

IAPR MVA2005

IAPR CONFERENCE ON MACHINE VISION APPLICATIONS

FINAL
CALL FOR PAPERS

May 16-18, 2005
Tsukuba Science City
JAPAN

Sponsored by:
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CALL FOR PAPERS

MVA2005: IAPR Conference on Machine Vision Applications

May 16-18, 2005

Tsukuba Science City, Japan

The Ninth IAPR Conference on Machine Vision Applications will be held at the Tsukuba International Congress Center, Tsukuba Science City, Japan (<http://www.epochal.or.jp/>), from May 16 through 18. The conference is co-sponsored by the MVA Conference Committee, IAPR TC-8, and National Institute of Advanced Industrial Science and Technology (AIST). The purpose of the conference is to bring together researchers and practitioners from both academia and industry, and to exchange their knowledge and stimulate each other through intensive discussions mainly on (but not limited to) the following research topics.

Main Topic: Machine Vision and its Applications

Algorithms

Feature Extraction, Range Data and 3D Analysis, Surface Reconstruction, Motion and/or Image Sequence Analysis, Neural Network Applications, Color Image Analysis, and related technologies

Architectures

Vision Chips, Vision Sensors with New Optical Systems, Architectures for 3D and/or Motion Processing, Image Processing Systems, Cooperative Distributed Systems, Software Environments for Image Processing and Analysis, and related technologies

Applications

- **Factory Automation:** Inspection, Diagnosis, Assembly
- **Intelligent Transport Systems:** Traffic Monitoring, Traffic Control, Driving Safety Assistance, Electric Toll Collection

- **Multimedia:** Image Retrieval, Drawing Processing, Multimedia Databases, Digital Archiving
- **Medical:** Medical Examination Assistance, Remote Medicine, 2D/3D Computer Tomography
- **Geographic Information Systems:** Map Processing, 3D Reconstruction from Photographs or Maps
- **Human Computer Interaction:** Face Recognition, Gesture Recognition, Multimodal Interfaces
- **Wearable Computing:** Wearable Image I/O, Personal Imaging, Augmented/Mixed Reality
- **Security:** Surveillance, Alarm Systems, Biometrics, Personal Identification
- **Robots:** Mobile Robots, Service Robots, Space Robots
- **Digital Home Automation:** Home Robots, Home Security (Monitoring)
- **Others:** Civil and Construction Engineering, Agriculture/Forestry / Fishery, Other Applications

Invited Talks

Prof. Giulio SANDINI (University of Genova, Italy) :

“Cognitive Development in a Humanoid Robot”

Prof. Alex WAIBEL (Carnegie Mellon University, USA) :

“CHIL - Computers in the Human Interaction Loop”

Prof. Nobuyuki OTSU (AIST / University of Tokyo, Japan) :

“Towards Flexible and Intelligent Vision Systems: From Thresholding to CHLAC”

The conference will consist of oral and poster presentations on the above topics. All presentations will be made in English. Authors should submit an extended summary up to four pages with at least one main figure. Any format is acceptable. The submission of the extended summary must be made electronically. Detailed instructions are available on the conference web site: <http://www.cvl.iis.u-tokyo.ac.jp/mva/>.

Important Dates

Extended Summary Deadline:

November 8, 2004.

Notification of Acceptance:

January 17, 2005.

Camera Ready Manuscripts Deadline:

March 14, 2005