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.

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(*) Regional project PROMETIDOS-CM.