

CALL FOR PAPERS

Computer Vision and Image Understanding





Introduction:

With the explosive increasing of video data, video analysis techniques become more and more important in the field of computer vision and image understanding and other related areas. Video analysis techniques have great potential applications in multimedia, human computer interface, surveillance, copyright protection, and so on. Some challenges exist in video analysis research, such as motion analysis, video semantic understanding, and abnormal event detection, and most of these challenges are mitigated through the theories of pattern recognition and artificial intelligence. For example, the Markov chain Monte Carlo sampling Monte Carlo has been well applied for video tracking and motion analysis; machine learning, such as the support vector machines and boosting have been widely used for video classification and retrieval; graph based statistical learning has achieved success in moving object segmentation and video clustering; and the semi-supervised learning has boomed in image and video editing.

In recent years, video analysis has been given much more attention, and many literatures have been published in conferences, such as CVPR, ICCV, ACM Multimedia, etc. The goals of this special issue are: (1) filling the need of a comprehensive overview of the new approaches; (2) developing novel techniques to target specific problems in video analysis; and (3) designing novelty video application systems for our life. The target audience of this special issue includes researchers and engineers related to video analysis.

Topics:

Topics of this special issue include, but not limit to, the following:

- Motion analysis and moving object segmentation
- Video based object recognition
- Video classification and clustering
- Video retrieval and browsing
- Event analysis.
- Video authoring and editing
- Video copyright protection
- Video processing for mobile devices
- Video based multimedia system
- Other Industrial applications

Important Dates:

Full paper due: October 1 2007 Fist notification: February 1 2008

Revised manuscript (for second review) due: March 1st 2008

Acceptance notification: May 1st 2008 Final manuscript due: June 1st 2008

Publication of the special issue: the 4th Quarter 2008.

Submission Procedure:

All the papers should be full journal length versions and follow the guidelines set out by CVIU. All the papers will be peer reviewed following the CVIU reviewing procedures.

Guest editors:

Dr Qingshan Liu, Chinese Academy of Sciences and Rutgers University

URL: http://nlpr-web.ia.ac.cn/english/iva/Homepage/Qingshan/

Email: qsliu@nlpr.ia.ac.cn qsliu@cs.rutgers.edu

Tel: +1-732-445-2795, +86-10-62632267

Dr Xuelong Li, University of London URL: http://www.dcs.bbk.ac.uk/~xuelong/

Email: xuelong_li@ieee.org Tel: +44-20-7631-6796

Dr Ahmed Elgammal, Rutgers University URL: http://www.cs.rutgers.edu/~elgammal/

Email: elgammal@cs.rutgers.edu Tel: +1-732-445-0021

Dr Xian-sheng Hua, Microsoft Research

http://research.microsoft.com/~xshua/index.html Email: xshua@microsoft.com Tel: +86-10-58963200

Dr Dong Xu, Columbia University

URL: http://www.ee.columbia.edu/~dongxu/

Email: dongxu@ee.columbia.edu Tel: +1-212-854-7477

Dr Dacheng Tao, Hong Kong Polytechnic University

URL: http://www4.comp.polyu.edu.hk/~csdct/

Email: dacheng.tao@gmail.com Tel: +852-2766 7266