



MVA2015

IAPR INTERNATIONAL CONFERENCE ON MACHINE VISION APPLICATIONS

FINAL CALL FOR PAPERS

May 18-22, 2015

National Museum of Emerging Science and Innovation, Tokyo, Japan

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Yasuyo KITA (AIST)

Hiroshi ISHIKAWA (Waseda University)

Program Co-Chairs

Takeshi MASUDA (AIST)

Björn STENGER (Toshiba Research Europe)

The Fourteenth IAPR International Conference on Machine Vision Applications will be held at the MIRAIKAN: National Museum of Emerging Science and Innovation in Tokyo, Japan from May 18 through 22, 2015. The conference is co-sponsored by the MVA Organization, IAPR TC-8 and AIST JAPAN. The aim of this conference is to bring together researchers and practitioners from both academia and industry, and to stimulate the exchange of knowledge through intensive discussions on the cutting-edge research topics listed below.



Night view of ODAIBA, near the conference site

Main Topic: Machine Vision and its Applications

Sensing

Vision Sensors, Sensors for 3D / Motion, Shape from X, Optical Phenomenon Sensing, Color / Multiband, Invisible Wavelength Imaging, Registration / Alignment, Calibration

Algorithms

Feature Extraction, Shape / Motion / Deformation Analysis, Change and Background, Tracking, Color / Multiband Analysis, Segmentation, Pattern Recognition, Object Recognition, Statistical Image Processing, Large-Scale Data Analysis, Image Processing System Architecture

Applications

· **Factory Automation and Robotics:** Visual Inspection, Diagnosis, Assembly, Mobile Robot, Digital Fabrication, Service Robot, Rescue Robot

- **Intelligent Transport Systems:** Traffic Monitoring, Autonomous Vehicles, Driving Safety Assistance
- **Surveillance:** Security Monitoring, Camera Network, Remote Sensing, Underwater
- **Human Computer Interaction:** Face / Gesture / Behavior / Gait, Gaze Analysis, Biometrics, Wearable Computing, First Person Vision
- **Biomedical:** Tomography, Endoscopy, Computer-Aided Diagnosis, Computer Assisted Surgery, Computational Anatomy, Bioinformatics, Nursing Care
- **Multimedia:** Database Archiving and Retrieval, Document, Culture and Heritage, VR / MR / AR, Entertainment
- **Life:** Agriculture / Forestry / Fishery, Civil / Construction Engineering, Commerce, Sports, Fashion, Home, Science

REGISTRATION POLICY: At least one of the authors of an accepted paper is required to register for the conference and must present the paper at the conference.

AWARDS: Presented papers will be considered for *Best Paper Award*, *Best Practical Paper Award*, and *Best Poster Award*.

PUBLICATION: Award-winning papers will be recommended to a special issue of an international journal. Presented papers are encouraged to be submitted to CVA journal with substantial extension as a regular paper with benefits of review process and publication fee subsidy.

Important Dates

Full Paper (4 pages) Submission Deadline:

December 12, 2014

Notification of Acceptance:

February 20, 2015

Camera-Ready Manuscripts Deadline:

March 20, 2015

Sponsors: MVA Organization, IAPR TC-8 and AIST JAPAN



IAPR Invited Talks : At the conference, the following IAPR Invited talks are scheduled:

Prof. J. K. (Jake) Aggarwal (The University of Texas at Austin)
“Recognition of Human Activities and Emotions”

Prof. Tomas Pajdla (Czech Technical University in Prague)
“3D Reconstruction from Photographs - Principles and Applications”

Prof. Johji Tajima (Nagoya City University)
“Color Image processing from the physical, psychological and biological viewpoints”

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