

Call for Papers

IEEE Transactions on Circuits and Systems for Video Technology

Special Issue on Event Analysis in Videos

Event analysis in videos is a critical task in many applications. Activity recognition that aims to recognize actions from video and in particular abnormal event recognition in surveillance video has received significant attention from the research community. In this special issue, we focus on event analysis in broad problem domains. Event recognition in specific domains, such as highlight detection in sports videos, has attracted much interest in the past decade. Recently, due to the emergence of online video search, the research community has become interested in event content analysis for both broadcast and user-generated videos. For news videos, Large-Scale Concept Ontology for Multimedia (LSCOM) has defined 56 event/activity concepts, covering a broad range of events such as airplane flying, car crash, riot, people marching, and so on. Researchers have also started to investigate event recognition from other video sources, such as education videos and medical videos. For these applications, we have witnessed the effectiveness of using both static and temporal information.

This special issue seeks original research in video event analysis for all domains. The goals of this special issue are twofold: (1) presenting novel fundamental techniques applicable to more than one problem domains, and (2) showcasing robust solutions to targeted problems in news video, sports video, education video, personal video, web video, and other applications.

Manuscripts are solicited to address a wide range of topics in video event analysis, including but not limited to the following:

- ✧ General framework for event analysis
- ✧ Normal and reoccurring event detection
- ✧ Video pattern discovery
- ✧ Abnormal and rare event detection
- ✧ Event clustering and classification
- ✧ Motion action classification
- ✧ Human centered event recognition
- ✧ Video search and retrieval by event
- ✧ Spatial-temporal modeling and object trajectory analysis for event recognition
- ✧ Video-based biometrics
- ✧ Robust systems: news, sports, etc.

Guidelines for authors can be found at <http://tcsvt.polito.it/authors.html>. Papers submitted to this special issue should have a distinctive title using the format: *SIEAV*<title>. All papers including invited papers will be reviewed by experts in the field.

*** Important Dates ***

Manuscript submission:	15 th February	2008
Preliminary results:	15 th May	2008
Revisions due:	15 th June	2008
Notification:	15 th July	2008
Final manuscripts due:	15 th August	2008
Anticipated publication:	November	2008

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