General information

An intensive set of courses providing attendees with an introduction to the theoretical foundations as well as the practical applications of some of the machine learning methods and the modern statistical analysis techniques currently in use

12 courses of 15 h each are offered during 2 weeks

Each course has theoretical and practical classes with a computer

Students are free to choose the courses according to their interests, i.e., no restrictions besides those imposed by timetables, apply on the number or choice of courses

Registration

40 people max per course

Courses with less than 6 people will not be open

Price per course	By May 27	After May 27
Academia	300 €	350 €
Industry	425 €	475 €

25% discount for AEPIA and SEIO members

Tuition fees include attendance to lectures and educational materials

Fees will be independent from the number of enrolments

Application via email: mlas@fi.upm.es

A worldwide top 10 Maths & Stats summer school according to INOMICS (in 2015-2017)

Organization

P. Larrañaga, Professor at UPM
C. Bielza, Professor at UPM
B. Mihaljević, Associate Professor at UPM
L. González, Manager

Computational Intelligence Group
Escuela Técnica Superior de Ingenieros Informáticos
Universidad Politécnica de Madrid (UPM)
Campus de Montegancedo
Boadilla del Monte, 28660 Madrid (Spain)
http://www.dia.fi.upm.es/MLAS

Phone: 91-067-3093

Email: mlas@fi.upm.es

POLITÉCNICA

CIG

ellis unit MADRID

POLITÉCNICA

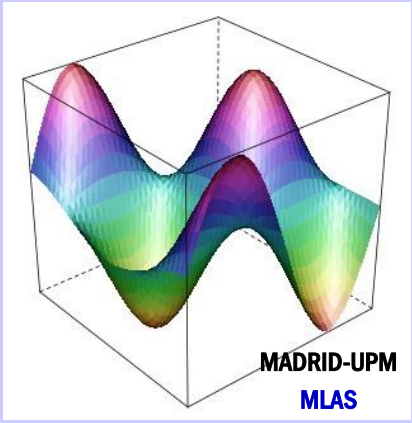
Departamento Inteligencia Artificial

MADRID-UPM

16th Machine Learning and Advanced Statistics Summer School

(formerly ASDM)

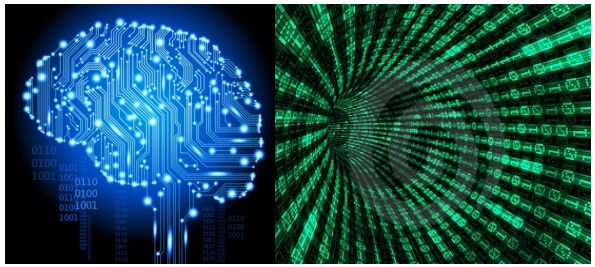
2024



Madrid, June 17--28, 2024

Escuela Técnica Superior de Ingenieros Informáticos
Universidad Politécnica de Madrid (Spain)
http://www.dia.fi.upm.es/MLAS

Programme



This summer school complements the technical background of attendees in the field of data analysis and modelling

Open to any student or professional seeking further knowledge about a field that is more and more involved in nearly all productive areas (Computer Science, Engineering, Pharmacy, Medicine, Economics, Consultancy, Sports, Statistics, etc.)

Also providing a set of computational tools to try the studied techniques on practical problems

Teachers will make the course content accessible to students with all backgrounds

Week 1

June 17-21, 2024	
9:45-12:45	• C01: Bayesian Networks • C02: Time Series
13:45-16:45	• C03: Supervised Classification • C04: Statistical Inference
17:00-20:00	• C05: Deep Learning • C06: Bayesian Inference

Week 2

June 24-28, 2024	
9:45-12:45	• C07: Feature Subset Selection • C08: Clustering
13:45-16:45	• C09: Gaussian Processes and Bayesian Optimization • C10: Explainable Machine Learning
17:00-20:00	• C11: SVMs, Kernel Methods and Regularized Learning • C12: Hidden Markov Models

Instructors

C01: C. Bielza, P. Larrañaga, B. Mihaljević (UPM)

C02: A. Justel (UAM), K. Miranda (UAM), A. Alonso (UC3M)

C03: P. Larrañaga, C. Bielza, B. Mihaljević (UPM)

C04: R. Mínguez (UCLM)

C05: A. Barbero, A. Suárez (UAM)

C06: C. Ausín (UC3M), M. Zaharieva (CUNEF)

C07: B. Mihaljević, P. Larrañaga, C. Bielza (UPM)

C08: A. Otero (CEU-San Pablo)

C09: D. Hernández-Lobato (UAM), E. Garrido (U. Comillas)

C10: B. Mihaljević, E. Valero-Leal (UPM)

C11: A. Barbero, C. Alaíz (UAM)

C12: A. Álvarez (UPM)