

16-848 Reference List for April 24, 2024

We looked at four papers today:

On datasets →

Walke, Homer Rich, Kevin Black, Tony Z. Zhao, Quan Vuong, Chongyi Zheng, Philippe Hansen-Estruch, Andre Wang He et al. "Bridgedata v2: A dataset for robot learning at scale." In *Conference on Robot Learning*, pp. 1723-1736. PMLR, 2023.

<https://rail-berkeley.github.io/bridgedata/>

On reinforcement learning for manipulation →

Chen, Tao, Megha Tippur, Siyang Wu, Vikash Kumar, Edward Adelson, and Pulkit Agrawal. "Visual dexterity: In-hand reorientation of novel and complex object shapes." *Science Robotics* 8, no. 84 (2023): eadc9244.

<https://www.youtube.com/watch?v=5HoLBaAhK-s&t=215s>

On manipulation in graphics, without and with a physics representation →

Chen, Sirui, Albert Wu, and C. Karen Liu. "Synthesizing Dexterous Nonprehensile Pregrasp for Ungraspable Objects." In *ACM SIGGRAPH 2023 Conference Proceedings*, pp. 1-10. 2023.

<https://dl.acm.org/doi/abs/10.1145/3588432.3591528>

Braun, Jona, Sammy Christen, Muhammed Kocabas, Emre Aksan, and Otmar Hilliges. "Physically plausible full-body hand-object interaction synthesis." *arXiv preprint arXiv:2309.07907* (2023).

<https://arxiv.org/pdf/2309.07907.pdf>

<https://www.youtube.com/watch?v=um7p3WpD8zI>