



**Research Openings at Telefónica Research in Madrid, Spain
(Research scientists, visiting professors, post-docs, interns).**

Areas: AI & Data Mining, User Modeling, Personalization, Business Intelligence.

Telefónica Research in Madrid has several research openings at all levels in the new **Data Mining and User Modeling research group** (<http://research.tid.es/usermodeling>), which focuses on human-centered approaches to data analysis for customer modeling, personalization, and recommender systems. A special emphasis of the group is on principled data analysis taking transdisciplinary approaches that consider socio-cultural context and personal preferences. Research topics for **AI & Data Mining** positions include the following (**see website for the other areas**):

- Behavioural pattern recognition, social network analysis, interactive, online and visual data mining and data visualization, machine learning for information extraction and integration, probabilistic, and model-based reasoning, ontology and knowledge representation, security and privacy aspects in the management of user data, soft computing techniques, semantic data mining, relational data mining.
- Mining of multiple data types and sources: time-series analysis, streams, high-dimensional, sensor data, text and semi-structured data, multimedia, user logs, spatial and temporal data.
- Statistical learning: kernel methods, SVM, bayesian inference, bayesian networks, Boosting, EM.
- Applications of data mining and AI techniques to user modelling, personalization, and business intelligence.

Selected candidates are expected, and will have the opportunity to develop and lead their own area of research, with significant support from our engineering teams. Individuals must therefore be able to carry out leading independent research while working closely within an interdisciplinary team.

Applicants should have a Ph.D. degree in Computer Science or a related field, **a strong publication record**, and experience in at least one of the areas above. Interdisciplinary background and interests and/or experience in social aspects of computing considered favorably (technology for developing regions, culture-aware computing, etc.) Successful candidates will be highly motivated, creative, dynamic, fluent in English, have excellent communication skills (written and oral), and be able to interact well in international, multidisciplinary, R&D teams. Knowledge of Spanish is not necessary.

Selected candidates are expected to publish in the top-ranked conferences and journals in the field, engage in open research collaborating with international academic partners, and actively participate in the research community (program committees and other activities), and in European (FP7), and other national and international projects. Selected candidates will work closely with other members of the research group and interact with engineering teams to contribute to solutions of real-world research problems.

Telefónica Research offers an internationally competitive salary and benefits package (flexible working schedule, Spanish classes, lunch subsidy, full medical coverage, etc.) in an international, dynamic work environment in Spain's largest and most international city. As one of the most important European capitals, Madrid offers a vast array of cultural activities, convenient international air connections and some of the best restaurants and nightlife in the continent.

Inquiries and applications should be sent to Dr. Alejandro Jaimes <ajames@tid.es> with the subject line "TID Research Application- DM". There is no deadline: positions will be open until filled.

Telefónica is a world leader in the telecommunication sector, with presence in over 23 countries and over 218 million customer accesses (2007). Services offered by the Telefonica group include mobile & fixed line phone, ISP, IPTV, web portals, and others. Telefónica R&D is the innovation company of the Telefónica Group. Owned 100% by Telefónica, it was formed in 1988, with the aim of strengthening the Group's competitiveness through technological innovation. It is the most important private R&D company in Spain, in terms size, activities, resources, and participation in European Research projects.

<http://research.tid.es/usermodeling>