Call for Papers
on the track of
Machine Vision in Automation
for
3rd IEEE Conference on Automation Science and Engineering
(IEEE CASE 2007)
http://www.ieee-case.org


On behalf of the organizing committee of the Track on Machine Vision in Automation, we invite you to submit your papers to CASE 2007 describing scientific methods and technologies that address both theoretical concerns and practical needs related to machine vision and its applications in automation and in the relevant fields. The purpose of the track is to bring together researchers and practitioners from both academia and industry, so that they can exchange their knowledge and stimulate each other through intensive discussions. Submissions of scientific results from experts in academia and industry worldwide are strongly encouraged. Topics to be covered include, but are not limited to:

- Vision algorithms
- Visual sensors and machine vision systems
- Factory Automation
- Robot vision
- Machine vision in traffic automation
- Visual surveillance
- Action analysis and recognition
- Vision for human Computer interface
- Other applications of machine vision systems

Paper Submission
Author(s) should submit full papers electronically in double column PDF format. All papers will be peer-reviewed, and the selected ones will be published in CD-ROM. Six pages are allowed per paper, and detailed instructions for paper preparation and submission will be available on the conference web site: http://www.ieee-case.org. Please address all inquiries regarding the paper submission procedure to the IEEE CASE 2007 Program Chair, Dr. Mike Tao Zhang, at mike.zhang@cal.berkeley.edu.

Important Dates
April 30, 2007 Submission of papers (FIRM)
June 30, 2007 Paper acceptance notification to authors
July 15, 2007 Final camera-ready papers due

Track Co-Chairs
Prof. Y. F. Li
City University of Hong Kong
meyfli@cityu.edu.hk

Prof. Shigang Li
Iwate University
li@cis.iwate-u.ac.jp

Dr. Qinggang Meng
Loughborough University
q.meng@lboro.ac.uk

Hong Kong
Japan
UK
IEEE Conference on Automation Science and Engineering 2007
September 22-25, 2007
Scottsdale, Arizona, U.S.A.
Sponsored by IEEE Robotics and Automation Society

Call for Papers

The third annual IEEE Conference on Automation Science and Engineering 2007 (IEEE CASE 2007), sponsored by the IEEE Robotics and Automation Society, will be held on September 22 to 25, 2007 in Scottsdale, Arizona, U.S.A. The goal is for broad coverage and dissemination of foundational research on automation among researchers, academicians, and industry practitioners. The focus is on scientific methods for automating machines and systems operating in structured environments over long periods, and also for the explicit structuring of environments. The first IEEE CASE was successfully held in 2005 in Edmonton, Canada and the second in Shanghai, China in 2006. CASE is an offspring of the flagship automation journal, IEEE Transactions on Automation Science and Engineering, IEEE T-ASE, http://www.ieee.org/t-ase.

The technical program of IEEE CASE will consist of tutorials, workshops, invited talks, paper presentations, posters, and panel discussions. Papers describing original work on abstractions, algorithms, theories, methodologies, and case studies are invited including but not limited to the following areas:

- Ambient Intelligence
- Automatic Identification and Security
- Automation in Life Sciences: Biotechnology, Pharmaceutical, and Health Care
- Business and Software
- Construction Automation
- Discrete Event Systems & Petri Nets
- Food Handling and Processing
- Home, Laboratory, and Service
- Human-Machine Interaction & Coordination
- Instrumentation & Measurement
- Laboratory Automation
- Manufacturing Automation
- Manufacturing, Maintenance, & Supply Chain
- Multi-sensor Fusion and Integration
- Micro/Nano-scale Automation and Assembly
- Product Design, Development, & Prototyping
- Planning, Scheduling, and Coordination
- RFID Application
- Risk Management
- Semiconductor Manufacturing
- System Modeling, Analysis, and Performance Evaluation
- Intelligent Transportation
- Vision in Automation

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General Chair
Prof. Deirdre Meldrum
Dean, Ira A. Fulton School of Eng.
Arizona State University
Tempe, Arizona, U.S.A.
dmeldrum@asu.edu

Program Chair
Dr. Mike Tao Zhang
Staff Engineer
Intel Corporation
Chandler, Arizona, U.S.A.
mike.zhang@cal.berkeley.edu

Local Arrangement Chair
Kristin Olafsdottir
Arizona State University
Tempe, Arizona, U.S.A.