QT-Opt: Scalable Deep Reinforcement Learning for Vision-Based Robotic Manipulation

arXiv:1806.10293, Kalashnikov et al, 2018.

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Motivation

2 Goal

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- Combining two techniques
 - Able to learn policy continuously from their experience
 - No need for manual engineering, use data they collects



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- **Noise** of sensors
 - ⇒ Still hard to handle though we have sufficiently large training set
 - ⇒ Collecting those training set is expensive (real experiments)
 - ⇒ Lots of researchers focused on reusing pervious experiences



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 - hitting a ball
 - opening door
 - throwing objects
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 - ⇒ Where this researches start!!

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