

ICDSC 2015

Seville, Spain, September 8-11, 2015

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CALL FOR PAPERS

Smart camera networks are becoming a fundamental piece of our intelligent cities, buildings and homes, progressively inserting themselves in our lives. From smart surveillance systems composed of a multitude of smart camera nodes to small wearable cameras able to render a visual log of our daily experience. These devices interact with each other and with a wealth of other smart stuff, and of course the internet. This rapid development is being possible thanks to the convergence of several technologies. From advanced image sensors and vision chips to embedded vision systems capable of efficient feature extraction, image encoding and wireless transmission of the relevant visual content. This opens the door to new application domains, where video analytics and the extraction of semantic information from the scene is performed in a distributed fashion, implementing a new type of cooperative and/or collaborative vision, and even fusing visual information with other sensory data.

The ACM/IEEE International Conference on Distributed Smart Cameras (ICDSC) —that is now in its 9th edition— is the appropriate forum to discuss recent advances and open issues in these topics. After the successful events celebrated in [Venice \(2014\)](#), [Palm Springs \(2013\)](#), [Hong Kong \(2012\)](#), [Ghent \(2011\)](#), [Atlanta \(2010\)](#), [Como \(2009\)](#), [Stanford \(2008\)](#) and [Vienna \(2007\)](#), this year ICDSC will be held in Seville, Spain. Once the gate to the new world, Seville is nowadays one of the largest cities in southern Europe, it has a vibrant cultural life and the aspiration to become a technological innovation hub of the south.

Papers are invited in the following and related areas:

Smart image sensors and vision chips

- Circuits and systems for image sensing
- Parallel processing hardware
- HW/SW co-design for embedded vision
- Reconfigurable vision processing arch.
- High-performance image sensors

Smart camera and network architectures

- Camera system designs and architectures
- Image sensing/processing for smart cameras
- Architectures for camera networks
- Embedded vision programming
- Distributed video coding

Distributed computer vision

- Distributed video analytics
- Resource management and task allocation
- Multi-sensor data aggregation
- Collaborative extraction, information fusion
- Edge and cloud computing

Emerging applications and case studies

- Vision-based smart environments
- Surveillance and tracking applications
- Distributed multimedia and gaming apps
- Position discovery and middleware apps
- Context-aware networks
- Sports

Mobile Vision

- Crowdsourcing
- Sensing for mixed/augmented reality
- Structure-from-motion in mobile devices
- Visual landmark localization
- Object recognition
- Egovision

Visual sensor networks

- Active vision
- Self-reconfiguring camera networks
- Wireless and mobile image sensor networks
- Topology discovery
- Social media and big data

Double blind review: ICDSC reviewing is double blind. Do not include any author information such as name and affiliations in the paper.

As with the previous editions, ICDSC 2015 will feature a PhD Forum and a Demo Session. Proceedings will be published at IEEEExplore/ACM DL (co-sponsoring under negotiation). Authors of high quality papers will be invited to extend their work and submit it for a special issue in a JCR-indexed journal. More information available at the conference website: www.icdsc.org

Important dates:

Paper submission deadline:	April 20, 2015
Notification of acceptance:	June 4, 2015
Camera ready and early registration deadline:	July 3, 2015
PhD Forum and demo papers deadline:	July 3, 2015