

Topics in Autonomous Robotics, Projects SS 2015-2016 – Distributed Intelligent Systems and Algorithms Laboratory

Note: max 2 students per project; register with corresponding assistant; first-to-come-first-to-serve. In case you want to propose your own project, please discuss directly your idea with the assistant below. However, note that we will not supervise projects that are not aligned with our research expertise and interest. Tailored project will have in any case also to be discussed transparently with other faculty before approval in order to insure fairness among all the students attending the course.

Modeling Self-Assembly of Lily Robots: A Comparison between Macroscopic and Submicroscopic Levels

- Literature review, 3 main papers
- Develop a macroscopic Markov model
- Extract reaction rates from numerous runs of the submicroscopic model (Webots)
- Compare predictions of the macroscopic model with those of submicroscopic model

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