

# LINZ 2010

31st Linz Seminar on Fuzzy Set Theory

## Lattice-Valued Logic and its Applications

Bildungszentrum St. Magdalena, Linz, Austria  
February 9 - 13, 2010

### Program Chairs

Petr Cintula  
*Praha, Czech Republic*

Lawrence N. Stout  
*Bloomington, IL, USA*

### Program Committee

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*Linz, Austria*

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*Gent, Belgium*

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### CALL FOR PAPERS

Since their inception in 1979 the Linz Seminars on Fuzzy Sets have emphasized the development of mathematical aspects of fuzzy sets by bringing together researchers in fuzzy sets and established mathematicians whose work outside the fuzzy setting can provide direction for further research. The seminar is deliberately kept small and intimate so that informal critical discussion remains central. There are no parallel sessions, and during the week there are several round tables to discuss open problems and promising directions for further work.

LINZ 2010 will be the 31st seminar carrying on this tradition and is devoted to the theme "Lattice-valued logic and its applications". The goal of the seminar is to present and discuss recent advances of mathematical fuzzy logic (understood in the broader framework of lattice-valued logics) and to concentrate on its applications in various areas of computer science, linguistics, and philosophy. Accordingly, the topics of the Seminar will include but not be limited to:

#### Lattice-based logic

- Predicate, higher order, and modal fuzzy logics
- Semantic, proof theoretical, and model theoretical approaches
- Complexity considerations

#### Applications of that logic to

- Knowledge representation
- Reasoning with imperfect information
- Hedges and intensifiers
- Theories of vagueness
- Artificial intelligence

The "Linz" tradition has these key features: the number of participants of the Linz Seminars is usually bounded above by 40 with broad international representation and a mix of pure and applied interests; there are no parallel sessions so that all participants focus on each presentation and fully engage each topic; and there is ample time for discussion of each presentation, with follow-up round tables for discussion of open problems and issues raised in the talks.

Petr Cintula and Lawrence N. Stout will act as Chairpersons of the Program Committee, the following invited speakers have already confirmed their participation:

- **Radim Belohlavek** (Palacký University, Olomouc, Czech Republic)
- **Christian Fermüller** (Vienna University of Technology, Vienna, Austria)
- **Nikolaos Galatos** (University of Denver, CO, USA)
- **Joseph Y. Halpern** (Cornell University, Ithaca, NY, USA)
- **George Metcalfe** (University of Bern, Switzerland)

**Please send your extended abstract (1–4 pages)  
by November 30, 2009 to [linz2010@flll.jku.at](mailto:linz2010@flll.jku.at)**

**Further Information:** <http://www.flll.jku.at/div/research/linz2010/index.html>