

Foundational papers in machine intelligence

Syllabus

Teacher: Andrea Roli (DISI, University of Bologna)

Teaching period: from June 15th to July 15th 2026

Year of study: first or second

Total hours: 12

Doctoral credits: 2,4 CD

Final verification: yes

The course aims to expose doctoral students to a critical selection of seminal and influential papers in the broad field of machine intelligence. Through a critical examination of foundational and philosophical contributions, students will explore key developments in artificial intelligence, robotics, cybernetics, and cognitive systems. The course emphasizes the historical evolution of ideas, their theoretical underpinnings, and their continuing impact on contemporary research in intelligent systems.

The course is organized into four three-hour lectures, each devoted to the presentation and discussion of selected landmark readings.

Calendar:

- June 19th, 2026 from 3 PM to 6 PM (room 2.10, Cesena Campus)
- July 1st, 2026 from 3 PM to 6 PM (room 2.10, Cesena Campus)
- July 7th, 2026 from 3 PM to 6 PM (room 2.11, Cesena Campus)
- July 9th, 2026 from 3 PM to 6 PM (room 2.11, Cesena Campus)

Course materials: papers will be provided.