

# 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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**Sponsors:** MVA Organization, IAPR, and Graduate School of Information Science, Nagoya University



**Technical Co-sponsor:** IEEE Robotics and Automation Society



**In Cooperation with:** The Information Processing Society of Japan, The Institute of Electrical Engineers of Japan, The Institute of Electronics, Information and Communication Engineers, The Institute of Image Information and Television Engineers, The Institute of Systems, Control and Information Engineers, The Institute of Image Electronics Engineers of Japan, The Japanese Society for Artificial Intelligence, The Japanese Society for Non-destructive Inspection, The Japan Society for Precision Engineering, The Robotics Society of Japan, The Society of Academic Study on Sensing via Image Information, The Society of Automotive Engineers of Japan, The Society of Instrument and Control Engineers, and The Virtual Reality Society of Japan

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