First Prometidos Summer School
Madrid, 19-21 September

PROMETIDOS-CM (Madrid Program in Rigorous Methods for the Development of Software) is a R+D program funded by the regional government of Madrid, Spain, that involves some leading research groups in Computer Science in the region (IMDEA-Software, CLIP-UPM, BABEL-UPM, FADOSS-UCM, GPD-UCM). The scientific interests of PROMETIDOS-CM cover all aspects of development of software based on modular, scalable and realistic rigorous methods.

One of the strategic purposes of PROMETIDOS-CM is the realization of effective training actions to introduce young post-graduate and PhD students in the research area of rigorous methods. The announced Summer School attempts to be a contribution in this sense.

Manuel Carro Liñares
Tabled Logic Programming and Applications

Tabled Logic Programming, also known simply as “tabling”, is a strategy for the evaluation of logic programs. As an alternative to the better-known SLD resolution, it provides an operational semantics which is closer to the declarative one by enhancing termination properties and, as a side-effect, improving performance. This leads to writing programs which are, in some cases, clearer, shorter, and more efficient than their Prolog counterparts. Additionally, tabling implementations can be used to execute programs featuring stratified negation and programs under the well-founded semantics. In this talk we will introduce tabling and its applications by means of examples, and we will devote some time to scratch on the surface of what making a tabling implementation entails.

Manuel Carro is an associate professor at the Computer Science School of the UPM and Deputy Director of the IMDEA Software Institute. He obtained his PhD at the UPM, and his research interests include declarative languages (especially logic and constraint-based ones), their implementation and analysis, parallelism, concurrency, visualization, and service-oriented computing. He has served as PC member in many conferences and publishing more than 60 papers in national and international conferences and journals.