LINZ 2023

40th Linz Seminar on Fuzzy Set Theory

Copulas
Theory and Applications

Bildungshaus St. Magdalena, Linz, Austria
June 6-9, 2023

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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 in the context 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 2023 will be the 40th seminar carrying on this tradition and is devoted to the theme **Copulas — Theory and Applications**. The goal of the seminar is to present and to discuss recent advances of copulas and related functions and their applications in pure and applied fields.

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

- Copula theory
    - From bivariate to multivariate copulas
    - Dependence measures and association
    - Approximation and convergence of copulas
    - Measure theoretic aspects of copulas
    - Copulas in the discrete setting

- Copula applications
    - Applications in pure and applied fields
    - Estimation in the context of copulas
    - Copula methods in Data Science
    - Feature selection

- Relationship to other aggregation functions
    - Triangular (co)norms, implications
    - Uninorms, nullnorms
    - Quasi-copulas, semicopulas
    - Distribution functions

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

- **Irene Gijbels**, Katholieke Universiteit Leuven, Belgium
- **Fang Han**, University of Washington, USA
- **Alfred Müller**, University Siegen, Germany
- **Andrea Zemánková**, Slovak Academy of Sciences, Slovakia

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 an enjoyable 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 time for discussion of each presentation, with follow up round table(s) for discussion of open problems and issues raised in the talks. In particular, young researchers (PhD students, junior post-docs) are encouraged to submit their latest results. Detailed instructions for a possible support through the **EUSFLAT Student Grants Program** are available on the webpage of the seminar.

Please submit your extended abstract (up to 4 pages) by **March 29th, 2023** following the guidelines provided at the webpage of the seminar.

Further Information: **https://www.flll.jku.at/linzseminars**