

# Lab 7

# 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 already provided in */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