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SEMINAR	INSTITUTE OF
ANNOUNCEMENT	INSURANCE SCIENCE

In the summer term 2017 Prof. Dr. An Chen and Dr. Matthias Börger are going to offer the following seminar:

Special aspects of insurance economics (Master)

Content

In this seminar, we are going to focus on some topics in **life insurance**. We are specifically **mortality and longevity risk**. The seminar is based on scientific papers that summarize recent results in this area.

Target group

The seminar is suitable for Master students in *Wirtschaftsmathematik* or *Wirtschafts-wissenschaften* or finance. Previous knowledge in *Personenversicherungsmathematik*, *Insurance Economics* and *Finanzmathematik 1* are helpful.

Seminar performance

The seminar performance consists of three parts:
- A seminar presentation about a selected topic with a presentation of the results and some application examples and the moderation of the following discussion. Duration of the presentation: 90 minutes (including discussion). The topics of the presentations are generally assigned to groups of participants.
  The presentation is a performance of the whole group.
- A written formulation of the presentation documents as a support for the participants of a maximum length of three pages.
  Delivery of the presentation documents: at least one week before the presentation via e-mail to an.chen@uni-ulm.de. The creation of the presentation documents is a performance of the whole group.
- Active participation in this seminar.

Seminar date

This seminar takes place as a block seminar. The attendance at all seminar dates is required.

Possible topics

1. Missov, Lenart, Nemeth, Canudas-Romo, Vaupel: The Compertz force of mortality in terms of the modal age at death (Demographic Research, 32: 1031-1048, 2015)
2. Avraam, de Magalhaes, Vasiev: A mathematical model of mortality dynamics across the lifespan combining heterogeneity and stochastic effects (Experimental Gerontology, 48: 801-811, 2013)
3. de Jong, Tickle, Xu: Coherent modeling of male and female mortality using Lee-Carter in a complex number framework (IME, 71: 130-137, 2016)
4. Fleischmann: Calibrating intensities for long-term care multiple-state Markov insurance model (EuAJ, 5: 327-354, 2015)
5. Arnold-Gaille, Sherris: International cause-specific mortality rates: New insights from a cointegration analysis (ASTIN Bulletin, 46: 9-38, 2016)
6. Barsotti, Milhaud, Salhi: Lapse risk in life insurance: Correlation and contagion effects among policyholders' behaviors (IME, 71: 317-331, 2016)
7. Huang, Milevsky: Spending Retirement on Planet Vulcan: The Impact of Longevity Risk Aversion on Optimal Withdrawal Rates, *(*Financial Analyst Journa*l,* 67(2), 45-58, March/April 2011).
8. Olivieri, Pitacco: Stochastic mortality: The impact on target capital, (ASTIN Bulletin, 39(2), 541-563, 2009).

Registration

Seminar seats will be allocated by the **new, web-based** software for all economics institutes in Ulm. Please sign-up and then log-in with your Ulm University email address here:

http://www.econulm.de:3838/semapps/stud_en/
(English version)

http://www.econulm.de:3838/semapps/stud_de/
(German version)

You can enter there your preferences over seminars from 21.01.2017 to 29.01.2017.

Further information

If you have any questions, please contact
- Prof. Dr. An Chen (email: an.chen@uni-ulm.de)
- Dr Mattahias Börger (email: M.Boerger@ifa-ulm.de)

or visit the homepage of the Institute of Insurance Science http://www.uni-ulm.de/ivw.