

**Speakers:** Santiago Escobar

**Title:** Unification and Narrowing in Maude 3.5

**Abstract:** Maude is a language and a system based on rewriting logic. It is a mathematical modeling language thanks to its logical basis and its initial model semantics. Maude can be used in three, mutually reinforcing ways: as a declarative programming language, as an executable formal specification language, and as a formal verification system. Logical reasoning capabilities have been added to Maude during the last decades. This talk gives an overview of the different unification and narrowing techniques available in Maude 3.5, focusing on some of the programming, modeling, and verification aspects of Maude.