



Announcement WiSe 2015/16 Advanced Seminar

Families of multivariate distributions

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- Content:** In this seminar we discuss interesting families of multivariate probability distributions that are not covered in typical introductory lectures on multivariate probability laws or copulas. These families either arise from a specific application or constitute a certain construction principle. Depending on the considered family, the investigation involves the estimation, simulation, or calibration of the discussed probability law as well as its implementation in a real world application.
- Continued next Semester:** No
- Audience:** max. 6 Master students
- Prerequisite:** MA 5715 (Financial Engineering with Copulas) or MA 5408 (Statistical Modelling with Copulas)
- Literature:**
H. Joe (1997): Multivariate Models and Dependence Concepts, Chapman and Hall/CRC, London.
J.-F. Mai, M. Scherer (2012): Simulating copulas: Stochastic models, simulation algorithms, and applications, Imperial College Press.
J.-F. Mai, M. Scherer (2014): Financial Engineering with Copulas Explained, Palgrave. A.J. McNeil, R. Frey, P. Embrechts (2005): Quantitative Risk Management, Princeton University Press, Princeton, New Jersey.
R.B. Nelsen (2006): An Introduction to Copulas, second edition, Springer, New York.
- Certificate:** 3 CP
- Seminar information:** For further information on the preliminary meeting to the seminar (Seminarvorbereitung).