

Call for Participation

First ACM/IEEE International Conference on Distributed Smart Cameras (ICDSC-07)



Website: <http://www.ICDSC.org/>

September 25-28, 2007 Vienna, Austria

Early Registration Deadline: Aug. 1, 2007



Scope: Distributed smart cameras combine techniques from computer vision, distributed processing, and embedded computing. Technological advances in the design of sensors and processors have facilitated the development of efficient embedded vision-based techniques. Design of scalable, network-based applications based on high-bandwidth data such as images requires a change of paradigm in the processing methodologies, thus creating opportunities for designing distributed and collaborative techniques. As a result, novel smart environment applications can be enabled that are interpretive, context aware, and user centric in nature.

The conference aims to provide an opportunity for researchers working in the areas of smart camera architectures, algorithm design, embedded vision-based processing, and smart environments to exchange their most recent results. Offering insight into the potentials and challenges of distributed vision networks and an outlook of research opportunities ahead are also the objectives of the conference. The conference program features lecture and poster presentations, demonstrations, invited talks, and tutorials.

Plenary Speakers:

- Feng Zhao, Microsoft Research, USA,
“Sensing Platforms for World-wide Sensor Web”
- Mubarak Shah, Central Florida University, USA,
“Video Surveillance and Monitoring Using Distributed Cameras”
- Wilfried Philips, Ghent University, Belgium,
“Challenges for Single- and Multi-Camera Video Processing”

Tutorials:

- Andrea Cavallaro, Queen Mary University of London, UK,
“Smart cameras: algorithms, evaluation and applications”
- Björn Gottfried, University of Bremen, Germany,
“Ambient intelligence and the role of spatial reasoning: Smart environments with smart cameras”
- Richard Radke, Rensselaer Polytechnic Institute, USA,
“Multiview Geometry for Camera Networks”
- Wilfried Elmenreich, Vienna University of Technology, Austria,
“Real-time Sensor Networks for Smart Cameras: Communication, Data Processing and Applications”

Technical Session Topics:

- Smart camera architectures
- Image sensing techniques for smart cameras
- Embedded vision programming
- Fusion of vision and other sensors
- Distributed vision processing algorithms
- Distributed appearance modeling
- Collaborative feature extraction, data and decision fusion
- Architectures and protocols for camera networks
- Wireless and mobile image sensor networks
- Position discovery and middleware applications
- Vision-based smart environments
- Surveillance and tracking applications
- Multi-view vision for human-computer interaction
- 3D scene analysis
- Distributed multimedia and gaming applications

Demo Session:

A dedicated session to academic and industry-based demos

Panel Discussion:

Panel consisting of academic and industry-based members will discuss upcoming application trends

PhD Forum:

- Students present their PhD research in spot posters and short talks
- Panel will discuss potential research topics with students

Visit <http://www.icdsc.org> for program and participation details.

General Chairs:

- Bernhard Rinner (Klagenfurt University, Austria)
- Wayne Wolf (Princeton University, USA)

Program Chairs:

- Hamid Aghajan (Stanford University, USA)
- Richard Kleihorst (NXP Research, Netherlands)

Technical Program Committee:

- Kiyoharu Aizawa (University of Tokyo, Japan)
- Rick Baer (Micron Technology, USA)
- Alex Berestov (SONY Electronics, USA)
- François Berry (Université Blaise Pascal, France)
- Horst Bischof (TU Graz, Austria)
- Andrea Cavallaro (Queen Mary, Univ. of London, UK)
- Guanling Chen (UMASS Lowell, USA)
- Alexander Danilin (NXP Research, Netherlands)
- Lijyanage De Silva (Massey University, New Zealand)
- Wilfried Elmenreich (TU Wien, Austria)
- Gene Frantz (Texas Instruments, USA)
- Rachel Goshorn (Naval Postgraduate School, USA)
- Pieter Jonker (TU Delft, Netherlands)
- Aman Kansal (Microsoft Research, USA)
- Sam Kavusi (Bosch RTC, USA)
- Mathias Kolsch (Naval Postgraduate School, USA)
- Xenofon Koutsoukos (Vanderbilt University, USA)
- Suk Hwan Lim (HP Labs, USA)
- Jacky Mallett (MIT Media Labs, USA)
- Johnny Park (Purdue University, USA)
- Andrea Prati (Univ. di Modena e Reggio Emilia, Italy)
- Richard Radke (RPI, USA)
- Mohammad Rahimi (UCLA, USA)
- Jim Reich (PARC, USA)
- Senem Velipasalar (Univ. of Nebraska-Lincoln, USA)
- Yuan-Fang Wang (UC Santa Barbara, USA)
- Scott Wills (Georgia Tech, USA)

Publicity Chair:

- Johnny Park (Purdue University, USA)

Demos Chair:

- Ben Schueler (NXP Research, Netherlands)

Local Arrangements Chairs:

- Wilfried Elmenreich (TU Wien, Austria)
- Roman Pflugfelder (Austrian Research Centers)

Important Dates:

- **Paper submission:**
 - Full paper: June 4, 2007 (expired)
 - Notification of acceptance: July 9, 2007
 - Camera-ready paper (author registration): July 23, 2007
 - Early registration deadline: August 1, 2007