



ML: Deep Learning I

Session: Feb. 15, 2016, 2-3:30 pm

Chair: Xiaobai Liu, San Diego State University (SDSU)

Oral Presentations

- 920: **On the Depth of Deep Neural Networks: A Theoretical View.** Shizhao Sun, Wei Chen, Liwei Wang, Xiaoguang Liu, Tie-Yan Liu
- 1229: **How Important Is Weight Symmetry in Backpropagation?** Qianli Liao, Joel Z. Leibo, Tomaso Poggio
- 1769: **Deep Learning with S-shaped Rectified Linear Activation Units.** Xiaojie Jin, Chunyan Xu, Jiashi Feng, Yunchao Wei, Junjun Xiong, Shuicheng Yan
- 1142: **Learning Step Size Controllers for Robust Neural Network Training.** Christian Daniel, Jonathan Taylor, Sebastian Nowozin

Poster Spotlight Talks

- 1355: **Convolutional Neural Networks over Tree Structures for Programming Language Processing.** Lili Mou, Ge Li, Lu Zhang, Tao Wang, Zhi Jin
- 186: **Learning Deep ℓ_0 Encoders.** Zhangyang Wang, Qing Ling, Thomas Huang
- 1488: **Learning FRAME Models Using CNN Filters.** Yang Lu, Song-Chun Zhu, Ying Nian Wu
- 757: **Conservativeness of untied auto-encoders.** Jiwoong Im, Mohamed Ishmael Belghazi, Roland Memisevic
- 1070: **Adaptive Normalized Risk-Averting Training for Deep Neural Networks.** Zhiguang Wang, Tim Oates, James Lo
- 2256: **High-Order Stochastic Gradient Thermostats for Bayesian Learning of Deep Models.** Chunyuan Li, Changyou Chen, Kai Fan, Lawrence Carin
- 281: **Deep Hashing Network for Efficient Similarity Retrieval.** Han Zhu, Mingsheng Long, Jianmin Wang, Yue Cao