

**Fifth ACM/IEEE International Conference on
Distributed Smart Cameras
August 23—26, 2011, Ghent, Belgium**



Technological developments in imaging, processing, and networking have created an opportunity for multi-disciplinary approaches to applications based on vision. The extensive availability and use of cameras in various application domains calls for the study of new embedded and distributed processing systems and algorithms. After the successful meetings in Vienna (2007), Stanford (2008), Como (2009) and Atlanta (2010), the fifth edition of the ACM/IEEE International Conference on Distributed Smart Cameras will be held in the ancient and lively city of Ghent. The conference will attract researchers from multiple fields such as computer vision, pervasive computing, embedded systems and sensor networks. ICDSC 2011 will be co-located with Advanced Concepts for Intelligent Vision Systems (ACIVS 2011), a vision systems conference. Attendance to both conferences is possible by subscribing to one.

Smart camera and network architectures:

- Camera node architectures
- Image sensing techniques for smart cameras
- Architectures and protocols for camera networks
- Embedded vision programming

Distributed computer vision and fusion:

- Distributed vision processing algorithms
- 3D scene analysis
- Multi-view vision for HCI
- Distributed appearance modelling
- Multi-sensor data fusion
- Collaborative extraction, information fusion

Visual sensor networks:

- Resource management in camera networks
- Automatic reconfiguration of sensor networks
- Wireless and mobile image sensor networks
- Multi-modal sensor networks

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

The conference invites researchers and industry-based developers to participate in a demo session and present the latest results implemented in related areas.

Accepted papers will be published and catalogued at IEEEXplore. Authors of high-quality articles will be invited to submit an extended version to a special issue in ACM Transactions on Embedded Computing Systems and Image and Vision Computing, respectively.

As with the previous editions, ICDSC 2011 will feature a PhD Forum where students present and defend their research topics and receive feedback from a panel.

Workshop proposal deadline: 27-03-2011

Paper submission deadline: 10-04-2011

PhD Forum and “Work in Progress” deadline: 19-06-2011

General chair: Richard Kleihorst, VITO NV and Ghent University, Belgium.

Local chair: Wilfried Philips, Ghent University, Belgium.

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