

AMR 2022/23: Final Project Group Assignments

(supervisor(s) name in parentheses)

FP1. Autonomous humanoid navigation in multi-floor environments (M. Cipriano)

Colonna, Manganaro, Zaramella

FP2. A navigation stack for a skid-steering mobile robot (M. Cipriano)

Castelmare, Di Francesco, Fazzi

FP3. Safe robot navigation in crowds with TIAGo (M. Cipriano, T. Belvedere and S. Tarantos)

Falciglia, Galasso, Purificato

FP4. Optimal kinodynamic planning for nonlinear hybrid systems (M. Cipriano and N. Scianca)

Pacciarelli, Perugini, Scaparro

FP5. Planning throwing motions for mobile manipulators (S. Tarantos)

Borvayeh, Gravina, Nunziante

FP6. Real-time generation of collision-free motions for mobile manipulators (S. Tarantos)

Ali, Castro Germanà, Leotta

FP7. Generation of minimum-sensitivity trajectories for differential-drive robots (T. Belvedere)

Nacca, Piraino, Scardino

FP8. Model-free control barrier functions for obstacle avoidance (T. Belvedere)

Montagna, Mizzoni, Rotondi

FP9. Improving the performance of RRT planners using informed sampling (N. Scianca)

Borghini, Corvitto, Di Valerio

FP10. Planning humanoid motion on uneven ground using the gravito-inertial wrench cone (N. Scianca)

Atanasious, Bozza, Taliani