

AMR 2024/25: Final Project Group Assignments

(supervisor(s) name in parentheses)

FP1. Trajectory optimization for humanoids via centroidal dynamics (Scianca)

Danese, Iannotti, Pontiggia

FP2. Task-priority control for mobile manipulators (D'Orazio)

Crisà, D'Urso, Italia

FP3. Practically safe controllers for mobile robots (D'Orazio)

Ghasemi, Mule, Pannacci

FP4. Humanoid MPC based on centroidal dynamics (Scianca)

Laganà, Nguyen, Teni

FP5. Multi-room navigation for TIAGo using RRT* (Cipriano, D'Orazio)

Bianchi, Federiconi, La Sala

FP6. Differentiable collision detection for autonomous driving (Cipriano)

Palumbo (1938214), Rota B., Rota S.

FP7. Humanoid navigation using control barrier functions (Cipriano)

Bugli, Imola, Rago

FP8. Autonomous vehicle drifting using nonlinear MPC (Cipriano)

Goddi, Palumbo (1939378), Pintore

FP9. MOD-RRT* for real-time planning in dynamic environments (Habib)

Mascolo, Paradiso, Serra