

Call for Participation

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MVA2017

IAPR INTERNATIONAL CONFERENCE ON MACHINE VISION APPLICATIONS

May 8-12, 2017

Toyoda Auditorium, Nagoya University, Nagoya, Japan

The Fifteenth IAPR International Conference on Machine Vision Applications will be held at Toyoda Auditorium, Nagoya University, Nagoya, Japan from May 8 through 12, 2017. The conference is co-sponsored by the MVA Organization, IAPR, and Graduate School of Information Science, Nagoya University. 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.



Nagoya Castle and Nagoya TV-Tower

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

IAPR Distinguished Lectures

“Dense & Direct Methods for 3D Reconstruction & Visual SLAM”
Prof. Daniel Cremers (Technische Universität München, Germany)

“Connecting the Dots: Embodied Visual Perception from First-person Cameras”
Prof. Jianbo Shi (University of Pennsylvania, USA)

“Image Recognition for Assistance in Intelligent Vehicles”
Prof. Hiroshi Murase (Nagoya University, Japan)

Schedule

- May 8, 2017: Main Conference (IAPR Invited Talk, Demo Session)
- May 9, 2017: Main Conference (IAPR Invited Talk, Demo Session, Young Researchers Meeting)
- May 10, 2017: Main Conference (IAPR Invited Talk)
- May 11, 2017: Tutorial Course
- May 12, 2017: Technical Exhibition

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Technical Co-sponsor: IEEE Robotics and Automation Society



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For more details, please visit <http://www.mva-org.jp/> or contact **MVA Organization** mva2017-sec@mva-org.jp