

Lab 5

Distributed Intelligent Systems

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Content

- **Multi-level modeling**
 - Several abstraction levels
- **Modeling a robotic swarm**
 - **Submicroscopic models** → Realistic simulation, Webots
 - **Microscopic models** → average behavior of a single module
 - **Macroscopic models** → average behavior of a swarm
- **Prediction and evaluation of the performance of distributed systems**

Many questions!

- Among the longest labs
- Proceed sequentially
- Detailed explanations in the assignment
- Not much of code implementation
- Some involved mathematics

Running Webots in fast mode (S6)

- Dataset stored in */microscopic/data*
- If you want to run the script to create a new dataset, put Webots in fast mode manually after it launches
- Or make another copy of existing data files