Electronic Imaging 2018

IS&T International Symposium on
SCIENCE AND TECHNOLOGY

Electronic Imaging 2018 Theme Days Explore Machine Learning, 3D Imaging, and Augmented & Virtual Reality

Plenary talks from leading researchers at Google, UC Berkeley, and Intel anchor daily themes at the Electronic Imaging 2018 Symposium, held in Silicon Valley, January 28–February 2, 2018, and sponsored by the Society for Imaging Science and Technology. The Symposium features electronic imaging research at the forefront of many of today's cutting-edge technologies, from virtual reality and autonomous vehicles to biotechnology and intelligent robots.

JANUARY 4, 2018 SPRINGFIELD, VA (PRWEB)

Organizers of the Electronic Imaging 2018 Symposium (EI 2018)—the world's leading global electronic imaging industry and academia conference—have created theme days for the Symposium to allow attendees to dig deeper into the topics of Machine Learning, 3D Imaging, and Augmented and Virtual Reality.

"The plenary talks anchor and help shape the daily Symposium themes featuring keynote talks, research presentations, and short courses organized around those specific topics," explains EI 2018 Symposium Co-chair Andrew Woods (Curtain University). The Symposium includes 18 individual conferences and one focus session covering imaging topics ranging from augmented and virtual reality displays and processing to human vision, color, perception, and cognition.

Theme day highlights include:

Machine Learning Monday

- Plenary: Greg Corrado, co-founder of Google Brain and Principal Scientist at **Google**, provides an overview of modern machine learning and deep neural networks
- Short Courses: Deep Learning for Image and Video Processing and Introduction to TensorFlow
- Conferences: Computational Imaging XVI Conference; Intelligent Robotics and Industrial Applications using Computer Vision 2018 Conference; Visual Information Processing and Communication IX Conference; and Autonomous Vehicles and Machines 2018

3D Imaging Tuesday

- Plenary: Avideh Zahkor, Qualcomm Chair & Professor at **U.C. Berkeley** and entrepreneur, discusses fast, automated 3D modeling of buildings and other GPS denied environments

- Short Course: 3D Reconstruction Imaging
- Conferences: Image Processing: Algorithms and Systems XVI Conference; Intelligent Robotics and Industrial Applications using Computer Vision 2018 Conference; Stereoscopic Displays and Applications XXIX & The Engineering Reality of Virtual Reality 2018 JOINT Conference Sessions; Photography, Mobile, and Immersive Imaging 2018 Conference; Autonomous Vehicles and Machines 2018 Conference

AR/VR Wednesday

- Plenary: Ronald T. Azuma, **Intel** Labs researcher and Augmented Reality pioneer, shares a vision for achieving ubiquitous AR
- Short Course: Build Your Own VR Display: An Introduction to VR Display Systems for Hobbyists and Educators
- Conferences: Visualization and Data Analysis 2018 Conference; Engineering Reality of Virtual Reality 2018; Photography, Mobile, and Immersive Imaging 2018 and Stereoscopic Displays and Applications XXIX - Immersive Imaging JOINT Conference Sessions; Other hot topics for EI 2018 include imaging for automotive and other robotic vehicles, computational manufacturing, deep learning, and imaging and astronomy. Special events include Meet the Future: A Showcase of Student and Young Professional Research; more than 30 conference keynotes, including one by Tim Jenison of the "Tim's Vermeer" documentary; 29 classes, including a how to make your own VR headset; and tours of Stanford University labs.

The conference program is augmented by technical courses taught by experts from academia and industry. The Electronic Imaging 2018 Demonstration Session, held Tuesday, January 30, showcases the largest and most diverse collection of stereoscopic and electronic imaging research and products in one location.

About Electronic Imaging: For nearly 30 years, the Electronic Imaging Symposium has been serving those in the broad community—from academia and industry—who work on imaging science and digital technologies. The scope of the Symposium includes the entire imaging science ecosystem, from capture (sensors, cameras) through image processing (image quality, color, and appearance) to how humans and machines see and interpret traditional and multi-dimensional images and videos. For more information, follow @ElectroImaging on Twitter.

About IS&T: The Society for Imaging Science and Technology (IS&T) is an international professional non-profit dedicated to keeping members and other imaging professionals apprised of the latest developments in the field through conferences, educational programs, publications, and its website. IS&T programs encompass all aspects of the imaging workflow, which moves from capture (sensors, cameras) through image processing (image quality, color, and materialization) to hard and soft copy

output (still, motion, print, displays, image permanence), and include aspects related to human vision and machine vision, such as object recognition, image quality, and color. The Society also focuses on a wide range of image-related applications, including security, virtual reality, mobile imaging, and data analysis. Follow IS&T on Twitter: @ImagingOrg