



Universität Ulm | 89069 Ulm | Germany

Fakultät für Mathematik und
Wirtschaftswissenschaften
Institut für Stochastik

Professor Dr. Volker Schmidt

Helmholtzstraße 18
89081 Ulm, Germany

Tel: +49 731 50-23532
Fax: +49 731 50-23649
volker.schmidt@uni-ulm.de
<http://www.uni-ulm.de/stochastik/>

Einladung zum Vortrag

von

14. November 2012

Dr. Zdravko Botev

UNIVERSITY OF NEW SOUTH WALES, SYDNEY, AUSTRALIA

Dependent failures in reliability networks

Static network reliability models typically assume that the failures of their components are independent. This assumption allows for the design of efficient Monte Carlo algorithms that can estimate the network reliability in settings where it is a rare-event probability. Despite this computational benefit, independent component failures is frequently not a realistic modeling assumption for real-life networks. In this talk we show how the splitting method for rare-event simulation can be used to estimate the reliability of a network model that incorporates a realistic dependence structure via the Marshal-Olkin copula.

Termin: Dienstag, 04. Dezember 2012, 17 Uhr, c.t.

Ort: Universität Ulm, Helmholtzstr. 18, Raum 220

Der Vortrag findet im Rahmen des Mathematischen Kolloquiums statt.
Interessenten sind herzlich eingeladen.

gez. V. Schmidt