University at Buffalo
The State University of New York

Presents

Prof. Sergio Greco, University of Calabria

On the Decidability of Logic Programs with Function Symbols

Function symbols are widely acknowledged as an important feature in logic programming, but unfortunately, common inference tasks become undecidable in their presence. To cope with this issue, recent research has focused on identifying decidable classes of programs allowing only a restricted use of function symbols while ensuring decidability of common inference tasks.   In this talk, we give an overview of current termination criteria. We also present a technique which can be used in conjunction with current termination criteria to enlarge the class of programs recognized as terminating.

Bio: Sergio Greco is a full professor and chair of the Department of Informatics, Modeling, Electronics and System Engineering. He is also coordinator of the PhD program in Computer and Systems Engineering, and ssociated researcher at the Institute of High Performance Computing and Networks of the Italian National Research Council. He has published more than 180 papers including more than 50 journal papers and about 100 papers published on the proceedings of international conferences. His primary research interests include database theory, logic programming, logic and deductive database, nonmonotonic reasoning, data integration and exchange, and data mining.

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3:30 - 4:30 PM

University at Buffalo – North Campus – Davis 113A

Refreshments for attendees after the talk.   This talk is free and open to the public

For more information, please email **cse-dept@cse.buffalo.edu** or contact (716) 645-3180