

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

c. The lessons of the past:

1. the search for generality at the performance level led to an understanding that the power of AI systems derives from the domain-specific knowledge and not from the inference processes

a: retrospective: in this, the theme of AI research has shifted dramatically in the last 12 years. Cite Minsky's book & DENORAL paper



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

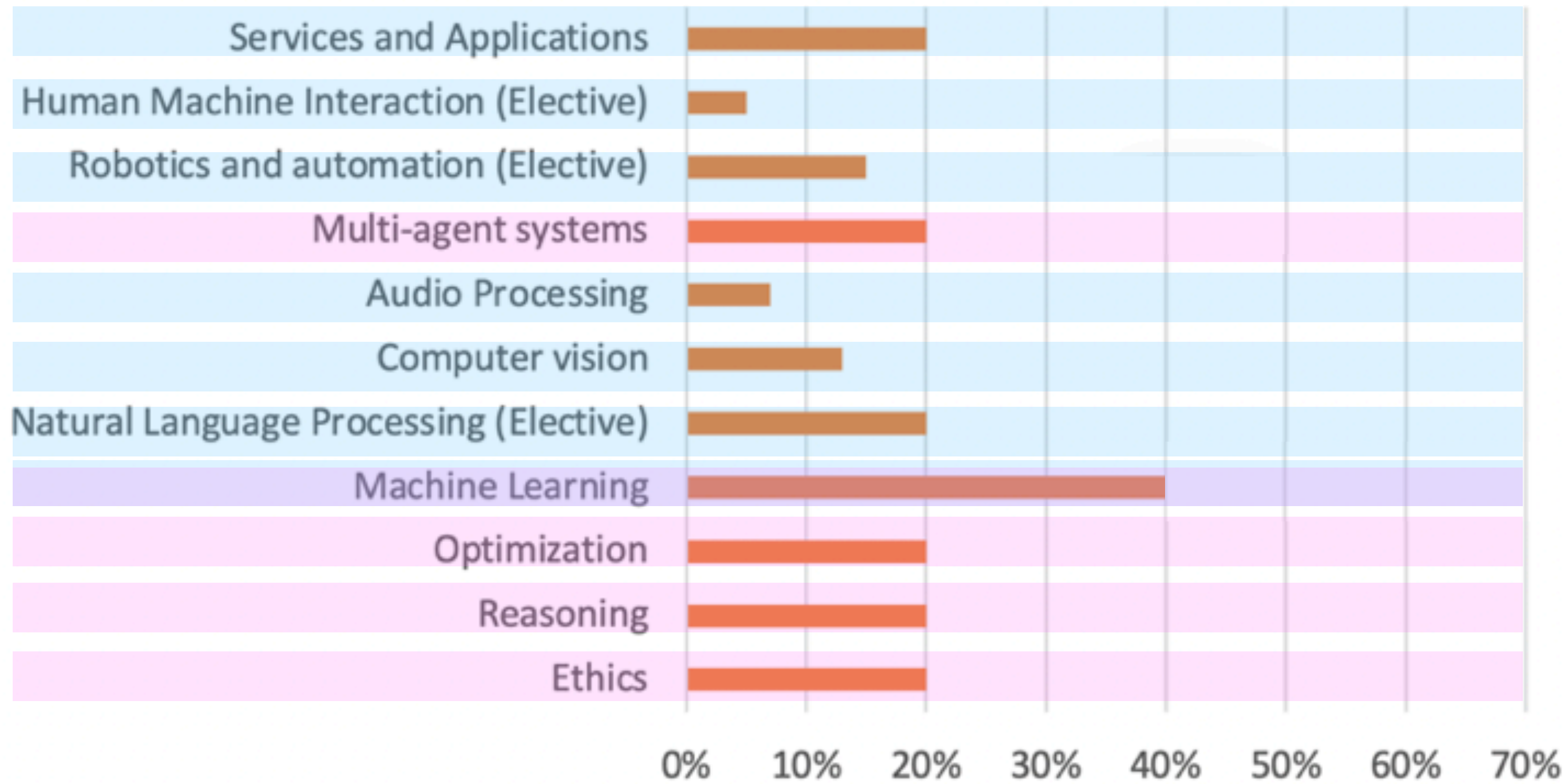
Our goal

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



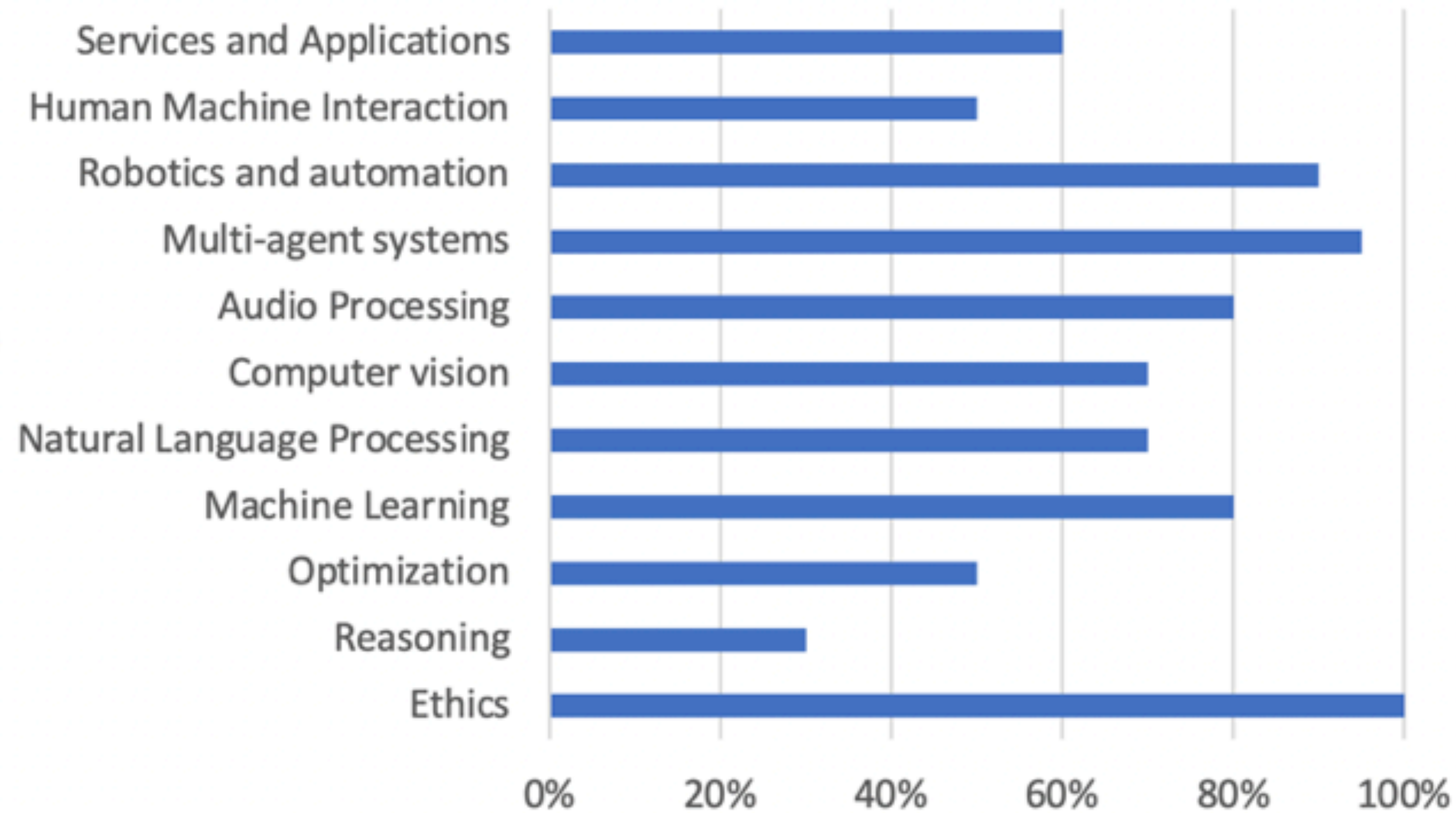
Semester A

Semester B

Semester C : MSc Thesis

90 ECTS in Total: 30 ECTS per semester

Percentage of covered body of knowledge per subject



Teaching stuff



STUDIES TUTORS APPLICATIONS ANNOUNCEMENTS CONTACT

ΔΙΔΑΣΚΟΝΤΕΣ



Ηλίας Αλεβίζης
ΕΚΕΦΕ "Δημόκριτος"
Ερευνητής



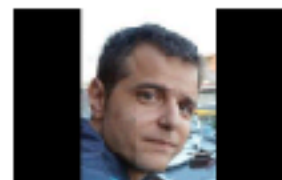
Αλέξανδρος Αστίκης[†]
Πανεπιστήμιο Πειραιώς
Δι. Καθηγητής



Γεώργιος Βούρος[†]
Πανεπιστήμιο Πειραιώς
Καθηγητής



Γεώργιος Πανακόπουλος
ΕΚΕΦΕ "Δημόκριτος"
Ερευνητής



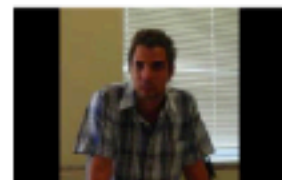
Θεόδωρος Πανακόπουλος[†]
ΕΚΕΦΕ "Δημόκριτος"
Ερευνητής



Μαρία Δαγιόγλου
ΕΚΕΦΕ "Δημόκριτος"
Ερευνητρια



Βαγγέλης Καρακαλότσης
ΕΚΕΦΕ "Δημόκριτος"
Ερευνητής



Νικόλαος Κατσούρης
ΕΚΕΦΕ "Δημόκριτος"
Ερευνητής



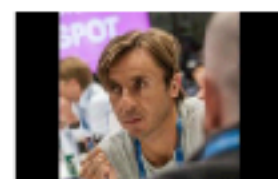
Θωμάς Κονιδάρης[†]
ΕΚΕΦΕ "Δημόκριτος"
Ερευνητής



Σταυρός Κωνσταντόπουλος
ΕΚΕΦΕ "Δημόκριτος"
Ερευνητής



Ηλίας Μαγλογιάννης[†]
Πανεπιστήμιο Πειραιώς
Καθηγητής



Αλέξανδρος Νεοσίας
ΕΚΕΦΕ "Δημόκριτος"
Ερευνητής



Γεώργιος Παλιούρας
ΕΚΕΦΕ "Δημόκριτος"



Γεώργιος Πετάσης
ΕΚΕΦΕ "Δημόκριτος"



Χριστόφορος Ρεκαταίνος
ΕΚΕΦΕ "Δημόκριτος"

ALL CLASSES

Detailed list

According to the decision of the Special Inter-Institutional Committee, next to the title of each course, there are the indications C, P, E, which mean that the course is compulsory, preparatory and elective respectively.

1ου εξμήνου

Artificial Intelligence Ethics and Regulatory Frameworks (Y)

Διδάσκοντες: Α. Ηούσιος, Μ. Δαγιόγλου

Fundamentals and Background on Artificial Intelligence (Y, P)

Διδάσκοντες: Σ. Κωνσταντόπουλος, Μ. Φαδικιάκης, Α. Χερουλιανίδης, Γ. Βούρος

Knowledge Representation and Reasoning (Y)

Διδάσκοντες: Σ. Κωνσταντόπουλος, Α. Τρουματάκης, Α. Χερουλιανίδης

Machine Learning (Y)

Διδάσκοντες: Θ. Πανακόπουλος, Γ. Βούρος

Intelligent Agents and Multiagent Systems (Y)

Διδάσκοντες: Γ. Βούρος

2ου εξμήνου

Robotics (E)

Διδάσκοντες: Μ. Δαγιόγλου, Γ. Σκουρίνης

Natural Language Processing (E)

Διδάσκοντες: Σ. Σπαρτιάτης

Scalable Artificial Intelligence Methods (E)

Διδάσκοντες: Ν. Κατσούρης, Ή. Αλεβίζος

Machine Learning on Multimedia Data (E)

Διδάσκοντες: Θ. Πανακόπουλος, Η. Μαγλογιάννης

Deep Learning (Y)

Διδάσκοντες: Θ. Πανακόπουλος, Γ. Βούρος

Artificial Intelligence Applications (Y)

Διδάσκοντες: Σ. Κωνσταντόπουλος, Γ. Βούρος, Η. Μαγλογιάννης, Μ. Χαλκιάδη, Χ. Ρεκαταίνος, Θ. Τιάλης, Μ. Ουλιπέκης

Artificial Intelligence Applications (Y)

Διδάσκοντες: Σ. Κωνσταντόπουλος, Γ. Βούρος, Η. Μαγλογιάννης, Μ. Χαλκιάδη, Χ. Ρεκαταίνος, Θ. Τιάλης, Μ. Ουλιπέκης

3ου εξμήνου

Master thesis (Y)

Διδάσκοντες: Ανάλογα με το θέμα της διπλωματικής εργασίας. Δείτε την ανακοίνωση για εκπόνηση διπλωματικής εργασίας.

	Articles		Citations		H-index	
	Google Scholar	Scopus	Google Scholar	Scopus	Google Scholar	Scopus
Average	156	103	3613	1706	23	17
Total	1717	1134	39739	18765	N/A	



SWI Prolog



 Potassco, the Potsdam Answer Set Solving Collection

RTEC: Run-Time Event Calculus



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

 @MSc in Artificial Intelligence



Inst. of Informatics and Telecommunications