Speakers: Francisco Durán

Title: NuITP: An Inductive Theorem Prover for Maude

Abstract: Abstract: NuITP is an inductive equational theorem prover for Maude equational theories that combines advanced symbolic techniques such as narrowing, equality predicates, variant unification, variant satisfiability, order-sorted congruence closure, ordered rewriting, and strategy-based rewriting (all applied modulo axioms). This talk presents the tool, focusing on its more novel inference rules, and illustrates how their use on specifications using the expressive power of Maude equational theories, including sorts and subsorts, conditional equations and rewriting modulo axioms, may simplify the proving task and help in the prove of challenging problems.