

The Center for Statistics in Oldenburg and Bremen (ZeSOB) organizes its second

## Methods Week in Statistics

from September 20<sup>th</sup> to September 23<sup>rd</sup>, 2017, at the  
University of Oldenburg, Campus Wechloy, room W01 0-012, on the topic:

### “Robust Statistics and Outlier Detection”

The course is targeted to practitioners and application-oriented statisticians. We will present a variety of procedures for outlier detection, robust alternatives to classical procedures, and corresponding diagnostics, together with their software implementations and their methodological background. Focus will be on applications and on the appropriate choice of methods for concrete model classes and problems. The detailed program is given on the back side.

#### Lecturers:

Peter Ruckdeschel, University of Oldenburg  
Valentin Todorov, UNIDO Vienna

#### Registration fees:

Bachelor and master students:	free of charge
Academic attendees (including doctoral researchers):	30€
Non-academic attendees:	100€

The registration fee covers course material (slides in PDF format for password-protected download), as well as drinks and snacks during the coffee breaks.

Bachelor and master students register via an email to [kornelius.rohmeyer@uni-oldenburg.de](mailto:kornelius.rohmeyer@uni-oldenburg.de) specifying *name*, *undergraduate degree programme*, and *university* of the attendee. Registration for those with fees is done on the web-page

<https://emt.uni-oldenburg.de/plugins.php/> [line break/ URL to be continued]  
[registrationemtpuginplugin/registration/courses.php?set\\_id=27e5c300ac48a36a14f59de8f4dc8c03](https://emt.uni-oldenburg.de/plugins.php/registration/plugin/plugin/registration/courses.php?set_id=27e5c300ac48a36a14f59de8f4dc8c03)

until **Monday, September 11<sup>th</sup>, 2017.**

**Program of the 2<sup>nd</sup> ZeSOB Methods Week in Statistics**  
**on Robust Statistics and Outlier Detection:**

**Wednesday, Sep 20<sup>th</sup> 2017**

13.45h	Welcome (ZeSOB team)
14.00h – 17.00h (with 30 minutes coffee break)	Introduction to Robust Statistics (PR)

**Thursday, Sep 21<sup>st</sup> 2017**

09.00h – 12:30h (with 30 minutes coffee break)	Hands-on with data examples and R packages on Robust Statistics (PR&VT)
12.30h – 14.00h	Lunch break
14.00h – 17.00h (with 30 minutes coffee break)	Robust Statistics for Multivariate Data and Regression (VT)
18.00h – 22.00h	Dinner in “Drögen Hasen” (approx. 15 minutes walk)

**Friday, Sep 22<sup>nd</sup> 2017**

09.00h – 12.30h (with 30 minutes coffee break)	Hands-on R data examples, diagnostics packages on Robust Statistics (VT)
12.30h – 14.00h	Lunch break
14.00h – 17.00h (with 30 minutes coffee break)	Influence Curve Based Diagnostics (PR)

**Saturday, Sep. 23<sup>rd</sup> 2017**

09.00h – 12.30h (with 30 minutes coffee break)	Robustness in Time Series Context (PR)
12.30h – 14.00h	Lunch at “Ali Baba’s” (optional)