



Computer Vision as a Service

A Special Track of the
12th International Symposium on Visual Computing (ISVC'16)

<http://www.isvc.net>

December 12-14, 2016, Las Vegas, Nevada, USA

Scope:

Computer vision as an advanced computational technology has been around in several scientific disciplines including biological, biomedical, industrial, social, natural sciences, and many more to high level analysis and understanding of digital images. Most of the computer vision algorithms are complicated in code, they are computationally expensive, and their implementations are available for only a few platforms. This operational restriction causes various difficulties to utilize them, and even more, it makes different challenges to establish novel experiments and develop new research ideas. Software as a Service (SaaS) architectural model which has emerged as a modern software deployment strategy is able to facilitate Rapid Application Development (RAD), providing application-to-application interaction for computer vision algorithms on the Internet.

This special session focuses on methods, algorithms, solutions, and design strategies to address scalable and distributed computer vision services over the Internet. The track is expected to bridge the gap between computer vision, World Wide Web services, and SaaS architectural design, and open the doors for many interesting directions from the computer vision community to the Internet of Things technology.

Topics:

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

- Computer Vision as a Service
- Big data computer vision as a Service
- Designing, building, and managing Computer Vision as a Service platforms
- Scalable and distributed computer vision algorithms and services
- Service oriented architecture for computer vision algorithms
- Turning computer vision algorithms into World Wide Web services
- Turning computer vision algorithms into cloud services

- Public and private cloud infrastructures for computer vision methods
- Object detection, tracking, and recognition as a Service
- Medical image analysis as a Service
- Video analysis as a Service
- Image processing as a Service
- Image segmentation and registration as a Service
- 3D surface reconstruction, mapping, and stereo vision as a Service
- Image retrieval and indexing as a Service
- APIs for computer vision applications
- Performance evaluation for Computer Vision as a Service platforms

Paper Submission Procedure:

Papers submitted to the 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 20, 2016
Notification of acceptance	September 25, 2016
Final camera ready paper	October 21, 2016
Advance Registration	October 21, 2016
ISVC16 Symposium	December 12-14, 2016

Organizers:

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