

Fuzzy Data Analysis. Case Studies

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The aim of this talk is to review a series of most interesting results and applications of fuzzy data analysis. After a small introduction in fuzzy sets and its origins, we present various classes of fuzzy robust methods of data analysis. We describe and analyse relevant applications and experiments of fuzzy sets and fuzzy logic, including fuzzy periodical system of chemical elements, robust detection of heteroscedasticity, fuzzy principal components analysis of toxicity in northern Romanian Carpathians Mountains, and a fuzzy model of uninominal elections.

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