

Title:**Object Analysis and Recognition****Abstract:**

With the rapid development of digital images and communication technologies, we often face massive image data every day. Object analysis and recognition is becoming a more and more importance issue in security system area, for instance, security authentication, face detection and recognition, people tracking, behavior prediction, video surveillance. Researchers have been proposed numerous methods to solve these problems. Despite great progresses achieved in recent years, their performance is still far from satisfactory in unconstrained environments where diverse real-world imaging conditions such as varying poses, occlusions, illuminations and views.

The purpose of this workshop is to call for a coordinated effort to understand the opportunities and challenges emerging in computer vision and pattern recognition fields, identify key tasks and evaluate the state-of-the-art, demonstrate innovative methodologies and ideas, introduce large scale real systems or applications, as well as discuss future directions.

Scope and Topics:

The workshop will collect research updates in a timely manner to benefit researches and practitioners. More specifically, topics of interest include, but are not limited to:

- ✧ Traditional technology
 - ✧ Face recognition/Facial expression recognition
 - ✧ 3D face modeling
 - ✧ Face and gait analysis
 - ✧ Human detection, behavior prediction, tracking, reconstruction and recognition
 - ✧ People identification and re-identification
 - ✧ Object segmentation
 - ✧ Transfer learning and domain adaptation learning
- ✧ Deep learning
 - ✧ Deep learning for face analysis
 - ✧ Deep learning for feature representation
 - ✧ Deep learning for object recognition
 - ✧ Deep learning for dimensionality reduction
 - ✧ Deep learning architectures for pattern recognition

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Shaodi You received his Ph.D. and M.E. degrees from The University of Tokyo, Japan in 2015 and 2012 and his bachelor's degree from Tsinghua 610 University, P. R. China in 2009. He is currently a research scientist at Data61-CSIRO (formerly known as NICTA), Australia. He also serves as adjunct lecturer 615 at Australian National University, Australia. His research interests are physics based vision, non-rigid 3D geometry and perception and learning based vision. He is currently the Chair of IEEE Computer Society, Australian Capital Territory Section, Australia. He is the general chair of International Conference on Digital Image Computing: Techniques and Applications (DICTA) 2018. He serves as program chair of ICCV2017 Joint Workshop on Physics Based Vision meets Deep Learning. He serves as reviewer for TPAMI, IJCV, TIP, CVPR, ICCV, SIGGRAPH and etc.

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Yuchao Dai is currently a Professor (supported by the "1000 Young Talent Program" of China) with School of Electronics and Information, Northwestern Polytechnical University, Xi'an, China. Yuchao Dai received the B.E., M.E, and Ph.D. degrees from Northwestern Polytechnical University, Xi'an, China, in 2005, 2008, and 2012, respectively, all in signal and information processing. He was first a Research Fellow with the Research School of Computer Science and then an ARC DECRA Fellow with the Research School of Engineering, Australian National University, Canberra, Australia from 2012 to 2017. His research interests include structure-from-motion, multi-view geometry, low-level computer vision, deep learning, compressive sensing, and optimization. He has published more than 50 papers in prestigious journals and conferences such as IEEE TPAMI, IJCV, CVPR, ICCV and ECCV. He received the Best Paper Award at the IEEE CVPR 2012, the DSTO Best Fundamental Contribution to Image Processing Paper Prize at DICTA 2014, and the Best Algorithm Prize in Non-Rigid Structure-from-Motion Challenge at CVPR 2017, the Best Student Paper at DICTA 2017 and Best Deep/Machine Learning Paper Award at APSIPA ASC 2017.

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Guoqing Zhang received the B.S. and Master degrees in information engineering from the Yangzhou University, Yangzhou, China, in 2009 and 2012, and the Ph.D. degree in pattern recognition and intelligence system from Nanjing University of Science and

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