in high quality journals and international conferences.

Ms Zhao authored a book, won a national invention patent, two software copyrights, one national invention patent, and "Qian weichang first prize of Chinese information processing technology progress". Ms Zhao is the director of "National Language Resource Monitoring & Research Center of Minority Languages", Beijing, China. She is also the member of Chinese Information Processing Society of China (CIPS) and the secretary general of Chinese Minority Language Standardization Committee.

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received his Ph.D. degree from Beijing Jiaotong University in 2010 in Traffic Information Engineering and Control. He was an assistant professor in Research Institutes of Information Technology, Tsinghua University from 2011 to 2012. He was also a visiting scholar in New Jersey Institute and Technology form 2017–2018. Now he is an associate professor in school of Information Engineering, Minzu University of China. And he is the director of Media computing laboratory. His research interests include multimedia network, image processing, and natural language processing.

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Zhang yujun received his bachelor's degree from Nankai university in 1999 and his Ph.D. degree from the institute of computing technology, Chinese academy of sciences in 2004. From September 2009 to September 2010, he was also a visiting scholar at UCLA. He is now a researcher and doctoral supervisor of institute of computing, Chinese academy of sciences. He has published more than 30 academic papers in AAAI, INFOCOM, Globecom, AdHoc Networks, computer journal and software journal, etc.

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Dr Antai Wang has a B.S. in Computational Mathematics from Fudan University in China, a M.S. in Mathematical Statistics from York University in Canada and a M.S. and Ph.D. in Statistics from the University of Rochester in 2002. Before joining NJIT, he worked as an Assistant Professor of Biostatistics at Georgetown University, Associate Professor of Biostatistics in UNMC (University of Nebraska Medical Center) and an Assistant Professor of Clinical Biostatistics in the Biostatistics Department and Herbert Irving Comprehensive Cancer Center at Columbia University. Dr Wang has been an Associate Professor in the Department of Mathematical Sciences at NJIT since July, 2013.Dr. Antai Wang's main research interests focus on survival analysis and microarray data analysis. Dr. Wang has made important contributions in survival data analysis using copula models. He has also conducted research in variable selection in microarray data analysis. Dr. Wang has conducted much collaborative research with medical investigators in their grant applications,

data analyses and manuscript writing. With his continuous effort and collaborations, numerous papers have been published in the areas such as Epidemiology, Cancer Research and Basic Science.

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