Generalized Pareto Copulas: A Key to Multivariate Extremes

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Abstract This talk presents generalized Pareto copulas (GPC), which turn out to be a key to multivariate extreme value theory. Any GPC can be represented in an easy analytic way using a particular type of norm on $\mathbb{R}^d$, called D-norm. The characteristic property of a GPC is its exceedance stability. GPC might help to end the debate: What is a *multivariate* generalized Pareto distribution?

Key words: Domain of attraction, multivariate max-stable distribution, copula, extreme value copula, exceedance stable, generalized Pareto copula, multivariate generalized Pareto distribution

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