Discussion Session w. 38

- Topic for discussion session w. 38:
  Adaptive robot control

Literature:

- Craig, J. J., Hsu, P., & Sastry, S. S.: "Adaptive Control of Mechanical Manipulators". *The International Journal of Robotics Research*, Vol. 6, No. 2, 1987.
- Slotine, J.-J. E., & Li, W.: "On the Adaptive Control of Robot Manipulators". *The International Journal of Robotics Research*, Vol. 6, No. 3, 1987.
- Ortega, M., & Spong, M. W.: "Adaptive Motion Control of Rigid Robots: a Tutorial". *Automatica*, Vol. 25, No. 6, 1989.
- Johansson, R.: "Adaptive Control of Robot Manipulator Motion". *IEEE Transactions on Robotics and Automation*, Vol. 6, No. 4, 1990.

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Simulation task:

- ▶ Implement an adaptive robot-control strategy of your choice and evaluate it in simulations using a model of a serial-kinematic robot with two links. In particular, evaluate the control performance for different parameter choices and the convergence properties of the algorithm.