



# 2016 Summer School on Neuromorphic Systems for Machine Learning

## GENERAL CHAIR

- Asst. Prof. Arindam Basu  
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## ADVISORY COMMITTEE MEMBERS

- Prof. Shoushun Chen  
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- Dr. Garrick Orchard  
Dept. of Electrical and Computer Engineering,  
National University of Singapore

## LOCAL ARRANGEMENTS

- Subhrajit Roy
- Laxmi R Iyer  
Centre for Bio Devices and Signal Analysis (VALENS)  
Nanyang Technological University  
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IEEE CAS Distinguished  
Lecturer Program

Machine learning allows machines to solve specific tasks without being explicitly programmed. In the recent past, it has seen a renaissance with successes of deep learning in image and speech recognition, natural language processing etc. However, most such success stories use power hungry supercomputer or GPU based implementations and do not respect real-time processing and learning constraints that are faced by biological organisms. Neuromorphic engineering, touted as *one of the top 10 emerging technologies by the World Economic Forum 2015*, aims to fill this gap by mimicking the structure and operation of the brain. It places emphasis on physical embodiment and aims to develop low-power silicon realizations of machine intelligence.

The main goal of this summer school is to provide a comprehensive review of current trends of research in the field of neuromorphic systems used for machine learning tasks. The participants are expected to acquire knowledge of various learning frameworks and computational models for neuromorphic systems. Target audience includes practitioners and scientists from the industry or research laboratories as well as post-graduate students from academic institutes.

## PROGRAM INCLUDES

- Talks and Tutorials
- Panel Discussions
- Live Demo Sessions
- Poster Presentations

## REGISTRATION:

[Click here for registration](#)

Deadline for registration: Aug 10, 2016.

Registration fees: 150 SGD (student), 300 SGD (non-student)

## INVITED SPEAKERS:



**André van Schaik**  
Research Professor  
The MARCS Institute, Australia



**Shih-Chii Liu**  
Co-lead of the Sensors group  
Institute of Neuroinformatics,  
University of Zurich and ETH Zurich



**Huajin Tang**  
Professor  
Sichuan University, China



**Arindam Basu**  
Assistant Professor  
Nanyang Technological University



**Garrick Orchard**  
Temasek Research Fellow  
National University of Singapore



**Chen Shoushun**  
Assistant Professor  
Nanyang Technological University

**WORKSHOP DATES**  
September 28, 29, 30

**AFFILIATION:**

