CALL FOR PAPERS

STEREOSCOPIC DISPLAYS AND APPLICATIONS XXX

Submissions that address the Symposium-wide themes, joint sessions, and/or conference topics are welcome.

SYMPOSIUM-WIDE THEMES FOR EI 2019
- 3D Imaging
- Autonomous vehicles
- Augmented, virtual, and mixed reality (AR/VR/MR) imaging

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

CONFERENCE TOPICS*
- 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, 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

SPECIAL EVENT
- SD&A 3D Theater

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

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
- 18 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/EI2019_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: 30 June 2018
JIST-/JPI-first: 30 June 2018
Regular submission: 8 September 2018

FINAL PROCEEDINGS MANUSCRIPT DEADLINE
Typical length: 4-6 pages

- FastTrack viewing (available online at EI): 16 November 2018
- Post-EI viewing: February 2019

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

Information confirmed as of 3/30/18