

*Where Industry and Academia Meet*

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# MOBILE DEVICES AND MULTIMEDIA: ENABLING TECHNOLOGIES, ALGORITHMS, AND APPLICATIONS 2018

Conference days: 29 and 31 January

Conference Chairs: **David Akopian**, The University of Texas at San Antonio (US), and **Reiner Creutzburg**, Technische Hochschule Brandenburg (Germany)

## CONFERENCE SESSIONS

- Mobile Forensics
- Mobile Health and Services
- Cameras, Sensors, Supporting Methods
- Interactive (Poster) Papers

## RELATED SHORT COURSES

- **EI07 Digital Camera Image Quality Tuning**  
*Luke Cui, Amazon (US)*  
Sunday 28 January 8:00 am – 12:15 pm
- **EI10 Fundamentals of Deep Learning**  
*Allison Gray, NVIDIA, and Raymond Ptucha, RIT (US)*  
Sunday 28 January 1:30 – 5:45 pm
- **EI12 Optics and Hardware Calibration of Compact Camera Modules**  
*Uwe Artmann, Image Engineering (Germany), and Kevin Matherson, Microsoft Corp. (US)*  
Sunday 28 January 1:30 – 5:45 pm
- **EI13 Deep Learning for Image and Video Processing**  
*Jonathon Shlens and George Toderici, Google, Inc. (US)*  
Monday 29 January 8:30 am – 12:45 pm
- **EI17 Build Your Own VR Display: An Introduction to VR Display Systems for Hobbyists and Educators**  
*Hayato Ikoma, Robert Konrad, and Nitish Padmanaban, Stanford Univ., and Keenan Molner, Playground Global (US)*  
Wednesday 31 January 8:30 am – 12:45 pm
- **EI19 Color and Calibration in Mobile Imaging Devices**  
*Uwe Artmann, Image Engineering (Germany), and Kevin Matherson, Microsoft Corp. (US)*  
Sunday January 28, 8:00 – 10:00 am
- **EI21 Resolution in Imaging Devices: Concepts and Measurements**  
*Uwe Artmann, Image Engineering (Germany), and Kevin Matherson, Microsoft Corp. (US)*  
Sunday 28 January 10:15 am – 12:15 pm
- **EI23 Practical Insights into Implementing a CINEMATIC VR Capture System**  
*Nitin Sampat and J. A. Stephen Viggiano, RIT (US)*  
Sunday 28 January 1:30 – 3:30 pm
- **EI28 Camera Noise Sources and its Characterization Using International Standards**  
*Uwe Artmann, Image Engineering (Germany), and Kevin Matherson, Microsoft Corp. (US), Monday 29 January 8:30 – 10:30 am*
- **EI29 Introduction to TensorFlow**  
*Magnus Hyttsten, Google, Inc. (US), Monday 29 January 3:15 – 5:15 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 30<sup>th</sup> Year Banquet

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