

16-899: Reference list for Wednesday, Feb 3rd

You can find all of the references we discussed (and more) on Sergey Levine's web page: <http://www.eecs.berkeley.edu/~svlevine/>

Specifically, we talked about:

Chelsea Finn, Xin Yu Tan, Yan Duan, Trevor Darrell, Sergey Levine, Pieter Abbeel. *Deep Spatial Autoencoders for Visuomotor Learning*. ICRA 2016. [[PDF](#)][[Video](#)][[arXiv](#)]

Vikash Kumar, Emanuel Todorov, Sergey Levine. *Optimal Control with Learned Local Models: Application to Dexterous Manipulation*. ICRA 2016. [[PDF](#)][[Video](#)]

Sergey Levine, Nolan Wagener, Pieter Abbeel. *Learning Contact-Rich Manipulation Skills with Guided Policy Search*. ICRA 2015. [[PDF](#)][[Video](#)]

Sergey Levine, Pieter Abbeel. *Learning Neural Network Policies with Guided Policy Search under Unknown Dynamics*. NIPS 2014. [[PDF](#)][[Video](#)]

That neural network software I mentioned is NEAT: <http://nn.cs.utexas.edu/?neat>

It was used to interesting effect in this paper:

Tan J, Gu Y, Liu CK, Turk G. Learning bicycle stunts. *ACM Transactions on Graphics (TOG)*. 2014 Jul 27;33(4):50.
<http://www.cc.gatech.edu/~jtan34/project/learningBicycleStunts.html>