

AMR 2019/20: Final Project Assignments

(supervisor name in parentheses)

FP1. External force observers for the NAO (Smaldone)

Giada Simionato, Emilian Postolache, Riccardo Ratini

FP2. Push recovery for humanoid robots (Smaldone)

Isabella Claire Adriani, Christian D'Amico

FP3. Humanoid robot control via hybrid zero dynamics (Scianca)

Stefano De Filippis, Andrea Tantucci, Andrea Wrona

FP5. Guaranteeing safety for autonomous vehicles via Control Barrier Functions (Ferrari)

Franco Pestarini, Zijun Huang

FP6. Motion planning for mobile manipulators with sampling-based MPC (Tarantos)

Leonardo Brizi, Eleonora Chiarantano, Luca Pierdicca

FP8. Evaluating the performance of stochastic MPC in an application scenario (Modugno)

Riccardo Ceccarelli, Valerio Gioffré, Federico Rollo

FP9. Humanoid gait generation: step timing adjustment (Lanari)

Fabian Lopez, Esteban Soto

FP10. Parking a drifting vehicle (Oriolo)

Luca Faraoni, Marco Menchetti, Edoardo Piroli

FP11. Human driving behavior correction based on Dynamic Window (Oriolo)

Marina Carnemolla, Ilaria Paglianti, Luca Patrizi

FP12. Graceful posture regulation for unicycle robots (Oriolo)

Barbara Bazzana, Tommaso Belvedere, Federico Kieffer

FP13. Control of an autonomous bicycle (Lanari)

Francesco Roscia, Gianmarco Roggioliani, Matteo Sodano