

# Summerschool on Advanced data analysis and modelling

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Dear colleagues,

San Pablo – CEU University in collaboration with other five universities (Málaga, Politécnica de Madrid, País Vasco, Rey Juan Carlos, and Castilla La Mancha), nine companies, CSIC and IEEE organizes a summerschool on "Advanced Data Analysis and Modeling" in Madrid between June 26th and July 27th. The full summerschool is 120 hours long and is divided into 10 courses. Attendees may register in each course independently. The deadline for registration is June 1st. For more information, please, visit <http://biocomp.cnb.csic.es/~coss/Docencia/ADAM/ADAM.htm>

Best regards, Carlos Oscar

\*List of courses and brief description\* (full description at <http://biocomp.cnb.csic.es/~coss/Docencia/ADAM/ADAM.htm>)

- Course 1. STATISTICAL INFERENCE (June 26th – June 29th)  
Introduction, Some basic statistical tests, Simple linear regression.  
Practical sessions: SPSS
- Course 2. MULTIVARIATE DATA ANALYSIS (June 26th – June 29th)  
Introduction, Data examination, Factor analysis, MANOVA,  
Multidimensional scaling, Structural equation modeling. Practical  
sessions: SPSS
- Course 3. BAYESIAN NETWORKS (July 3rd – July 6th)  
Basics, Inference in Bayesian networks, Learning Bayesian networks from  
data. Practical sessions: Hugin, Elvira, Weka, LibB
- Course 4. NEURAL NETWORKS (July 3rd – July 6th)  
Introduction, Perceptron networks, The Hebb rule, Multivariate  
optimization, Rule of Widrow–Hoff, Backpropagation. Practical sessions:  
MATLAB
- Course 5. ASSOCIATION RULES (July 10th – July 13th)  
Introduction, Rule discovering, Knowledge discoverage in biological  
data, Applications. Practical sessions: Bioinformatics tools
- Course 6. EXPERT SYSTEMS (July 10th – July 13th)  
Introduction, Expert system programming, Hybrid systems. Practical  
sessions: CLIPS and JESS

## Summerschool on Advanced data analysis and modelling

Course 7. HIDDEN MARKOV MODELS (July 17th – July 20th)

Introduction, Discrete HMM, Basic algorithms, Semicontinuous HMMs, Continuous HMMs, Clustering, Generalized HMMs. Practical sessions: HTK

Course 8. TIME SERIES ANALYSIS (July 17th – July 20th)

Introduction. Probability models, Regression and Fourier analysis, Forecasting and Data mining. Practical sessions: MATLAB, R.

Course 9. DATA MINING (July 24th – July 27th)

Introduction, Exploring data, Classification, Cluster analysis, Survival analysis, Anomaly detection. Practical sessions: R, WEKA

Course 10. PATTERN RECOGNITION (July 24th – July 27th)

Introduction, Performance of supervised c