First International Workshop on Adaptive Shot Learning for Gesture Understanding and Production

ASL4GUP **2017**

https://engineering.purdue.edu/ASL4GUP

Held in conjunction with IEEE FG 2017, in May 30, 2017, Washington DC, USA

In the aim of natural interaction with machines, a framework must be developed to include the adaptability humans portray to understand gestures from context, from a single observation or from multiple observations. This is also referred as adaptive shot learning – the ability to adapt the mechanism of recognition to a barely seen gesture, well-known or entirely unknown. Of particular interest to the community are zero-shot and one-shot learning, given that most work has been done in the N-shot learning scenario. The workshop aims to encourage works that focus on the way in which humans produce gestures – the kinematic and biomechanical characteristics, and the cognitive process involved when perceiving, remembering and replicating them. We invite submission of papers presenting original research in the aforementioned theme.

Topics of interest (but not limited to):
- One and zero shot recognition;
- Gesture production from context or single observation;
- EEG based gesture recognition
- Context modeling from gesture languages;
- Holistic approaches to gesture modeling;
- Human-like gesture production and recognition
- Gesture based robotic control and interfaces

Important dates:

Submission Deadline: Feb 1th, 2017
Notification of Acceptance: March 1th, 2017
Camera Ready: March 8th, 2017
Workshop: May 30th, 2017

Submission requirements
Submissions may be up to 8 pages, in accordance with the IEEE FG conference format. Papers longer than six pages will be subject to a page fee (100 USD per page) for the extra pages (two max). We welcome regular, position and applications papers. Submission through: https://easychair.org/conferences/?conf=asl4gup2017
Worskhop papers are included in the proceedings. Papers will be also invited for a full submission to a special issue in a leading journal in the field of machine learning and cognition.

Organizing committee: Juan P Wachs (Purdue University, USA); Richard Voyles (Purdue University, USA); Susan Fussell (Cornell University); Isabelle Guyon (Université Paris-Saclay, France)**;** Sergio Escalera (Computer Vision Center and University of Barcelona, Spain).