



The primary social and economic value of modern societies is knowledge. For this reason, mastery of Information technology for structured or unstructured information recorded in Data warehouses such as the web and containing dormant knowledge is indispensable for the development of both the individuals and the society where they live. *Data mining* and *knowledge management* (DMKM) have become essential for improving the competitiveness of businesses and increasing access to knowledge. DMKM still, however, comes up against major scientific and technological obstacles.

The **Erasmus Mundus Master Course in Data Mining and Knowledge Management (DMKM)** proposes specialist training in this field. This is a two years course.

The higher education consortium that organizes the master is composed of six universities in four countries:

- France (University Pierre et Marie Curie, Paris 6, University Lumière Lyon 2, Polytech'Nantes - Polytechnic Graduate School of Nantes University),
- Romania (Technical University of Bucharest),
- Italy (University of Eastern Piedmont Amedeo Avogadro) and
- Spain (Technical University of Catalonia)

The Master's in DMKM is based on experience in multi-site teaching gained from the Master's degree in Knowledge Extraction from Data, which has been running since 1999 within three members of the consortium. The Master's in DMKM is aimed at students from all over the world. Candidates must have a Bachelor's degree (or equivalent) in *computer science*, *applied mathematics* or *statistics*, as well as a good level of English (TOEFL 550 or equivalent). Admission is granted on the basis of a selection procedure. Classes are taught in English and the course is composed of 18 modules of around sixty hours each.

The course runs over 4 semesters on at least two countries of the European Union. The first semester is devoted to basic training that includes theoretical mathematics, statistics, databases, logic, knowledge representation etc. whereas the two following semesters are dedicated to acquire 2 specialities among 6 in "E-Science", "Data Mining and Complex System Modelling, Application in Social Science", "Knowledge and Decision", "Statistical Modelling and Data Mining", "Web Semantic" and "Relational Data Mining". The fourth semester is devoted to the writing of a dissertation in either a laboratory or a company.

Language classes will also be provided to ensure that students integrate as well as possible in socio-cultural terms in the host country. Each student must spend (6-12) months in at least two of the 4 countries. Students that have obtained 120 ECTS, will automatically obtain national Master's degrees from the countries in which they have studied. Classes are transmitted via video-conferencing. They are also recorded and accessible on line. Students can benefit, on their site of residence, from support in the form of tutoring for each course. Tuition fees are 4,000 € for European students and 8,000 € for other students.

The European Union provides up to 20 scholarships that covers transportations, subsistence and tuition fees. It offers also up to 6 scholarships to scholars. The deadlines for applications are:

- 2 January 2010 for Scholarships for Non European students and scholars
- 15 April 2010 for Scholarships for European students
- 20 June 2010 for DMKM Master Course

www.em-dmkm.eu

Professor Jean-Gabriel Ganascia
DMKM Consortium communication
jgganascia@em-dmkm.eu
University Pierre et Marie Curie - Paris 6