Join us

HUMAN VISION AND ELECTRONIC IMAGING (HVEI) 2018
Celebrating 30 years of HVEI

QUALCOMM

Conference Sponsor

CONFERENCE KEYNOTES
- **The field of view, the field of resolution, and the field of contrast sensitivity**, Andrew Watson, Apple (US)
- **Perceptual display: apparent enhancement of scene detail and depth (Invited)**, Karol Myszkowski, MPI Informatik (Germany)
- **Lighting perceptual intelligence**, Sylvia Pont, Delft University of Technology (Netherlands)
- **Applying insights from visual perception and cognition to the development of more effective virtual reality experiences**, Victoria Interrante, Univ. of Minnesota (US)
- **Capturing reality**, Tim Jenison, NewTek, Inc. (US)

SPECIAL EVENTS
- 30th Anniversary Kickoff, Closing, and Daily Discussions with Wine
- HVEI Banquet and Demo Session
- Panel: Visual Representation in Art, Imaging and Visualization with Tim Jenison (see keynote above) of **Tim's Vermeer** fame
- Museum Visit
- Interactive (Poster) Papers

CONFERENCE SESSIONS
- Human Vision Approaches to Image Quality for Images, Video and Stereo Applications
- Human Behavior in Real-World Environments
- Fundamental Issues in Visual Detection
- Perceptual Issues in High Dynamic Range Imaging
- Mobile Devices and Perception
- Perceptual Interactions in Material, Color and Illumination
- Perceptual Approaches to Image Quality
- Perceptual Image Quality for Virtual and Augmented Reality Systems
- Physiological Measurements for Vision and Image Quality Research
- The Neuroscience and Experience of Multisensory Integration
- Art and Perception: Representation, Experience, and Understanding

RELATED SHORT COURSES
- **EI05: Perception and Cognition for Imaging**
  Bernice Rogowitz, Visual Perspectives (US), Sun 28 Jan 8:00 am – 12:15 pm
- **EI11: Perceptual Metrics for Image and Video Quality in a Broader Context: From Perceptual Transparency to Structural Equivalence**
  Sheila Hemami, Draper, and Thrasyvoulos Pappas, Northwestern Univ. (US) Sunday 28 January 1:30 – 5:45 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 28 January 1:30 – 5:45 pm
- **EI27: High-Dynamic-Range Theory and Technology**
  John McCann, McCann Imaging (US), and Alessandro Rizzi, Università degli Studi di Milano (Italy), Sunday 28 January 3:45 – 5:45 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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