Friedrich-Alexander-Universität
Technische Fakultät

Informatik–Kolloquium SS 2025
Mittwoch, 16.07.25, 16.00 Uhr
H13 Johann-Radon-Hörsaal, Cauerstr.11

Prof. Dr. Peter Sußner

IMECC, University of Campinas, Brasilien

Lattice Computing with L-fuzzy Sets

Lattice theory represents a well-established discipline of abstract algebra and order theory that has found applications in various areas of computer science and engineering. This observation led to the emergence of the technical term "lattice computing" (LC). For the purposes of this presentation, we focus on fuzzy logic (in the broad sense) and mathematical morphology, in particular, methods that employ so-called L-fuzzy sets, where L stands for a partially ordered structure. The advantages of using these (related) L-fuzzy approaches to LC include the capability of modeling and processing imprecision and uncertainty as well as a high degree of interpretability and/or explainability.

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