

Where Industry and Academia Meet

Join us

AUTONOMOUS VEHICLES AND MACHINES (AVM) 2018



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CONFERENCE KEYNOTES

- **Future with Autonomous Vehicles: Lyft's approach to autonomous vehicles,** Luc Vincent, Lyft, Inc. (US)
- **Mapping and Localization: Scalable autonomous vehicle mapping and localization on the edge,** Sravan Puttagunta, Civil Maps (US)
- **Imaging Sensors and Technologies for Automotive Intelligence: Advances in automotive image sensors,** Boyd Fowler, OmniVision Technologies (US) and Johannes Solhusvik, OmniVision Technologies Europe Design Center (Norway)

SPECIAL EVENTS

- Autonomous Vehicles and Machines Open Discussions
- Best Paper Award

CONFERENCE SESSIONS

- Automotive Camera Image Quality (with Image Quality and System Performance Conf.)
- Simulation for Autonomous Vehicles and Machines (with Photography, Mobile, and Immersive Imaging Conf.)
- Sensor Fusion
- Mapping and Localization
- Robotic Vision Techniques for Navigation and Vision (with Intelligent Robotics and Industrial Applications using Computer Vision Conf.)
- System, Imaging, and Vision Architecture
- Imaging Sensors and Technologies for Automotive Intelligence (with Image Sensors and Imaging Systems and Photography, Mobile, and Immersive Imaging Confs.)

RELATED SHORT COURSES

- **EI03: Optimizing Computer Vision and Neural Network Applications using OpenVX**
Radhakrishna Giduthuri, Advanced Micro Devices, and Kari Pulli, Meta (US)
Sunday January 28, 8:00 am – 12:15 pm
- **EI09: Using Cognitive and Behavioral Sciences and the Arts in Artificial Intelligence Research and Design**
Mónica López-González, La Petite Noiseuse Productions (US)
Sunday January 28, 1:30 – 5:45 pm
- **EI10: Fundamentals of Deep Learning**
Allison Gray, NVIDIA, and Raymond Ptucha, RIT (US)
Sunday January 28, 1:30 – 5:45 pm
- **EI13: Deep Learning for Image and Video Processing**
Jonathon Shlens and George Toderici, Google, Inc. (US)
Monday January 29, 8:30 am – 12:45 pm
- **EI20: Introduction to CMOS Image Sensor Technology**
Arnaud Darmont, APHESA SPRL (Belgium)
Sunday January 28, 8:00 – 10:00 am
- **EI25: Computer Vision for Autonomous Driving**
Rony Ferzli, Intel Corp. (US); Sunday January 28, 1:30 – 3:30 pm

SYMPOSIUM PLENARY TALKS

Monday: Overview of Modern Machine Learning and Deep Neural Networks – Impact on Imaging and the Field of Computer Vision,
Greg Corrado, co-founder of Google Brain and Principal Scientist at Google

Tuesday: Fast, Automated 3D Modeling of Buildings and Other GPS Denied Environments, **Avideh Zahkor, Qualcomm Chair & Professor at UC Berkeley**

Wednesday: Ubiquitous, Consumer AR Systems to Supplant Smartphones, **Ronald T. Azuma, Intel Labs Researcher and Augmented Reality Pioneer**

SYMPOSIUM HIGHLIGHTS

- 18 conferences featuring 30 keynote talks by world reknown experts
- 3D Theatre
- Tours of Stanford University Labs
- Industry Exhibition
- Meet the Future: Showcase of Student and Young Professional Research
- Demonstration Session
- Poster Session
- Welcome Reception
- Women in Electronic Imaging Breakfast
- Human Vision in Electronic Imaging 30th Year Banquet

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