ICDSC 2013: Seventh ACM/IEEE International Conference on

Distributed Smart Cameras

October 29 - November 1, 2013
Palm Springs, California, USA
http://icdsc.org

Technological developments in imaging, processing, and networking have created an opportunity for multi-disciplinary approaches to applications based on distributed computer vision. The extensive availability and use of cameras in various application domains calls for the study of new embedded processing systems and algorithms. After the successful 6th ACM/IEEE International Conference on Distributed Smart Cameras (ICDSC) in Hong Kong in 2012 and the previous ones in Vienna (2007), Stanford (2008), Como (2009), Atlanta (2010), and Ghent (2011), the seventh edition of the ICDSC will be held in Palm Springs, California, USA. The conference will attract researchers from multiple fields such as computer vision, pervasive computing, embedded systems, and sensor networks.

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Papers are invited in the following and related areas:

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
- Image processing with network security

Visual sensor networks
- Resource management in camera networks
- Auto reconfiguration of sensor networks
- Wireless and mobile image sensor networks
- Multi-modal sensor networks
- Learning and information fusion in sensor network
- Visual sensor network applications

Distributed computer vision and fusion
- Distributed capture and vision processing algorithms
- 3D scene analysis
- Multi-view vision for Human-Computer Interfaces
- Distributed appearance modeling and object view-angle coverage
- Multi-sensor data aggregation
- Collaborative extraction, information fusion
- Image processing with computational and energy constraints

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 and other emerging applications

Quality papers will be selected for special issues in the relevant journals such as IEEE Journal of Special Topics in Signal Processing, IEEE Transaction on Circuits and Systems in Video Technology, and the ACM Transactions on Sensor Networks.

The conference also invites researchers and industry-based developers to participate in a demo session and present the latest results implemented in related areas. As with the previous editions, ICDSC 2013 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.

Special Session proposal deadline: May 20, 2013
Abstract submission deadline: June 3, 2013*
Paper submission deadline: June 10, 2013*
PhD Forum and demo papers deadline: August 19, 2013
* Abstract submission is *required* for submitting the full paper.