IS&T International Symposium on

Electronic Imaging 2018
SCIENCE AND TECHNOLOGY

28 January – 2 February 2018
Hyatt San Francisco Airport, CA

Where Industry and Academia Meet

Join us

EI29: INTRODUCTION TO TENSORFLOW

Instructor: Magnus Hyttsten, Google, Inc. (US) | **Monday January 29**, 3:15 – 5:15 PM | **Course Level:** Introductory

Fee: Member: $175 / Non-member: $200 / Student: $65 (*prices for all increase by $50 after January 8, 2018)

TensorFlow is an open-source software library for machine learning. It is used to define, train, and test machine learning models, which can later be served on a variety of platforms - servers to mobile devices. In this workshop, you get an introduction using TensorFlow. We will go through the basics, and by the end of the course, you will know how to build deep neural network models on your own.

Prerequisites: Bring your laptop installed with TensorFlow by following instructions on tensorflow.org. Alternatively, we can provide Google Cloud instances of TensorFlow that you can use (no installation required). If you have a Google Cloud account, we can also share a TensorFlow cloud image that you can use.

Benefits:
- Become familiar with TensorFlow programming environment.
- Learn how to build models related to regression and classification.
- Understand what deep neural networks are and how to build them.
- Create a deep neural network that is able to classify digits based on raw pixel input.

Intended Audience: Scientists or developers that want to get started with TensorFlow.

Instructor: Magnus Hyttsten is a senior staff developer advocate for TensorFlow at Google. He focuses on all things TensorFlow - from making sure that the developer community is happy to help developing the product. He has been speaking at many major events including Google I/O, AnDevCon, Machine Learning meetups, etc. Right now, he is fanatically and joyfully focusing on TensorFlow for mobile as well as creating reinforcement learning models.

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

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

IS&T
imaging.org