

CALL FOR PAPERS

STEREOSCOPIC DISPLAYS AND APPLICATIONS XXXI

CONFERENCE HOT TOPICS

Submissions that address stereoscopic imaging aspects in the following:

- Astronomy/astrophysics
- Visualization facilities
- Data analytics and visualization
- Stereoscopic image processing
- Light field imaging
- Stereoscopic human factors
- Stereoscopic image quality

SPECIAL EVENT

- SD&A 3D Theater

AWARDS

- Best film (animation)
- Best film (live action)
- Best use of stereoscopy in a presentation

CONFERENCE TOPICS ONGOING*

- **Applications:** games, scientific, medical, television, entertainment, training, CAD, molecular modeling, teleoperation, telepresence, VR, AR
- **Advances in true 3D display technologies:** autostereoscopic, high-density multi-view, volumetric, light-field, spatially/temporally-multiplexed, multi-projector, mobile 3D, electro-holography, etc.
- **Stereoscopic systems design:** performance, crosstalk, brightness, viewing freedom, VR/AR/MR head-mounted displays, teleoperation, telerobotics, telesurgery, mobile devices, game systems, broadcast, interaction technologies
- **Digital cinema:** production, post-production, presentation, and case studies
- **3D image quality, image alignment, and depth range analysis**
- **Stereoscopic and multi-view computer graphics, including gaming**
- **Image synthesis:** 2D to 3D, depth map generation, multi-viewpoint generation
- **3D image acquisition and generation techniques:** single- and multi-lens camera systems, light-field cameras, motion parallax, volume projection, graphical construction, generation of novel viewpoints, light-field rendering
- **Human factors and user-interface issues:** task performance comparisons, ortho-stereo, hyper-stereo, geometry of 3D perceptual space

* 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 submission requirements is found on the conference webpage: bit.ly/EI2020_SDA

SUBMISSION OPTIONS

Presentation + proceedings paper: Submit a 500-word structured abstract with optional figures using the symposium template. 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

