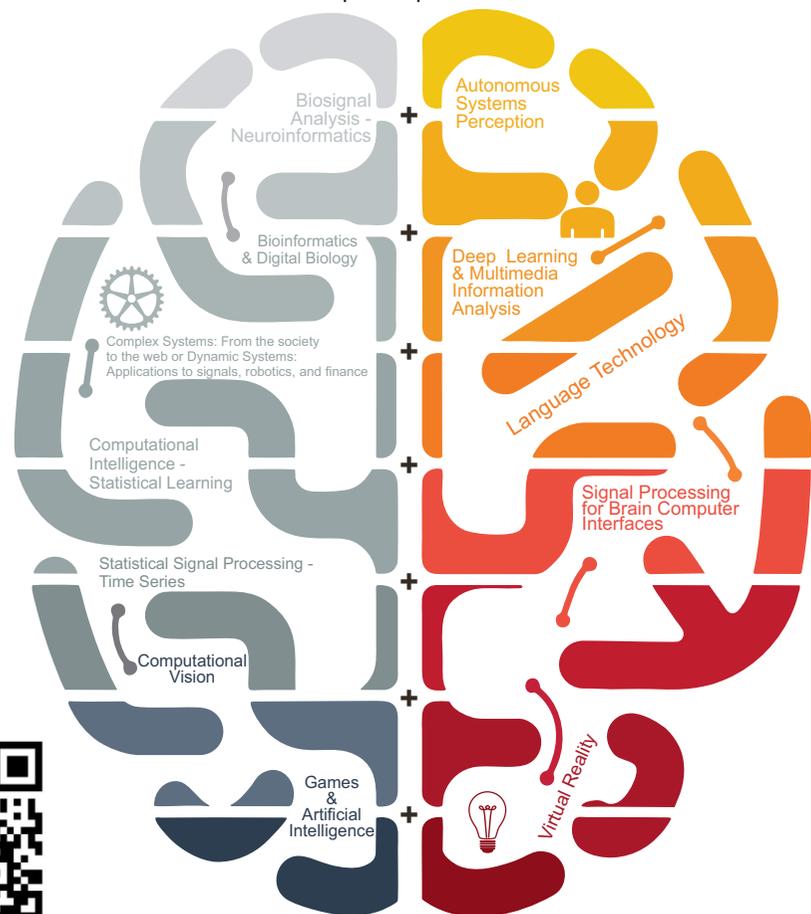


Fees/Scholarships

Full-time: € 1800 (for the entire three-semester programme).

At least 30% of the registered graduate students are entitled to a scholarship.

Excellence awards and merit scholarships are possible.



Entry requirements

A degree (or an international equivalent) is required in computer science or electrical and computer engineering or a numerate physical science discipline. Further information about the programme is available at <https://dmci.csd.auth.gr/en/msc-useful-info/>

The list of qualifications, the application procedure, and the governing policies are available at <https://dmci.csd.auth.gr/admissions/en/>



ARISTOTLE
UNIVERSITY
OF THESSALONIKI



SCHOOL
OF INFORMATICS
AUTH



Msc Digital Media - Computational Intelligence

Signals, Computational Vision, Intelligence, Graphics, Robotics, Bioinformatics

<https://dmci.csd.auth.gr/en/>



Awards available: MSc

Length: 18 months

Location of programme: Aristotle University Campus

Part-time study available: Yes

Start date: October 2021

This programme comprises 8 courses distributed evenly between the first two semesters, followed by a MSc diploma thesis reporting on the outcome of a substantial research project completed during the third semester. Courses may be taught in English. The programme has been offered for 17 years. It has been reinstated anew according to the Greek law.

Contact details:

Professor Constantine Kotropoulos

Email: costas@csd.auth.gr



Programme overview

This MSc covers a range of advanced topics related to digital media. Digital media collectively refer to content found in audio, images, video, written and aural speech, biological data, graphics, and virtual reality. To analyze such content, one needs good foundations in signal processing, computational vision, graphics, digital biology, machine learning and computational intelligence, including associated enabling technologies (e.g.,

The 8 courses will be chosen from the following list:

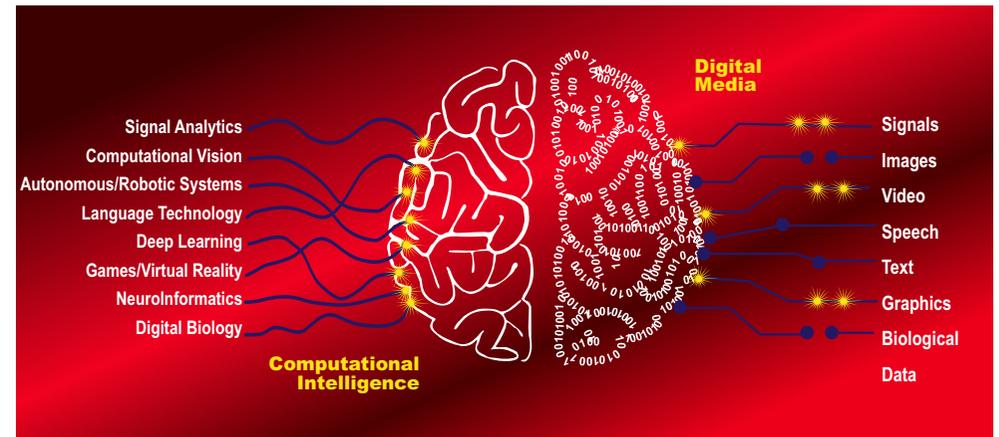
Autumn Semester <i>(4 elective courses)</i>	Spring Semester <i>(4 elective courses)</i>
Bioinformatics and Digital Biology	Autonomous Systems Perception
Biosignal Analysis - Neuroinformatics	Deep learning and Multimedia Information Analysis
Computational Intelligence - Statistical Learning	Language Technology
Computational Vision	Signal Processing for Brain Interfaces
Dynamic Systems: Applications to signals, robotics, and finance*	Virtual Reality
Complex Systems: From the society to the web*	
Games and Artificial Intelligence	
Statistical Signal Processing - Time Series	

* Offered every other year

This programme builds on the internationally recognized research strengths of the [Artificial Intelligence and Information Analysis Laboratory](#) within the [School of Informatics](#) at the Aristotle University of Thessaloniki. This research team conducts pioneering research in the aforementioned fundamental disciplines and application areas. The laboratory is well equipped with first-class computational facilities and state-of-the-art measurement equipment, including multiple cameras, microphone arrays, motion capture magnetic sensors, brain interfaces, and drones. The MSc provides in-depth training in design, analysis, and management skills relevant to the theory and practice of related industry.

deep learning, bioinformatics, language technologies, computer animation, brain computer interfaces).

The MSc provides an excellent opportunity to develop the skills required for careers in some of the most dynamic fields in processing and analysis of big data extracted from multimedia and biological databases, social networks, robotics and autonomous systems, without excluding complex adaptive systems of social life.



Careers

This is a challenging three semester taught master's degree, covering all aspects of signal processing, computational vision, computational intelligence, graphics, and robotics. It will prepare you for a diverse range of exciting careers - not only in the digital media and computational intelligence field, but also in areas such as autonomous systems, brain-computer interfaces, bioinformatics and digital biology, finance, innovation, consultancy, project management, and employment in government agencies.

Our graduates have gone on to have rewarding careers in some of the leading national or multinational companies, such as NCR, SRI International, BETA CAE Systems, Wind Hellas, or government agencies (e.g., forensics experts in the Hellenic Police). Many graduates have chosen a research-oriented career, pursuing doctoral studies and / or gaining faculty positions at leading universities, such as Texas A&M, USA; Imperial College, U.K.; Henan University, China; Trinity College, Ireland; Middlesex University, U.K.; University of Maastricht, The Netherlands; and Aristotle University of Thessaloniki as well as main research institutes (e.g., ITI/CERTH).