

ARTIFICIAL INTELLIGENCE

Artificial Intelligence (AI) refers a kind of intelligence that enables machines to emulate intelligent behavior or to do things that people mostly do better. Al technologies have an important impact on our daily activities in business, as individuals, and as a society. During this course, apart from learning about AI fundamentals and applications, you will use specific techniques about different areas of AI such as knowledge representation and machine learning.

> Course duration: 10 contact hours

> Dates: 17, 18 & 21 July 2023

INSTRUCTORS



Prof. Asunción Gómez-Pérez is full professor of Artificial Intelligence. She is Fellow of the



Dr. María Poveda-Villalón is an Assistant Professor at the Universidad Politécnica de

LEARNING GOALS

Acquire

Theoretical bases

Scientific, methodological and technological practices

Development of machine learning systems and the Semantic Web



Concepts

	Machine learning systems		
	Semantic Web		
	Web of Data		
	Open data		
	Ontology representation languages	on the	Web

SYLLABUS





Industry talk: Intelligent Enterprise Unleashed



Emilio Serrano is an associate professor at the Department of Artificial Intelligence at the MSc in Computer Science and a PhD in Artificial Intelligence, both from the University of Murcia. He was a visiting researcher at the University of Edinburgh, University of Oxford, and National Institute of Informatics in Tokyo. He was principal investigator in two educational



DATA SCIENCE FUNDAMENTALS

Extracting the value that can be hidden in data to support decision-making processes. Challenges include analysis, capture, data curation, search, sharing, storage, transfer, visualization, querying, updating and information privacy. The course will review the different phases of the project to extract knowledge from databases with special emphasis on the extraction of predictive models.

> Course duration: 10 contact hours

- > Dates: 19, 20 & 21 July 2023
- Recommended background knowledge for students:
- Data Bases
- Basics of Programming

INSTRUCTORS

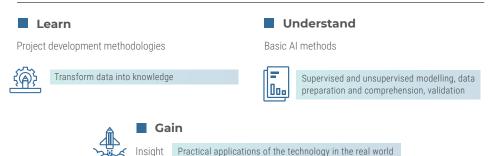


Dr. Ernestina Menasalvas is full professor of data mining at the Department of Computer Systems Languages and Software Engineering, School of Computer Science, Universidad Politécnica de Madrid (UPM). She holds a PhD in Computer Science. She is currently a member of the MIDAS Data Mining and Group at the Center for Biotechnology and databases and data mining professor at UPM. Her research interests include data mining project development, recently focusing on data mining in the medical field.



Dr. Alejandro Rodríguez-González is associate professor at the Department of Computer Languages and Systems and Software Engineering at the Universidad Politécnica de Madrid and he holds a PhD in Computer Science. His main research interests are Semantic Web, Artificial Intelligence and the Biomedical informatics field, especially the development medical diagnosis systems, medical knowledge representation, the extraction of knowledge from different sources (text, social media, etc.) and the analysis of social media impact on e-Health, and he has participated in competitive projects in related fields.

LEARNING GOALS



SYLLABUS



Meet Our INDUSTRY SPEAKER



Dr. Juan Miguel Gómez Berbís is associate professor at the Department of Computer Science in the Universidad Carlos III de Madrid. He received his PhD from the Digital Enterprise Research Institute (DERI) at National University of Ireland, Galway. He received his MBA from IE Business School, an MS in Software Engineering from the Swiss Federal Institute of Technology (EPFL) in Lausanne (Switzerland) and an MS in Telecommunications Engineering from the Universidad Politécnica de Madrid (UPM). He is now leading H2020 initiatives and ITEA3 major flagship projects.