

CALL FOR PAPERS

AUTONOMOUS VEHICLES AND MACHINES 2020

CONFERENCE HOT TOPICS

Submissions that address autonomous vehicles aspects of:

- Data analytics and visualization
- Deep learning
- HDR imaging and displays
- Light field imaging
- Multi-sensor fusion
- Image quality for autonomous vehicles

AWARDS

- Best Paper Award
- Best Student Paper Award

CONFERENCE TOPICS ONGOING*

- Perception for autonomous vehicles
- Computer vision, machine vision, analytics
- Multi-modal sensing (Radar, Lidar, Imager, etc)
- Sensor fusion (Radar, Lidar, camera, ultrasound, GPS, thermal, TOF, etc.)
- Mapping and localization; Map for autonomous vehicles
- Deep convolution neural networks; Machine learning
- 3D reconstruction; Surround perception
- Image signal processors (ISP); Vision processors; DNN accelerators
- The evolution of ISP with new techniques such as CNN; Vision pipe
- Autonomous Driving and Sensor Simulation
- Validation of autonomous vehicles
- Validation of perception processors and algorithms
- Autonomous driving system architecture

* See conference webpage for detailed listing of subtopics.

ABOUT THE SYMPOSIUM

A week of interconnected imaging science events allowing you to expand your knowledge and network, including:

- Short courses taught by international experts
- 17 conferences—from Autonomous Vehicles to VR to Image Quality
- Opportunities for Students and Young Professionals
- 3 engaging Plenary Talks
- Joint sessions to increase knowledge across areas
- 3D Theater, Demonstration Session, Exhibition, Receptions, and more

CONFERENCE WEBSITE

A complete list of conference topics and details for submission is found on the conference webpage: bit.ly/EI2020_AVM

SUBMISSION OPTIONS

Presentation + proceedings paper: Submit a 1,000-word structured abstract (template provided). Accepted authors write 4-6 page paper for inclusion in the Open Access conference proceedings.

Presentation-only: Submit a 500-word short abstract. Accepted authors present work, but do not write a proceedings paper.

Journal-first paper: Submit a full, journal-ready paper, for Open Access publication in the selected journal (provides journal citation) and inclusion in the conference proceedings. Authors present their papers at EI. Select either the *Journal of Imaging Science and Technology* (JIST) or *Journal of Perceptual Imaging* (JPI).

SUBMISSION DEADLINES

Early decision: 15 July 2019

JIST- /JPI-first: 15 July 2019

Regular submission: 30 September 2019

FINAL PROCEEDINGS MANUSCRIPT DEADLINE

Typical length: 4-6 pages

- **FastTrack viewing** (available online at EI): 25 November 2019
- **Post-EI viewing:** 10 February 2020

To register or learn more, visit
www.ElectronicImaging.org

