

Imprecise Probabilities -- A New Paradigm for Statistical Modelling?

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Abstract: Imprecise probabilities claim to provide a substantially broader understanding of uncertainty. The talk discusses how far this also offers new avenues for powerful statistical modelling. We exemplarily consider three prototypic areas: the use of neighborhood-models as a superstructure upon robust statistics, the expressive modelling of prior-data conflict in generalized Bayesian inference and the proper handling of data imprecision.

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