



UNIVERSIDAD COMPLUTENSE
MADRID

AVISO DE CONFERENCIA

Nominal Completion for Rewrite Systems with Binders (Joint work with Albert Rubio)

Prof^a. Maribel Fernández, King's College London

Facultad de Informática
Aula 14 • 5 de julio de 2012 • 12:00
entrada libre hasta completar el aforo

resumen:

Nominal rewriting generalises first-order rewriting by providing support for the specification of binding operators, using the nominal approach. In this talk, I will present a new ordering that can be used to prove termination of nominal rewriting rules, generalising the recursive path ordering to take into account alpha equivalence. Using this ordering, we have designed a Knuth-Bendix style completion procedure (to our knowledge, this is the first completion procedure available for rewriting systems with binders). An implementation can be found at <http://www.lsi.upc.edu/~albert/nominal-completion.tar.gz>

sobre Maribel Fernández:

Maribel Fernández is Professor of Computer Science at King's College London. She obtained her PhD in 1993 from the University of Paris-Sud, and her Habilitation in 2000 while she was a Maitre de conférences at the Ecole Normale Supérieure in Paris. Her research interests include computation models, specification and programming languages, and the development of tools for the analysis and verification of complex systems. Her expertise is in type systems, semantics, and foundations of security, using rewrite-based techniques (term and graph rewriting, and lambda-calculus).