

THUAI-IRCN Workshop

Between artificial and human intelligence

To bridge the gap between artificial and human intelligence, we need to understand the gap. This understanding must be explicit enough that an actual research plan can be formulated. To achieve this, researchers from Tsinghua University Institute for Artificial Intelligence (THUAI) and IRCN will present their state-of-the-art work, and share their visions on the major problems of current AI, the missing elements for a better AI, and aspects of human or animal intelligence that can be explored to understand the gap.

Date: Saturday, December 21, 2019

Venue: IRCN Seminar room, 13F Faculty of Medicine Experimental Research Building

Program Schedule:

- 9:00~9:10 Opening remarks **Takao Hensch**
- 9:10~9:20 Introduction to THUAI **Xiaoyan Zhu**
- Short talk session **THUAI:**
- 9:20~9:40 Deep Learning-based Chinese Language Computation at Tsinghua University: Progress and Challenges **Maosong Sun**
- 9:40~10:00 Machine Learning in Uncertain and Adversarial Environments **Jun Zhu**
- 10:00~10:20 Neuromorphic Platform and A Roadmap Towards AGI **Sen Song**
- 10:20~10:50 Coffee break
- Short talk session **IRCN:**
- 10:50~11:10 A Reinforcement Learning Model with Distinct Functions of D1 and D2 Striatal Projection Neurons **Shin Ishii**
- 11:10~11:30 Predictive-coding signals in the primate brain **Zenas Chao**
- 11:30~12:00 Discussion session Host: **Zenas Chao**
- Short talk session **THUAI:**
- 14:30~14:50 Machine Learning in The Studies of Cell Differentiation, cell-cell Interactions, and Disease Diagnosis **Ting Chen**
- 14:50~15:10 A Hierarchical Sparse Coding Model for the Auditory System **Xiaolin Hu**
- 15:10~15:30 Rethinking the Role of Artificial Neural Networks (ANNs) and Spiking Neural Networks (SNNs) **Guoqi Li**
- 15:30~16:00 Coffee break
- Short talk session **IRCN:**
- 16:00~16:20 Machine Learning from Weakly-Supervised and Noisy Data **Masashi Sugiyama**
- 16:20~16:40 Auditory Information Processing in the Songbird Brain: Accuracy and Tolerance **Yoko Yazaki Sugiyama**
- 16:40~17:10 Discussion session Host: **Mingbo Cai**
- 17:10~17:20 Closing remarks

IRCN (International Research Center for Neurointelligence)

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Register now!
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