



SEMINARIO

Departamento de Sistemas Informáticos y Computación

Facultad de Informática
Universidad Complutense de Madrid

23-11-2010

Connecting bilattices theory
and fuzzy logic

14:00
Aula 2
Facultad de
Informática

Daniele Genito
University of Salerno, Italy

The aim of my research is to investigate the potentialities of bilattice theory for formal fuzzy logic.

Bilattice theory represents an interesting tool for the treatment of both truth and grade of information from an algebraic point of view and its principal task is to give successful tools for logic programming.

The semantics and the deduction apparatus introduced for a bilattice-based logic are related to the paradigm of fuzzy logic, so it's possible to extend in a suitable way the definitions usually considered in the graded approach to fuzzy logic and obtain a nice extension of it.

Daniele Genito received a MSc degree in Mathematics from the University "Federico II" of Naples (Italy) in 2006. He is DPhil in Mathematics from the University of Salerno (Italy) in 2010.

His research fields are: Mathematical logic, fuzzy logic and Bilattices theory.

Daniele Genito is visiting the GPD (Group of Declarative Programming) at the UCM, with a post-doc position (*) from October to January 2011.

(*) Regional project
PROMETIDOS-CM.