



# MVA2017

IAPR INTERNATIONAL CONFERENCE ON MACHINE VISION APPLICATIONS

## CALL FOR PAPERS

May 8-12, 2017  
Nagoya University, Nagoya, Japan

The Fifteenth IAPR International Conference on Machine Vision Applications will be held at 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

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

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

**PUBLICATION:** All presented papers will be archived via *IEEE Xplore Digital Library*, except for selected papers that, at authors' option, may be published simultaneously with the conference in the *IPSA Transactions on Computer Vision and Applications* (Springer Open) as an express paper. Award-winning and other selected papers will be recommended for submission of an extended version to the *Special Section on Machine Vision and Applications* in the *IEICE Transactions on Information and Systems*, which will be published in May 2018.

### Important Dates

Full Paper (4 pages) Submission Deadline:	<b>December 5, 2016</b>
Notification of Acceptance:	<b>February 13, 2017</b>
Camera-Ready Manuscripts Deadline:	<b>March 13, 2017</b>
Main Conference:	<b>May 8-10, 2017</b>
Tutorial Course:	<b>May 11, 2017</b>
Technical Tour:	<b>May 12, 2017</b>

## ***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)**

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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)