Inter Institutional MSc on Artificial Intelligence

MSc on AI

Organised by
University of Piraeus & NCSR DEMOKRITOS

George Vouros,
Professor, University of Piraeus, Head of AI Lab and Director of II-MSc on AI
Our view

We believe that Artificial Intelligence is a “stand-alone” and well-established scientific domain of computer science, thus a well-defined subject of study that deserves specialised programs.

You may consider all the different views on AI.

The bottomline is that we-all need to develop strong AI technology addressing real-life problems requiring some form of intelligence, with respect to ethical concerns and human needs.
Some history on AI:

... demand for a large body of knowledge

Ed. Feigenbaum (1977, Notes on the Art of AI, a book never published)
Our goal

We aim to offer a comprehensive curriculum and a reach educational/learning experience, so as to educate students with the knowledge needed to deeply understand, successfully apply, analyse / evaluate and develop novel artificial intelligence methods, providing support for solving real-life problems that demand artificial intelligence solutions.
What we offer

- **12 courses** covering the whole body of knowledge on AI

- **in 2 semesters of full time study** (courses are always in the slot 18:00 - 21:00)

- **1+ semester for pursuing an MSc Thesis**

- **1 semester for optional practical experience** (after the 2 semesters of successfully attending courses)

- **Fridays’ AI Talks** with well-recognised lecturers in various advanced and challenging AI topic

- **An expanding ecosystem** of research and industrial organisations working on AI and innovating with AI
Percentage of required effort per subject taught

- Services and Applications
- Human Machine Interaction (Elective)
- Robotics and automation (Elective)
- Multi-agent systems
- Audio Processing
- Computer vision
- Natural Language Processing (Elective)
- Machine Learning
- Optimization
- Reasoning
- Ethics

90 ECTS in Total: 30 ECTS per semester
Percentage of covered body of knowledge per subject

- Services and Applications
- Human Machine Interaction
- Robotics and automation
- Multi-agent systems
- Audio Processing
- Computer vision
- Natural Language Processing
- Machine Learning
- Optimization
- Reasoning
- Ethics
# Teaching stuff

## MSc in Artificial Intelligence

### ALL CLASSES
- Generative
- Knowledge driven AI through natural language processing
- Natural language processing and computational linguistics
- Machine learning
- Advances in deep learning

### Lecturers
- Aristidis Avgerinos, PhD, Department of Informatics and MSc in Artificial Intelligence, University of Piraeus
- Eleftherios Goumas, PhD, Department of Informatics and MSc in Artificial Intelligence, University of Piraeus
- Nikolaos Andriopoulos, PhD, Department of Informatics and MSc in Artificial Intelligence, University of Piraeus
- Haris Spyropoulos, PhD, Department of Informatics and MSc in Artificial Intelligence, University of Piraeus
- Nikolaos Politis, PhD, Department of Informatics and MSc in Artificial Intelligence, University of Piraeus

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Who should attend

Anyone with a firm background on computer science and mathematics
(A relevant Bachelor degree is required, and should be recognised according to Greek law)

MSc on AI does not offer preparatory courses on programming languages and tools.
Take-away message

A comprehensive and well-balanced program of study from experts in AI topics, linked with an AI ecosystem of organisations, offering a variety of educational/learning opportunities, provided in 3 semesters of full time study.
Address your questions at

AI@iit.demokritos.gr

OR

georgev@unipi.gr

and follow us

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Inst. of Informatics and Telecommunications