

16-848 Spring 2020: Reference List for April 22nd

We looked at the following papers today:

Chen, Tianjian, Long Wang, Maximilian Haas-Heger, and Matei Ciocarlie. "Underactuation Design for Tendon-Driven Hands via Optimization of Mechanically Realizable Manifolds in Posture and Torque Spaces." *IEEE Transactions on Robotics* (2020). <https://roam.me.columbia.edu/hand-design>

Deimel, Raphael, Patrick Irmisch, Vincent Wall, and Oliver Brock. "Automated co-design of soft hand morphology and control strategy for grasping." In *2017 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, pp. 1213-1218. IEEE, 2017.

<https://ieeexplore.ieee.org/abstract/document/8202294>

<https://www.youtube.com/watch?v=wvUGK0U2oQU&list=PLL2-UDGHPj0gT2F4O4Pe0kS05Qi3A49jY&index=20&t=0s>

Teeple, Clark B., Theodore N. Koutros, Moritz A. Graule, and Robert J. Wood. "Multi-segment soft robotic fingers enable robust precision grasping." *The International Journal of Robotics Research* (2020): 0278364920910465.

<https://journals.sagepub.com/doi/full/10.1177/0278364920910465>

Kriegman, Sam, Douglas Blackiston, Michael Levin, and Josh Bongard. "A scalable pipeline for designing reconfigurable organisms." *Proceedings of the National Academy of Sciences* (2020). <https://www.pnas.org/content/117/4/1853>