



Big Data Computer Vision

**A Special Track of the
10th International Symposium on Visual Computing (ISVC14)**

<http://www.isvc.net>

December 8-10, 2014

Las Vegas, Nevada, USA

Scope:

Big data grow exponentially in the last decade and video/image generated by sensors and devices has become the largest source. This unprecedented amounts of video/image data has created great opportunities — uncovering new insights from big data is a top business priority; and it also has posed many fundamental technological challenges. One of the most critical challenges is how to intelligently analyze and understand the visual information in such large scale video/image data.

This special session focuses on large-scale computer vision and machine learning algorithms, methods and solutions for addressing the increasing amounts of video/image data. It will cover all the major aspects of big data vision and will be the venue for the academic community and industry to discuss their recent advances on big data computer vision in the various domains.

Topics:

The topics of interest include but are not limited to the following areas:

- Automatic / semi-automatic video database annotation
- Benchmark “big” video database
- MapReduce based computer vision application and parallel computing in general
- Scalable algorithms and models that can handle big data
- Online algorithms that can handle slow changing data
- Self-taught algorithm and its applications
- Scene understanding, SLAM and semantic mapping
- Image search, Image retrieval and image indexing on large data base
- Threat assessment/detection from the social media
- Object detection, tracking and recognition
- Semantic video summarization and video synopsis
- Video data visualization

Paper Submission Procedure:

Papers submitted to ISVC 2014 Special Track must not have been previously published and must not be currently under consideration for publication elsewhere. Manuscripts should be submitted in camera-ready format and should not exceed **12 pages**, including figures and tables (see <http://www.isvc.net> for details). All papers accepted will appear in the symposium proceedings which will be published by **Springer-Verlag** in the **Lecture Notes in Computer Science (LNCS)** series.



Important Dates:

Paper submissions	August 23, 2014
Notification of acceptance	October 7, 2014
Final camera ready paper	October 31, 2014
Advance Registration	October 31, 2014
ISVC14 Symposium	December 8-10, 2014

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