Location: AllenX Auditorium, Stanford University

Day 1: October, 12th, 2017

7:30 - 9:00 : Breakfast

9:00 – 9:15: Introduction

9:15 – 10:00: Keynote 1: EJ Chichilnisky, *Stanford*

10-10:30 Break

10:15-11:45 Session 1: (Moderator: E. Beigné, CEA LETI)

10:30 - 11:00: Blaise Yvert, *INSERM, Univ. Grenoble Alpes (confirmed)* "When artificial and real neural networks meet up: implications for rehabilitation"

11:00-11:30 : Bruno Olshausen, *UC Berkeley*, "Beyond inspiration: Three lessons from biology on building intelligent machines"

11:30-12:00 : Francois Danneville, *IEMN Lille,* "Spiking Neural Circuits and Systems"

12:00-14:00 **Lunch + student poster session (Moderator: David Coriat, CEA LETI)**

14:00 - 15:00 : Keynote 2, Krishna Shenoy, *Stanford*

15:00 - 15:30 : break

15:30 - 17:00 : Session 2: (Moderator : Alexandre Valentian, CEA LETI)

15:30 - 16:00 : Kwabena Boahen, *Stanford*, "The Neuromorphics Project"

16:00 - 16:30: Justin Gardner, *Stanford,* "Priors and heuristics in human visual perception"

16:30 - 17:00: Philip Wong, *Stanford,* "The N3XT Technology for Brain-Inspired Computing"

19:00 : Dinner

Day 2: October, 13th, 2017

7:30 - 9:00 : Breakfast

9:00 - 10:00 : Keynote 3, Amélie Cordier, *Hoomano,* "Developmental Artificial Intelligence, why sequential regularities are so important for us?"

10:00 - 10:30 : Break

10:30 - 12:00 Session 3: (Moderator: Boris Murmann, Stanford)

10:30 - 11:00 : Song Han, *Stanford*, "Efficient Methods and Hardware for Deep Learning"

11:00 - 11:30 : Jan Rabaey, *UC Berkeley*

11:30 - 12:00 : Chris Rowen, *Cognite Ventures and Stanford*, "Vision and the Deep Learning Explosion"

12:00-13:30 Lunch + student's poster session (Moderator: David Coriat, CEA LETI)

13:30 - 14:30 : Session 4 (Moderator: TBA)

13:30 - 14:00 : Matteo Causo, *CEA-LETI/Stanford,* "3D neuro-inspired cortical column"

14:00 - 14:30 : Elisa Vianello, *CEA-LETI,* "Resistive memories for spike-based neuromorphic circuits"

14:30-15:00 : Break

15:00 - 16:00 : Closing Panel (Moderator: TBA)

Amélie Cordier (Hoomano), Barbara De Salvo (CEA LETI), Paul Nuyujukian (Stanford), Jan Rabaey (UC Berkeley)