

LINZ 2014

35th Linz Seminar on Fuzzy Set Theory **Graded Logical Approaches and their Applications**

Bildungszentrum St. Magdalena, Linz, Austria
February 18 - 22, 2014

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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 philosophy of the seminar has always been to keep it deliberately small and intimate so that informal critical discussions remain central.

LINZ 2014 will be the 35th seminar carrying on this tradition and is devoted to the theme "**Graded logical approaches and their applications**". The goal of the seminar is to present and to discuss recent advances of graded logical approaches and their various.

Accordingly, the topics of the Seminar will include but not be limited to:

- Fuzzy Logic
(Mathematical fuzzy logic, logics with evaluated syntax, many-valued logics, fuzzy modal logics, related algebraic structures)
- Probabilistic and uncertainty models on algebras of fuzzy logic
(States, algebraic models for states)
- Uncertainty and Similarity-based Reasoning
(Probabilistic logics, Possibilistic logic, Non-monotonic reasoning, Causal reasoning)
- Fuzziness and Uncertainty in: Logic programming, Answer set programming, Description logics, Formal concept analysis
- Logical aspects of (fuzzy) rough sets and fuzzy concept lattices
- Weighted and fuzzy automata

The following invited speakers (in alphabetic order) have already confirmed their participation:

- Stefano Aguzzoli, University of Milan (Italy)
- Ioana Leustean, University of Bucharest (Romania)
- Didier Dubois, IRIT-CNRS (France)
- Gabriele Kern-Isberner, University of Dortmund (Germany)
- Rafael Peñaloza, University of Dresden (Germany)
- Anna Zamansky, University of Vienna (Austria)

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 in 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.

**Please send your extended abstract (1 – 4 pages) until
November 29, 2013 to linz2014@f111.jku.at
Further Information:
<http://www.f111.jku.at/div/research/linz2011/index.html>**

