

LINZ
2022

39th Linz Seminar on Fuzzy Set Theory

**Many-Valued Logics:
Theory and Applications**

Bildungszentrum St. Magdalena, Linz, Austria

June 7-10, 2022

Conference Program

Wednesday, June 8, 2022

- 09:00 am OPENING
- 09:30 am LUCIANO SERAFINI: *Logic Tensor Networks*
- 10:30 am COFFEE BREAK
- 11:00 am PETR CINTULA, CARLES NOGUERA: *The general algebraic framework for Mathematical Fuzzy Logic*
- 11:30 am PAOLO BALDI, PETR CINTULA, CARLES NOGUERA:
Classical and fuzzy two-layered modal logics for uncertainty: translations and proof-theory
- 12:00 pm ANTONÍN DVOŘÁK, MICHAL HOLČAPEK: *New results on fuzzy quantifiers over fuzzy domains*
- 12:30 pm LUNCH
- 02:00 pm SARA UGOLINI: *Duality, unification, and admissibility in the positive fragment of Łukasiewicz logic*
- 02:30 pm TOMMASO FLAMINIO, LLUÍS GODO, MARÍA PAULA MENCHÓN, RICARDO OSCAR RODRIGUEZ:
On the role of Dunn and Fisher Servi axioms in relational frames for Gödel modal logics
- 03:00 pm MARTINA DAŇKOVÁ: *Weighted fuzzy rules for a relational data model*
- 03:30 pm COFFEE BREAK
- 04:00 pm ZUZANA HANIKOVÁ: *A case for constants*

Thursday, June 9, 2022

- 09:00 am GABRIELLA PIGOZZI: *Judgment aggregation. An overview on a logical aggregation problem, from impossibility results to feasible rules*
- 10:00 am ULRICH HÖHLE: *On the algebraic structure of the Q-valued power set*
- 10:30 am COFFEE BREAK
- 11:00 am PATRICK EKLUND, ULRICH HÖHLE: *Finite Quantales and Applications*
- 11:30 am CHRIS FERMÜLLER: *Fuzzy judgment aggregation – background, observations, ideas*
- 12:30 pm LUNCH
- 03:00 pm EXCURSION AND SOCIAL DINNER

Friday, June 10, 2022

- 09:00 am GUILLERMO BADIA, RONALD FAGIN, CARLES NOGUERA:
New foundations of reasoning via real-valued first-order logics
- 10:00 am ARMAN SHAMSGOVARA: *A catalogue of every quantale of order up to 9*
- 10:30 am COFFEE BREAK
- 11:00 am JEFFREY T. DENNISTON, JAN PASEKA, SERGEJS SOLOVJOVS:
Are finite affine topological spaces worthy of study?
- 11:30 am JAN PASEKA, SERGEJS SOLOVJOVS: *Injective hulls in a category of V -semigroups*
- 12:00 pm ANDRE KORNELL, BERT LINDENHOVIUS, MICHAEL MISLOVE: *Quantizing partially ordered structures*
- 12:30 pm LUNCH
- 01:30 pm LIBOR BĚHOUNEK: *Some non-mainstream uses of fuzzy logic*
- 02:30 pm CLOSING