

## 16-848 Spring 2018: Reference List for April 9

Today we used the following two papers to look at the basic mathematics of the arm and grasp stiffness computation for tendon driven skeletal systems such as the human arm and hand. Both are recent papers out of Antonio Bicchi's group at the University of Pisa: <http://www.centropiaggio.unipi.it/~bicchi>

Ajoudani, Arash, Cheng Fang, Nikos Tsagarakis, and Antonio Bicchi. "Reduced-complexity representation of the human arm active endpoint stiffness for supervisory control of remote manipulation." *The International Journal of Robotics Research* (2017): 0278364917744035.  
<http://journals.sagepub.com/doi/abs/10.1177/0278364917744035>

Garate, Virginia Ruiz, Nikos Tsagarakis, Antonio Biechi, and Arash Ajoudani. "On the common-mode and configuration-dependent stiffness control of multiple degrees of freedom hands." In *Humanoid Robotics (Humanoids), 2017 IEEE-RAS 17th International Conference on*, pp. 113-120. IEEE, 2017.  
<https://ieeexplore.ieee.org/abstract/document/8239545/>