New copulas based on general partitions-of-unity and their applications to risk management
Dietmar Pfeifer, Hervé Awoum Lac Tsatedem, Andreas Mändle, Côme Girschig
University of Oldenburg, Germany and École Nationale des Ponts et Chaussées, Paris

Abstract: We construct new multivariate copulas on the basis of a generalized countably infinite partition-of-unity approach. This approach allows - in contrast to finite partition-of-unity copulas - for tail-dependence as well as for asymmetry. A possibility of fitting such copulas to real data from quantitative risk management is also pointed out.

References: