

ICDSC 2014: Eighth ACM/IEEE International Conference on

Distributed Smart Cameras

November 4 - November 7, 2014

Venezia, Italy

<http://icdsc.org>



With progressive deployment of smart cameras into conventional camera networks and emerging mobile applications, new research and development opportunities have arisen. Open issues in resource management and task allocation, embedding video analytics into low power devices, organizing the sensor network, efficient video communication, edge/cloud computing, distributed analysis, etc., require the commitment of researchers in different fields for a multidisciplinary approach.

The eighth edition of the ACM/IEEE International Conference on Distributed Smart Cameras (ICDSC) will be held in Venezia, ITALY. Venezia is one of the most beautiful cities in the world and will be a perfect venue for presenting the innovations in the field after the past editions in Palm Springs (2013), Hong Kong (2012), Ghent (2011), Atlanta (2010), Como (2009), Stanford (2008) and Vienna (2007). Coincidentally, the dates of this year fit well with another major conference (IEEE ICIP - <http://icip2014.wp.mines-telecom.fr/>), which will be held in Paris, France one week before the ICDSC, allowing the participants to connect the two events in two wonderful cities.

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Papers will be expected in, but not limited to, the following topics:

Smart camera and network architectures

- Camera system designs and architectures
- Image sensing and processing for smart cameras
- Architectures and protocols 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

Visual sensor networks

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

Mobile Vision

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

Emerging applications and case studies

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

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 2014 will feature a PhD Forum where students present and defend their research topics and receive feedback from an academic jury. Accepted papers (including demo and PhD forum papers) will be published and catalogued at the IEEEXplore.

Authors of high quality papers will be invited to extend their work and submit it for the special issues on a high-ranked journal. More information will be posted on the conference website when available.

Important Dates

Paper submission deadline: ~~May 4, 2014~~ **May 11, 2014 (extended)**

Notification of acceptance: June 15, 2014

Camera ready and early registration deadline: June 30, 2014

PhD Forum and demo papers deadline: August 20, 2014