

Assignments for October 11

- ▶ Read Chapters 13–14 in LaValle, S. M., *Planning Algorithms*, Cambridge University Press, Cambridge, UK, 2006. The chapters discuss topics in motion planning for systems with differential models and constraints.
- ▶ Karaman, S. and Frazzoli, E.: "Sampling-based algorithms for optimal motion planning". *Int. J. Robotics Research* 30:7 (2011), pp. 846–894.
- ▶ Berntorp, K. and Di Cairano, S., "Particle filtering for online motion planning with task specifications". *American Control Conf. (ACC)*, Boston, MA, 2016, pp. 2123–2128.
- ▶ Danielson, C., Weiss, A., Berntorp, K., and Di Cairano, S., "Path planning using positive invariant sets". *Conf. Decision and Control (CDC)*, Las Vegas, NV, 2016, pp. 5986–5991.

Assignments for October 11 (cont'd)

- ▶ Berntorp, K., Weiss, A., Danielson, C., Kolmanovsky, I. V., and Di Cairano, S.: "Automated Driving: Safe Motion Planning Using Positively Invariant Sets", 2017. Available at: /home/robot/courses/motion_planning/
- ▶ Lecture by Karl Berntorp.