

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.

César Kunz

Relational reasoning using program products

Relational program logics are formalisms for specifying and verifying properties about two programs or two runs of the same program. These properties range from correctness of compiler optimizations or equivalence between two implementations of an abstract data type, to properties like non-interference or determinism. Yet the current technology for relational verification remains underdeveloped. Program products reduce relational verification directly to standard verification, thus enabling the use of existing tools, and minimize at the same time the loop specification effort. We illustrate the benefits of our method with selected examples, including non-interference, the validation of complex optimizations, and program continuity.

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