

16-848 Spring 2020: Reference List for April 20th

We looked at two papers on design optimization today. Links to the videos are provided below the pdf links.

Hazard, Christopher, Nancy Pollard, and Stelian Coros. "Automated Design of Robotic Hands for In-Hand Manipulation Tasks." *International Journal of Humanoid Robotics* 17(1), February 2020.

http://graphics.cs.cmu.edu/nsp/papers/Automated_Design_Robot_Hands_IJHR2020.pdf

<https://img1.wsimg.com/blobby/go/eb53fe9d-a68a-4f81-9a24-cf4d1b95e96c/downloads/ijhr%20submission%20video-compressed.mp4?ver=1575344094284>

Meixner, Andre, Christopher Hazard, and Nancy Pollard. "Automated Design of Simple and Robust Manipulators for Dexterous In-Hand Manipulation Tasks using Evolutionary Strategies." In *2019 IEEE-RAS 19th International Conference on Humanoid Robots (Humanoids)*, pp. 281-288. IEEE, 2019.

<http://graphics.cs.cmu.edu/nsp/papers/MeixnerHumanoids2019.pdf>

https://img1.wsimg.com/blobby/go/eb53fe9d-a68a-4f81-9a24-cf4d1b95e96c/downloads/ICHR19_video.mp4?ver=1575344094330