Program

2. joint Statistical Meeting Deutsche Arbeitsgemeinschaft Statistik „Statistics under one umbrella“

+ 56. Biometrisches Kolloquium

Pfingsttagung der Deutschen Statistischen Gesellschaft

March 23–26, 2010
Dear colleagues, students, teachers, and friends of the statistical sciences,

we warmly welcome you to the conference DAGStat2010, the 2nd joint Statistical Meeting of the DAGStat (Deutsche Arbeitsgemeinschaft Statistik) “Statistics under one umbrella”. DAGStat2010 includes the 56th Biometrisches Kolloquium of the German Region of the International Biometric Society (IBS-DR) and the Spring Meeting (Pfingsttagung) of the Deutsche Statistische Gesellschaft (DStatG). On the agenda of this conference you find contributions from a total of thirteen specialized societies of the DAGStat.

After the great success of the first joint Statistical Meeting DAGStat2007 in Bielefeld the idea of statisticians from various fields in theory and application coming together in a joint Statistical Meeting is now becoming established. After more than 600 participants in 2007 now more than 800 participants from 28 countries and 6 continents will attend the DAGStat2010 conference.

A total of 341 talks and 49 posters will be presented. They cover a great variety of aspects of theoretical and applied statistics. Practical problems in medicine, economy or engineering may often be dealt with by applying similar statistical methods. In this respect the aim of the conference is to encourage an intensive and fruitful scientific communication between statisticians working in different fields. This is well represented by the 27 sections of the conference organized by 42 section chairs.

The DAGStat2010 conference has several particularities. “Statistics in Practice” is a new feature of the Biometrisches Kolloquium. This “life long learning session” presents recent theoretical research put into practice. Further, on one day, there is a section of lectures especially for statisticians working in the industry, intended to intensify the exchange of information between industry and science. On another day, talks and workshops are organized especially for school teachers. The student mixer provides an opportunity for an exchange between students and young and experienced researchers in a relaxed atmosphere. The event will include an entertaining quiz about statistics. The program is rounded off by three tutorials.

The city of Dortmund is the biggest city of the Ruhr area. Among the biggest cities of Germany Dortmund is in the seventh place. This makes it an important place for congresses and fairs. Besides the scientific program we offer a variety of social events, including a visit of a famous brewery and a guided tour through the Signal-Iduna-Park, the stadium of Borussia Dortmund. Finally, in 2010, the whole Ruhr area is European Capital of Culture such that you will find various additional entertainment facilities.

We wish you a pleasant stay at Dortmund and an interesting and stimulating conference.

Jörg Rahnenführer
Local Organizer of DAGStat2010
Dear participants,

the Deutsche Arbeitsgemeinschaft Statistik (DAGStat) was founded in 2005 with the intention to foster the collaboration and interaction within the German statistical community and to generally increase the public awareness about statistics. In 2007 the first joint statistical meeting in Germany took successfully place in Bielefeld. Now, five years after its foundation and three years after the first joint meeting we celebrate the second DAGStat conference in Dortmund. This year’s conference program is impressively versatile and the list of invited speakers is outstanding. Without a doubt, the conference is an inspiring scientific event for all statisticians and it mirrors the respectable state of the German statistical community. The conference embodies also the Pfingsttagung of the German Statistical Society as well as the Biometrisches Kolloquium of the German region of the International Biometrical Society. This reflects and guarantees a wide range of statistical aspects, from econometrics to biometrics, from theoretical foundations to practical experiences.

When planning the DAGStat conference in 2007 in Bielefeld we decided upon the conference name “Statistik unter einem Dach” which literally means “Statistics under one umbrella roof”. The name was motivated by the peculiar architecture of the University Bielefeld. This year, we kept the title because of the prosperous developments within the German statistical community in the last years which took place under the umbrella of the DAGStat. This conference is the best proof for an active field and we are looking forward to having the second Joint German Statistical Meeting.

Of particular importance for the esteem and reputation of statistics is the interface of our discipline with “real world problems”. Here, statistics can contribute to lead to useful and reasonable decisions based on data. In this respect it is commendable to have an industry day during this conference. This allows bringing applicants and practitioners together with statisticians, which is of fundamental importance for both sides. In the same way, statistics can only gain a respectful reputation within the society if the statistical education and training in school is of high but comprehensible level. The teachers’ day during the conference accommodates this aspect.

All in all, the conference is a milestone and you can and should take the opportunity to benefit from it, enjoy it and celebrate statistics under one umbrella roof.

Göran Kauermann
Karl Mosler
Deutsche Arbeitsgemeinschaft Statistik
Dear colleagues,

Statistics is an integral part of science. The importance of statistics has, over the years, strongly increased in different areas of research as well as in commercial and industrial areas. When looking at the program, I am happy to see that this diversity is fully reflected in this conference, the DAGStat 2010.

At the same time, this conference also hosts the 56. Biometrisches Kolloquium of the German Region of the International Biometric Society. For this reason, biometry, in all its diversity, plays an important role at this conference; this is indicated by several sessions that are organized by members of our society.

Many of the presentations are of theoretical nature. This conference combines these with a multitude of applied talks and seminars, for which distinguished presenters could be attracted. Indeed, I think that this is a necessary combination to foster innovation. Statistics as a whole benefits from the connection between theory and application. At this conference for the first time, the German Region of the International Biometric Society has sponsored a complete session devoted to “Statistics in Practice”. These sessions will be devoted to one particular subject. At the DAGStat 2010, statistical modeling with missing data using multiple imputation will be dealt with in depth. We aim to repeat such sessions at each of our yearly conferences to cultivate the idea of putting recently developed theory into practice. Thus, we intend to provide a bridge between theoretical and applied research, and the direct application of this research.

I encourage you to use this conference to broaden your view by looking at different, perhaps unfamiliar fields and applications of statistics at this conference, which unites so many different topics from a large amount of areas within statistics. Use the opportunity to exchange ideas, interact with old and new colleagues enjoy the conference.

Richardus Vonk
President, German Region of the International Biometric Society.
Dear DAGStat participants,

Statistics is a powerful science, it alone can rewrite the calendar: Whitsun falls in March again this year, exactly as it did in 2007. Well, at least it does for the German Statistical Society, as it will be participating in the second DAGStat conference again with its Whitsun meeting.

The first DAGStat conference in 2007 was a great success one which could be measured not only by the number of participants, but also more importantly, by its scientific value. A glance at the enrolment numbers and at the conference programme clearly indicates that DAGStat 2010 promises yet again to be a climax of the year for specialists. The German Statistical Society is very happy to be able to contribute to such an outstanding programme.

Statistics is a science which, based upon a demanding and stringent methodology, affects almost all sciences and society itself. It contributes to the understanding of many present-day problems. That is what makes such a conference so varied and exciting. The main emphasis lies in the further development of the subject, and by inviting numerous distinguished guest-speakers, it also promises to make attending such a conference a unique intellectual adventure.

In addition to the scientific programme, we are holding our own events dedicated to the transfer and practical application of statistics. It is the first time that an “Industry Day” is taking place, offering tutorials on special applied fields of statistics in industrial practice. As statistics in natural sciences and technology have traditionally always played an important role in the German Statistical Society, the DStatG has a considerable stake in this.

A separate section “Statistics and the General Public” assesses the considerable importance of statistics in society. In the light of this importance it is desirable to have at least a basic understanding of statistics in today's world. This brings school teaching into our field of vision, here “Teachers Day” seeks to offer new ideas. Finally the tutorials on Monday ought to be mentioned, in which through contact with leading professional representatives you can complement or add to your methodological practices.

Whichever events you wish to take part in, I wish you an eventful and successful conference, from which you will certainly take many valuable stimuli for your future work projects.

Wilfried Seidel
President of the German Statistical Society
Scientific committee

Chairs:

Conference Management for the IBS-DR  
Richardus Vonk  
*Bayer Schering Pharma AG*

Conference Management for the DStatG  
Wilfried Seidel  
*Helmut-Schmidt-Universität Hamburg*

Local Organization  
Jörg Rahnenführer  
*Technische Universität Dortmund*

Committee:

Rolf Biehler  
*Universität Paderborn*

Jürgen Chlumsky  
*Statistisches Bundesamt Deutschland*

Jürgen Flöthmann  
*Universität Bielefeld*

Tim Friede  
*University of Warwick*

Heinz Holling  
*Westfälische Wilhelms-Universität Münster*

Katja Ickstadt  
*Technische Universität Dortmund*

Göran Kauermann  
*Universität Bielefeld*

Walter Krämer  
*Technische Universität Dortmund*

Karl Mosler  
*Universität zu Köln*

Dirk Taeger  
*IPA Bochum*

Claus Weihs  
*Technische Universität Dortmund*

Local organizing committee

Jörg Rahnenführer  •  Matthias Borowski  •  Evgenia Freis  •  Kai Kammers  •  Katrin Knies  •  Sandra Ligges  •  Uwe Ligges  •  Sabine Mersmann  •  Christian Netzer  •  Julia Schiffner  •  Ronja Walter  •  Sabine Willrich
Sessions and their organizers

Regression Models
Thomas Kneib (Universität Oldenburg), Ludwig Fahrmeir (LMU München), Johannes Dreesman (Niedersächsisches Landesgesundheitsamt)

Time Series Analysis
Philipp Sibbertsen (Universität Hannover), Jens-Peter Kreiß (TU Braunschweig)

Clustering and Classification Rules
Claus Weihs (TU Dortmund), Reinhold Decker (Universität Bielefeld)

Multivariate Data Analysis
Karl Mosler (Universität zu Köln)

Design of Experiments
Joachim Kunert (TU Dortmund), Holger Dette (Universität Bochum)

Data Preprocessing
Andreas Ziegler (Universität zu Lübeck)

Robust Statistics
Andreas Christmann (Universität Bayreuth)

Non-Parametric and Semiparametric Statistics
Enno Mammen (Universität Mannheim), Alois Kneip (Universität Bonn)

Bayesian Methods
Katja Ickstadt (TU Dortmund)

Clinical Trials
Richardus Vonk (Bayer Schering)

Survival Analysis
Waltraud Kahle (Universität Magdeburg), Jan Beyersmann (Universität Freiburg)

Statistical Methods in Medicine and Epidemiology
Jürgen Wellmann (Universität Münster), Ralf Bender (IQWIG)

Statistical Methods in Bioinformatics
Achim Tresch (LMU München)

Computational Statistics
Uwe Ligges (TU Dortmund), Torsten Hothorn (LMU München)
Microeconometrics and Econometric Policy Evaluation
  Olaf Hübler (Universität Hannover)

Empirical Finance
  Wolfgang Härdle (Humboldt-Universität Berlin)

Risk Analysis
  Alfred Müller (Universität Siegen)

Industrial Statistics
  Sven Knoth (Helmut-Schmidt-Universität Hamburg)

Signal Analysis
  Rainer Martin (Universität Bochum)

Survey Statistics
  Jürgen Chlumsky (Statistisches Bundesamt)

Item-Response Modeling
  Christof Schuster (Universität Gießen), Heinz Holling (Universität Münster)

Structural Equation Modeling
  Rolf Steyer (Universität Jena)

Demography
  Jürgen Flöthmann (Universität Bielefeld)

Image Recognition and Visualization
  Adalbert Wilhelm (Jacobs University Bremen)

Education and Professional Development in Statistics
  Joachim Engel (Pädagogische Hochschule Ludwigsburg), Ulrich Rendtel (Freie Universität Berlin)

Statistical Consulting
  Göran Kauermann (Universität Bielefeld)

Statistics and the General Public
  Walter Krämer (TU Dortmund), Markus Zwick (Statistisches Bundesamt)

Open Topics
  Jörg Rahnenführer (TU Dortmund)

Empirical Educational Research
  Sigbert Klinke (Humboldt-Universität zu Berlin), Olga Zlatkin-Troitschanskaia (Universität Mainz)
Conference place

The conference takes place in the highest building (Maths building) on the campus and in HG II (Hörsaalgebäude II). Address: Vogelpothsweg 87, 44227 Dortmund.
How to get there

**By train:**
From “Dortmund Hauptbahnhof” (main station) take the S1 (platform 7), direction Düsseldorf, and you arrive at “Dortmund Universität” after 7 minutes. You need a Price Zone A (2.30 EUR) ticket for local transport within Dortmund. Don’t forget to stamp it in one of the orange machines (before you board the train!).

**By car:**
The best motorway exit you find on the A 45 is “Dortmund-Eichlinghofen” and on the B 1 / A 40 “Dortmund-Dorstfeld”. There are signs at both exits leading you to the university. Follow the signs leading to “Campus Nord”.

WLAN access and computer labs

WLAN access is available in the conference buildings.

1. Participants of universities that take part at the “eduroam” network can simply access the “eduroam” WLAN with their home university’s account.

2. For all other participants or if connect to "eduroam" fails:
   - Connect to WLAN “ITMC-Gast” (unencrypted)
   - Open an arbitrary web page in your preferred web browser, you will be redirected to a Web Authentication form
   - Log in using
     User Name: dagstat
     Password: dagstat2010

Computer labs are available in the Maths building:

- basement: M/U18, M/U26
- 7th floor: M 711

Aussteller

- Cornelsen Verlag GmbH [http://www.cornelsen.de](http://www.cornelsen.de)
- Dittrich & Partner Consulting GmbH [http://www.dpc.de](http://www.dpc.de)
- Information Works GmbH [http://www.information-works.de](http://www.information-works.de)
- Springer-Verlag GmbH [http://www.springer.com](http://www.springer.com)
Social program

In addition to the scientific program the following social program is offered. Accompanying persons are also warmly invited to participate in these events.

The rates for these events are not included in the conference fee. Bookings can be carried out via the conference registration tool.

Monday, March 22nd, 2010: Hövels House Brewery
From 6 pm to 8 pm a guided brewery tour including a beer test takes place in the Hövels Hausbrauerei. Afterwards the opportunity is provided to have dinner in the more than 150 years old brewery.

Cost per capita: 19.50 EUR

Tuesday, March 23rd, 2010: City Hall Reception
The city of Dortmund holds an official reception to all conference participants in the town hall at 7:30 pm.

Cost per capita: 0 EUR

Wednesday, March 24th, 2010: Student Mixer
At 7:30 pm a student mixer will provide the opportunity for an exchange between students and young and experienced researchers in a relaxed atmosphere. The event will include an entertaining quiz about statistics.

Cost per capita: 10 EUR (Student: 5 EUR)

Thursday, March 25th, 2010: Signal-Iduna-Park
Dortmund is proud of its soccer club BVB. At 6 pm a one-hour guided tour in English will start in the BVB’s home stadium, the Signal-Iduna-Park (formerly named Westfalenstadion).

Cost per capita: 9 EUR

Thursday, March 25th, 2010: Conference Dinner
At 7:30 pm the conference dinner will start in the Goldsaal of the exhibition halls of Dortmund (Dortmunder Westfalenhallen) which are close to the stadium. Fee includes dinner and a wide range of alcoholic and non-alcoholic drinks.

Cost per capita: 50 EUR
Invited speakers

Plenary Talks:

Joshua Angrist Massachusetts Institute of Technology, Cambridge, USA
Jim Berger Duke University, Durham, North Carolina, USA
Holger Dette Ruhr-Universität Bochum, Germany
Hans Schneeweiß LMU Munich, Germany
Nanny Wermuth Chalmers University of Technology and Göteborg University, Sweden

Invited Speakers of the IBS-DR:

Werner Brannath Medical University of Vienna, Austria
James Carpenter University of London, UK
Jutta Gampe Max Planck Institute for Demographic Research, Rostock, Germany
Andy Grieve King’s College London, UK
Wei Liu University of Southampton, UK
Paulo Ribeiro São Paulo, Brazil

Invited Speakers of Fachgruppe Stochastik:

Tilmann Gneiting University of Heidelberg, Germany
Natalie Neumeyer University of Hamburg, Germany

Invited Speakers in the Sections:

Stefan Van Aelst Ghent University, Belgium
Enrico Biffis Imperial College London, UK
Hans Wolfgang Brachinger University of Fribourg, Switzerland
Ying Chen National University of Singapore
Torbjørn Eltoft University of Tromsø, Norway
Horst Entorf  Goethe University of Frankfurt, Germany
Maxim Finkelstein  University of the Free State, Bloemfontein, South Africa
Arndt von Haeseler  Center for Integrative Bioinformatics Vienna, Austria
Enrique ter Horst  IESA School of Management, Caracas, Venezuela
Shih-Feng Huang  National University of Kaohsiung, Taiwan
Jye-Chyi (JC) Lu  Georgia Institute of Technology, Atlanta, USA
Ralf Münich  University of Trier, Germany
Hannu Oja  University of Tampere, Finland
Hein Putter  Leiden University Medical Center, The Netherlands
Thomas J. Santner  Ohio State University, Columbus, USA
Dag Bjarne Tjøstheim  University of Bergen, Norway
Rosanna Verde  Seconda Università di Napoli, Italy
Anne Whitehead  Lancaster University, UK
Thomas F. Wienker  IMBIE, University of Bonn, Germany
Achim Zeileis  Vienna University of Economics and Business, Austria

Wahlen und Kommissionen während der DAGStat2010

Vorstandswahl der IBS-DR  Ralf Bender
Zeit: Mi, 24.03.2010, 12:00 – 16:00  Raum: M/E 27

Zertifikatskommission Medizinische Biometrie  Ulrich Mansmann
Zeit: Mi, 24.03.2010, 14:00 – 17:00  Raum: M/E 25

Fachausschuss Biometrie  Ralf-Dieter Hilgers
Zeit: Do, 25.03.2010, 12:00 – 13:00  Raum: M/E 27
Life-Long Learning Session: Statistics in Practice

The following session, consisting of two 80 minute presentations, will discuss the issues raised by missing data and how these can be addressed using multiple imputation. The aim is that at the end participants will have the confidence necessary to apply multiple imputation in their own work. Although we will touch on randomised clinical trials (where missing data occur mostly in the response), our main focus will be on observational data (where missing data occur in both response and covariates).

Handling of Missing Data

James Carpenter, University of London, UK

Room: M/E 28
Friday, March 26th, 8:50 – 12:00

Tutorials

The following three tutorials will take place on the day before the start of the conference (22 March 2010) from 10 am to 5 pm. The registration for the tutorials can be made via the conference registration tool.

Tutorial 1: My first R package

Uwe Ligges, Fakultät Statistik, TU Dortmund

Room: M/E 21

Tutorial 2: Fallzahlplanung und Fallzahladjustierung in klinischen Studien

Tim Friede, Health Sciences Research Institute, Warwick Medical School, University of Warwick
Meinhard Kieser, Institut für Medizinische Biometrie und Informatik, Universitätsklinikum Heidelberg

Room: M/E 19

Tutorial 3: New Bayesian Methods for Model Comparison

Murray Aitkin, Department of Mathematics and Statistics, University of Melbourne

Room: M/E 23
**Industrietag**

Der Industrietag im Rahmen der zweiten gemeinsamen Tagung der Deutschen Arbeitsgemeinschaft Statistik (DAGStat) findet am Mittwoch, den 24. März 2010 von 8:50 Uhr bis 18:00 Uhr im Raum M/E 19 statt. Dieser erstmalig stattfindende Industrietag besteht aus Tutorien zu typischen Anwendungsfeldern der Statistik in der industriellen Praxis. Teilnahmeberechtigt ist jeder regulär bei der Konferenz registrierte Teilnehmer.

**Programm**

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<th>Zeit</th>
<th>Veranstaltung</th>
<th>Referent</th>
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<td>8:50 – 10:10</td>
<td>Versuchsplanung (DOE)</td>
<td>C. Weihs (TU Dortmund)</td>
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<tr>
<td>10:10 – 10:40</td>
<td>Kaffeepause</td>
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<tr>
<td>10:40 – 12:00</td>
<td>Messunsicherheit (MSA oder GR&amp;R)</td>
<td>P.-T. Wilrich (FU Berlin)</td>
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<td>12:00 – 13:00</td>
<td>Mittagspause</td>
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<td>13:00 – 13:30</td>
<td>Quality Assurance and Auditing in Biostatistics</td>
<td>U. Haag (HaaPACS GmbH)</td>
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<td>13:30 – 14:30</td>
<td>Plenarvortrag</td>
<td>Joshua Angrist</td>
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<tr>
<td>14:40 – 16:00</td>
<td>Statistische Prozesskontrolle (SPC)</td>
<td>S. Knoth (HSU Hamburg)</td>
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<td>16:00 – 16:30</td>
<td>Kaffeepause</td>
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<tr>
<td>16:30 – 18:00</td>
<td>Adaptive Designs in klinischen Studien</td>
<td>G. Wassmer und R. Eisebitt (ADDPLAN GmbH)</td>
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Lehrertag


Programm

14:00 – 14:15 Begrüßung

14:15 – 15:00 “Je größer die Wurfanzahl, desto sicherer die Wette”. Ein vorstellungsorientierter Zugang zum Zufallsbegriff

   Stephan Hußmann

15:00 – 15:45 Neukonzeption der Stochastik in der Gymnasialen Oberstufe (G8)

   Wolfgang Riemer

15:45 – 16:15 Kaffepause

16:15 – 17:45 Parallele Workshops

Parallele Workshops des Lehrertags

1 Statistik aus der Zeitung

   Heinz Böer

   Raum: CDI 120

2 Welcher Frosch hüpfst am Besten: Experimente und Datenanalysen im MU

   Andreas Eichler/ Marcus Vogel

   Raum: M 411

3 “Konfidenzintervalle: Alles klar, oder voller Tücken?”

   Raimund Vehling

   Raum: CDI 121

4 Von Daten zur Funktion: Vernetzungen zwischen Stochastik, Algebra und Analysis

   Joachim Engel

   Raum: M 433
Sitzungen der AGs der IBS-DR und der GMDS während der DAGStat2010

Treffen der AG-Leiter
Zeit: Di, 23.03.2010, 12:00 – 13:00
Raum: M/E 25

Nichtparametrische Methoden
Zeit: Di, 23.03.2010, 13:00 – 13:30
Raum: HG II – HS 7

Räumliche Statistik
Zeit: Di, 23.03.2010, 17:30 – 18:00
Raum: M/E 23

Statistische Methoden in der Medizin & Statistische Methoden in der Epidemiologie
Zeit: Di, 23.03.2010, 17:30 – 18:30
Raum: M/E 25

Nachwuchs
Zeit: Mi, 24.03.2010, 12:00 – 13:00
Raum: M/E 21

Statistical Computing
Zeit: Mi, 24.03.2010, 12:00 – 13:00
Raum: M/E 25

Landwirtschaftliches Versuchswesen
Zeit: Mi, 24.03.2010, 12:30 – 13:30
Raum: M/E 23

AK Humangenetik
Zeit: Mi, 24.03.2010, 16:30 – 17:30
Raum: M/E 23

Pharmazeutische Forschung
Zeit: Do, 25.03.2010, 12:00 – 13:00
Raum: M/E 23

Populationsgenetik und Genomanalyse
Zeit: Do, 25.03.2010, 12:00 – 13.00
Raum: M/E 25

Statistische Methoden in der Bioinformatik
Zeit: Do, 25.03.2010, 12.00 – 13.00
Raum: M/E 29

Bayes–Methodik
Zeit: Do, 25.03.2010, 12:00 – 13:00
Raum: HG II – HS 6
Overview
### Tuesday, March 23rd

**08:50 Parallel Sessions I**

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<th>Title</th>
<th>Venue</th>
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<td>SA01</td>
<td>Survival Analysis</td>
<td>M/E 28</td>
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<tr>
<td>SMiMaE01</td>
<td>Statistical Methods in Medicine and Epidemiology</td>
<td>M/E 29</td>
</tr>
<tr>
<td>SEM01</td>
<td>Structural Equation Modeling</td>
<td>Audimax</td>
</tr>
<tr>
<td>RM01</td>
<td>Regression Models</td>
<td>HG II–HS 2</td>
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<tr>
<td>RA01</td>
<td>Risk Analysis</td>
<td>HG II–HS 3</td>
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<tr>
<td>IRaV01</td>
<td>Image Recognition and Visualization</td>
<td>HG II–HS 5</td>
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<tr>
<td>TSA01</td>
<td>Time Series Analysis</td>
<td>HG II–HS 6</td>
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<tr>
<td>NPS01</td>
<td>Non-Parametric and Semiparametric Statistics</td>
<td>HG II–HS 7</td>
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**10:10 Break**

**10:40 Plenary Session I**

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<td>Plenary01</td>
<td>Opening and Plenary Talk (Holger Dette)</td>
<td>Audimax</td>
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**12:00 Break and Meetings**

**13:30 Parallel Sessions II**

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<th>Session</th>
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<tr>
<td>SA02</td>
<td>Survival Analysis</td>
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<tr>
<td>SMiBI01</td>
<td>Statistical Methods in Bioinformatics</td>
<td>M/E 29</td>
</tr>
<tr>
<td>SMiMaE02</td>
<td>Statistical Methods in Medicine and Epidemiology</td>
<td>Audimax</td>
</tr>
<tr>
<td>SS01</td>
<td>Survey Statistics</td>
<td>HG II–HS 2</td>
</tr>
<tr>
<td>RM02</td>
<td>Regression Models</td>
<td>HG II–HS 3</td>
</tr>
<tr>
<td>IRaV02</td>
<td>Image Recognition and Visualization</td>
<td>HG II–HS 5</td>
</tr>
<tr>
<td>OT01</td>
<td>Open Topics</td>
<td>HG II–HS 6</td>
</tr>
<tr>
<td>NPS01</td>
<td>Non-Parametric and Semiparametric Statistics</td>
<td>HG II–HS 7</td>
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<td>M/E 19</td>
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</tbody>
</table>
### 14:40 Parallel Sessions III

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Location</th>
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<tbody>
<tr>
<td>SA03</td>
<td>Survival Analysis</td>
<td>M/E 28</td>
</tr>
<tr>
<td>SMiBI02</td>
<td>Statistical Methods in Bioinformatics</td>
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<td>SMiMaE03</td>
<td>Statistical Methods in Medicine and Epidemiology</td>
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<td>SS02</td>
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<td>RA02</td>
<td>Risk Analysis</td>
<td>HG II–HS 5</td>
</tr>
<tr>
<td>TSA02</td>
<td>Time Series Analysis</td>
<td>HG II–HS 6</td>
</tr>
<tr>
<td>OT02</td>
<td>Open Topics</td>
<td>HG II–HS 7</td>
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**15:40 Break**

### 16:10 Parallel Sessions IV

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>SA04</td>
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<td>OT03</td>
<td>Open Topics</td>
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<tr>
<td>SMiMaE04</td>
<td>Statistical Methods in Medicine and Epidemiology</td>
<td>Audimax</td>
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<tr>
<td>MMiAS01</td>
<td>Mixed Models in Agricultural Sciences</td>
<td>HG II–HS 2</td>
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<tr>
<td>RM04</td>
<td>Regression Models</td>
<td>HG II–HS 3</td>
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<tr>
<td>IS02</td>
<td>Industrial Statistics</td>
<td>HG II–HS 4</td>
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<tr>
<td>SatGP01</td>
<td>Statistics and the General Public</td>
<td>HG II–HS 5</td>
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<tr>
<td>NPS03</td>
<td>Non-Parametric and Semiparametric Statistics</td>
<td>HG II–HS 7</td>
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<tr>
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**19:30 Social Program: City hall Reception**
**Wednesday, March 24th**

### 08:50 Parallel Sessions V

<table>
<thead>
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<td>SMiMaE05</td>
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<td>CT01</td>
<td>Clinical Trials</td>
<td>Audimax</td>
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<tr>
<td>IRM01</td>
<td>Item-Response Modeling</td>
<td>HG II–HS 2</td>
</tr>
<tr>
<td>RM05</td>
<td>Regression Models</td>
<td>HG II–HS 3</td>
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<td>Metanalysis</td>
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<td>Risk Analysis</td>
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<td>DoE01</td>
<td>Design of Experiments</td>
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<td>Robust Statistics</td>
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<tr>
<td>I-Day01</td>
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### 10:10 Break

### 10:40 Parallel Sessions VI

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<td>SA06</td>
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<td>SMiBIE03</td>
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<td>Clinical Trials</td>
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<td>IRM02</td>
<td>Item-Response Modeling</td>
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<td>RM06</td>
<td>Regression Models</td>
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<td>SC01</td>
<td>Statistical Consulting</td>
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<td>EF01</td>
<td>Empirical Finance</td>
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<td>I-Day02</td>
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### 12:00 Break and Meetings

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>I-Day03</td>
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13:30 Plenary Session II

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<tbody>
<tr>
<td>Plenary02</td>
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14:40 Parallel Sessions VII

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<tr>
<td>SA07</td>
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<td>D01</td>
<td>Demography</td>
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16:30 Plenary Session III

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<tr>
<td>Plenary03</td>
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17:30 Poster Presentation

19:30 Social Program: Student Mixer

Mensa building
Thursday, March 25th

08:50 Parallel Sessions VIII

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<thead>
<tr>
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<td>Education and Professional Development in Statistics</td>
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10:10 Break

10:40 Parallel Sessions IX

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<td>EaPSiS02</td>
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12:00 Break and Meetings

13:30 Plenary Session IV

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<tr>
<td>Plenary04</td>
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14:40 Parallel Sessions X

- - M/E 28
SMiBI07 Statistical Methods in Bioinformatics M/E 29
Award IBS-DR Award Ceremony IBS-DR Audimax
CS01 Computational Statistics HG II–HS 2
MDA02 Multivariate Data Analysis HG II–HS 3
SigA03 Signal Analysis HG II–HS 4
EF04 Empirical Finance HG II–HS 5
- - HG II–HS 6
- - HG II–HS 7
- - M/E 19

15:40 Break

16:10 Parallel Sessions XI

- - M/E 28
- - M/ 29
IBS-DR General Meeting IBS-DR Audimax
- - HG II–HS 2
OT04 Open Topics HG II–HS 3
- - HG II–HS 4
EF05 Empirical Finance HG II–HS 5
- - HG II–HS 6
- - HG II–HS 7
- - M/E 19

18:00 Social Program: Signal-Iduna-Park

19:30 Social Program: Conference Dinner
Friday, March 26th

08:50 Parallel Sessions XII

<table>
<thead>
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<td>Microeconometrics and Econom. Policy Evaluation</td>
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10:10 Break

10:40 Parallel Sessions XIII

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<td>SiP02</td>
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<td>Microeconometrics and Econom. Policy Evaluation</td>
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12:10 Plenary Session V

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<tr>
<td>Plenary04</td>
<td>Closing and Plenary Talk (Jim Berger)</td>
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Scientific Program
Tuesday, March 23rd, 8:50 – 10:10

**SA01: Survival Analysis**

**Time:** Tuesday, March 23rd, 8:50 – 10:10

**Session Chair:** Maxim Finkelstein  
**Room:** M/E 28

- **8:50 – 9:10** Procedures for analyzing Frailty-Models.  
  *Katharina Hirsch and Andreas Wienke*

- **9:10 – 9:30** Inference for data on recurrent asthma events using a TRP.  
  *Diana Pietzner and Andreas Wienke*

- **9:30 – 9:50** General Repair and Optimal Maintenance.  
  *Waltraud Kahle*

- **9:50 – 10:10** Kohärente Systeme und sequentielle Ordnungsstatistiken.  
  *Marco Burkschat*

**SMiMaE01: Statistical Methods in Medicine and Epidemiology**

**Time:** Tuesday, March 23rd, 8:50 – 10:10

**Session Chair:** Jürgen Wellmann  
**Room:** M/E 29

- **8:50 – 9:10**

- **9:10 – 9:30** Modellierung von Case-Mix-Indizes deutscher Krankenhäuser.  
  *Olaf Schoffer and Andreas Werblow*

- **9:30 – 9:50** On assessing time dependence of association in bivariate current status data.  
  *Steffen Unkel and C. Paddy Farrington*

- **9:50 – 10:10** When the stratified Mantel-Haenszel estimator meets the Propensity Score in a observational study.  
  *Susanne Stampf, Erika Graf and Martin Schumacher*

**SEM01: Structural Equation Modeling**

**Time:** Tuesday, March 23rd, 8:50 – 10:10

**Session Chair:** Rolf Steyer  
**Room:** HG II – HS 2

- **8:50 – 9:10** Nonlinear Dynamic Factor Models with Heteroskedastic Disturbance Structure.  
  *Rene Hempel and Lutz-Michael Alisch*

- **9:10 – 9:30** Exploration of a distribution-corrected bootstrap for nonlinear structural equation models.  
  *Holger Brandt, Andreas G. Klein and Karin Schermelleh-Engel*

- **9:30 – 9:50** How (not) to Investigate Simple Questions in Correlational Data: Structural Equation Modeling, Partial Least Squares, or OLS Regression?  
  *Christina S. Werner and Karin Schermelleh-Engel*

  *Sebastian Kaiser, Armin Graf, Dominik Traeger and Friedrich Leisch*
RM01: Regression Models

**Time:** Tuesday, March 23rd, 8:50 – 10:10

**Session Chair:** Thomas Kneib

**Room:** HG II – HS 3

8:50 – 9:10 Tests for the response distribution in generalized linear models.
*Bernhard Klar and Simos G. Meintanis*

*Nicole Krämer, Masashi Sugiyama and Mikio L. Braun*

9:30 – 9:50 Simultaneous Confidence Bands for Additive Models with Locally Adaptive Smoothed Components Applied to Undernutrition in India.
*Manuel Wiesenfarth and Tatyana Krivobokova*

9:50 – 10:10 Simultaneous Inference in Finite Mixtures of Regression Models.
*Friedrich Leisch and Hothorn Torsten*

RA01: Risk Analysis

**Time:** Tuesday, March 23rd, 8:50 – 10:10

**Session Chair:** Wolfgang Stummer

**Room:** HG II – HS 4

8:50 – 9:10 Normalizing Temperature Risk.
*Weining Wang, Wolfgang Haerdle and Brenda Lopez*

9:10 – 9:30 Simulation and Estimation of the Loss Given Default.
*Stefan Hlawatsch and Sebastian Ostrowski*

9:30 – 9:50 Konfidenzintervalle für Korrelationen im asymptotischen Einfaktormodell.
*Steffi Höse and Stefan Huschens*

*Stephanie Rubenbauer*

IRaV01: Image Recognition and Visualization

**Time:** Tuesday, March 23rd, 8:50 – 10:10

**Session Chair:** Adalbert Wilhelm

**Room:** HG II – HS 5

8:50 – 9:10 Hybrid Image Classification using Captions and Image Features.
*Iulian Ilies, Arne Jacobs, Otthein Herzog and Adalbert Wilhelm*

9:10 – 9:30 Classifying image primitives using metric multidimensional scaling on geodesic and euclidean distances of nodes in an image graph.
*Arne Jacobs, Otthein Herzog, Iulian Ilies and Adalbert Wilhelm*

9:30 – 9:50 Bayesian model selection in pharmacokinetic models.
*Julia C. Kärcher and Volker J. Schmid*

9:50 – 10:10 The technology for recognition and voicing text data for the visually impaired persons on the base of Hamming Networks and hidden Markov models.
*Grigory Yuryev*
TSA01: Time Series Analysis

Time: Tuesday, March 23rd, 8:50 – 10:10

Session Chair: Philipp Sibbertsen

Room: HG II – HS 6

8:50 – 9:10  Mean Shift Detection under long-range dependencies with ART.
             Juliane Willert

9:10 – 9:30  Fixed-b Phillips-Perron Type Unit Root Tests.
             Martin Wagner and Timothy J. Vogelsang

9:30 – 9:50  Recursive Adjustment for General Deterministic Components and Improved
             Tests for the Cointegration Rank.
             Matei Demetrescu

9:50 – 10:10 Weak dependence and nonparametric estimates for integer-valued time series.
             Jürgen Franke

NPS01: Non-Parametric and Semiparametric Statistics

Time: Tuesday, March 23rd, 8:50 – 10:10

Session Chair: Götz Trenkler

Room: HG II – HS 7

8:50 – 9:10

9:10 – 9:30  Some local and global asymptotics for penalized splines.
             Katsiaryna Sayevich

9:30 – 9:50  Choosing Smoothing Parameters by Discrepancy Principles.
             Thoralf Mildenberger

9:50 – 10:10 How to compare different nonparametric regression methods by simulation
             studies.
             Henrike Weinert

Tuesday, March 23rd, 10:40 – 12:00

Plenary01: Opening and Plenary Talk

Time: Tuesday, March 23rd, 10:40 – 12:00

Invited Speaker: Holger Dette

Session Chair: Göran Kauermann

Room: Audimax

10:40 – 12:00  Geometry, optimal designs and pharmacokinetic models.
               Holger Dette
Tuesday, March 23rd, 13:30 – 14:30

SA02: Survival Analysis

Time: Tuesday, March 23rd, 13:30 – 14:30

Session Chair: Axel Gandy

Room: M/E 28

Isabella Zwiener and Heiko Götte

Julia Hocke, Frank Fleischer and Birgit Gaschler-Markefski

14:10 – 14:30 Fallzahlplanung für rekursive Ereigniszeitdaten mit heterogenem Baseline-Risiko.
Katharina Ingel and Antje Jahn-Eimermacher

SMiBI01: Statistical Methods in Bioinformatics

Time: Tuesday, March 23rd, 13:30 – 14:30

Invited Speaker: Arndt von Haeseler

Session Chair: Holger Fröhlich

Room: M/E 29

13:30 – 14:10 A Different view of biological sequence evolution.
Arndt von Haeseler, Tanja Gesell, Steffen Klaere and Nguyen Thi Minh Anh

14:10 – 14:30 Population genetic inference based on pooled NGS data.
Andreas Futschik and Christian Schlötterer

SMiMaE02: Statistical Methods in Medicine and Epidemiology

Time: Tuesday, March 23rd, 13:30 – 14:30

Session Chair: Dirk Taeger

Room: Audimax

Ulrike Held, Leonhard Held, Lucas M. Bachmann, Anne Spaar and Johann Steurer

13:50 – 14:10 Joint evaluation of sensitivity and specificity in diagnostic studies and its impact on the sample size.
Werner Vach, Oke Gerke and Poul Flemming Hoiland-Carlsen

14:10 – 14:30 Confidence bounds for the sensitivity gain of a more specific diagnostic test, without gold standard.
Lutz Mattner and Frauke Mattner
SS01: Survey Statistics

**Time:** Tuesday, March 23rd, 13:30 – 14:30

**Invited Speaker:** Ralf Münnich

**Session Chair:** Siegfried Gabler

**Room:** HG II – HS 2


*Ralf Münnich*

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RM02: Regression Models

**Time:** Tuesday, March 23rd, 13:30 – 14:30

**Session Chair:** Johannes Dreesman

**Room:** HG II – HS 3


*Harry Haupt and Göran Kauermann*

13:50 – 14:10 Improved GMM estimation of the spatial autoregressive error model.

*Matthias Arnold and Dominik Wied*

14:10 – 14:30

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IRaV02: Image Recognition and Visualization

**Time:** Tuesday, March 23rd, 13:30 – 14:30

**Session Chair:** Adalbert Wilhelm

**Room:** HG II – HS 5


*Alexander Gribov, Martin Sill, Antony Unwin and Axel Benner*

13:50 – 14:10 Graphics for the One-Parameter Logistic Model.

*Anatol Sargin and Ali Ünlü*

14:10 – 14:30 New approaches in visualization of categorical data: R-package extracat.

*Alexander Pilhöfer*

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OT01: Open Topics

**Time:** Tuesday, March 23rd, 13:30 – 14:30

**Session Chair:** Rafael Weißbach

**Room:** HG II – HS 6

13:30 – 13:50 Testing for chaos in financial time series without phase space reconstruction.

*Karsten Webel*

13:50 – 14:10 Testing separately for positive and negative jumps in financial data.

*Janine Balter and Stefan Klößner*

14:10 – 14:30 Friedman-Ball versus Cukierman-Meltzer: A cross sectional empirical investigation on the nature of inflation uncertainty.

*Matthias Hartmann*
### NPS02: Non-Parametric and Semiparametric Statistics

**Time:** Tuesday, March 23rd, 13:30 – 14:30  
**Session Chair:** Henryk Zähle  
**Room:** HG II – HS 7

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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  *Arnold Janssen* |
| 13:50 – 14:10 | A robust test for homoscedasticity in nonparametric regression.  
  *Mareen Marchlewski and Holger Dette* |
| 14:10 – 14:30 | Ein neuer Lokations-Skalen-Test basierend auf einer Kombination der Ideen von Levene und Lepage.  
  *Dorothee Ball, Ann-Kristin Leuchs and Markus Neuhäuser* |

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### Tuesday, March 23rd, 14:40 – 15:40

### SA03: Survival Analysis

**Time:** Tuesday, March 23rd, 14:40 – 15:40  
**Session Chair:** Jutta Gampe  
**Room:** M/E 28

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 14:40 – 15:00 | Measures of prediction error for survival data with longitudinal covariates.  
  *Rotraut Schoop and Erika Graf* |
| 15:00 – 15:20 | Investigation of properties of the MFPT approach to assess time-varying effects in a multivariable Cox model for survival data.  
  *Anika Buchholz, Willi Sauerbrei and Patrick Royston* |
| 15:20 – 15:40 | Dunnett-type Inference in the Frailty Cox Model.  
  *Esther Herberich and Torsten Hothorn* |

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### SMiBI02: Statistical Methods in Bioinformatics

**Time:** Tuesday, March 23rd, 14:40 – 15:40  
**Session Chair:** Volker Schmid  
**Room:** M/E 29

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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</thead>
</table>
| 14:40 – 15:00 | Improved Ranking and Selection of Single Nucleotide Polymorphisms in Association Studies.  
  *Holger Schwender, Katja Ickstadt and Ingo Ruczinski* |
| 15:00 – 15:20 | Limitations of SNP association studies.  
  *Tina Müller, Katja Ickstadt and Harald Binder* |
  *Stefan Boehringer* |
### SMiMaE03: Statistical Methods in Medicine and Epidemiology

**Time:** Tuesday, March 23rd, 14:40 – 15:40  
**Session Chair:** Ralf Bender  
**Room:** Audimax

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>14:40 – 15:00</td>
<td>Summary ROC curve based on the Youden index for selecting an optimal cutpoint in meta-analysis of diagnostic accuracy.</td>
<td>Gerta Rücker and Martin Schumacher</td>
</tr>
<tr>
<td>15:00 – 15:20</td>
<td>A new strategy for meta-analysis of continuous covariates in observational studies.</td>
<td>Willi Sauerbrei and Patrick Royston</td>
</tr>
<tr>
<td>15:20 – 15:40</td>
<td>A semiparametric mixture model for the meta-analysis of sensitivity and specificity.</td>
<td>Peter Schlattmann</td>
</tr>
</tbody>
</table>

### SS02: Survey Statistics

**Time:** Tuesday, March 23rd, 14:40 – 15:40  
**Session Chair:** Ralf Männich  
**Room:** HG II – HS 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>14:40 – 15:00</td>
<td>Bayesian Spatial Modeling: Theory and Application with Special Focus on the German Census 2011.</td>
<td>Martin Vogt and Ralf Münnich</td>
</tr>
</tbody>
</table>

### RM03: Regression Models

**Time:** Tuesday, March 23rd, 14:40 – 15:40  
**Invited Speaker:** Paulo Justiniano Ribeiro Jr.  
**Session Chair:** Johannes Dreesman  
**Room:** HG II – HS 3

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>15:20 – 15:40</td>
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### IS01: Industrial Statistics

**Time:** Tuesday, March 23rd, 14:40 – 15:40  
**Session Chair:** Sven Knoth  
**Room:** HG II – HS 4

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:40 – 15:00</td>
<td>Incorporating weather data in sales forecasting.</td>
<td>Robert Offinger, Klaus Ritter and Thomas Müller-Gronbach</td>
</tr>
<tr>
<td>15:00 – 15:20</td>
<td>Detecting Mean Increases in Poisson INAR(1) Processes with EWMA Control Charts.</td>
<td>Christian Weiß</td>
</tr>
<tr>
<td>15:20 – 15:40</td>
<td>Multivariate statistical process control - a QCC approach based on copulas.</td>
<td>Editha Lockow</td>
</tr>
</tbody>
</table>
## RA02: Risk Analysis

**Time:** Tuesday, March 23rd, 14:40 – 15:40  
**Session Chair:** Volker Krätschmer  
**Room:** HG II – HS 5

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:40 – 15:00</td>
<td>Error caused by normal approximation of the total claim distribution when plugged in risk measures.</td>
<td>Volker Krätschmer and Henryk Zähle</td>
</tr>
<tr>
<td>15:00 – 15:20</td>
<td>Surveillance of Volatility Forecasting Models.</td>
<td>Iryna Okhrin, Vasyl Golosnoy and Wolfgang Schmid</td>
</tr>
<tr>
<td>15:20 – 15:40</td>
<td>Some distances in exponential families for risk management.</td>
<td>Wolfgang Stummer</td>
</tr>
</tbody>
</table>

## TSA02: Time Series Analysis

**Time:** Tuesday, March 23rd, 14:40 – 15:40  
**Session Chair:** Jens-Peter Kreiss  
**Room:** HG II – HS 6

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:40 – 15:00</td>
<td>A fluctuation test for constant correlation.</td>
<td>Dominik Wied, Matthias Arnold and Herold Dehling</td>
</tr>
</tbody>
</table>

## OT02: Open Topics

**Time:** Tuesday, March 23rd, 14:40 – 15:40  
**Session Chair:** Guido Knapp  
**Room:** HG II – HS 7

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:40 – 15:00</td>
<td>Single-trial detection of neural co-activation at specific frequencies.</td>
<td>Anja Seidel, Michael Wibral, Matthias Munk and Gaby Schneider</td>
</tr>
<tr>
<td>15:00 – 15:20</td>
<td>Regression to the mean versus normalisation– a statistical phenomenon meets biology.</td>
<td>Thomas Ostermann</td>
</tr>
<tr>
<td>15:20 – 15:40</td>
<td>On a characterization of variance.</td>
<td>Norbert Poschadel</td>
</tr>
</tbody>
</table>
Tuesday, March 23rd, 16:10 – 17:30

SA04: Survival Analysis

**Time:** Tuesday, March 23rd, 16:10 – 17:30  
**Session Chair:** Axel Benner  
**Room:** M/E 28

16:10 – 16:30 Parametric Modeling of the Cumulative Incidence Function with an extended Gompertz distribution.  
*Sarah R. Haile and Jong-Hyeon Jeong*

16:30 – 16:50 Performance of Variance Estimators of the Cumulative Incidence Function for Left-Truncated Competing Risks Data.  
*Arthur Allignol, Martin Schumacher, Reinhard Meister and Jan Beyersmann*

16:50 – 17:10 Evaluating medical and psychosocial risk factors for competing waiting-list outcomes: The Waiting for a New Heart Study.  
*Daniela Zahn, Gerdi Weidner, Jan Beyersmann, Jacqueline M.A. Smits and Heike Spaderna*

17:10 – 17:30 Inference in a misspecified proportional hazards model with left-truncated time-to-event data.  
*Nadine Grambauer, Martin Schumacher and Jan Beyersmann*

OT03: Open Topics

**Time:** Tuesday, March 23rd, 16:10 – 17:30  
**Session Chair:** Marco Grzegorczyk  
**Room:** M/E 29

16:10 – 16:30 Data transformation and parameter choice in concentration-response modeling: A case study.  
*Marc Weimer, Oriana Ponta, Alexius Freyberger and Annette Kopp-Schneider*

16:30 – 16:50 Classification of chemical compounds on the basis of concentration-response data: Challenges in the statistical analysis of a toxicological project.  
*Sven Stanzel, Marc Weimer and Annette Kopp-Schneider*

*Dorothee Girbig, Karsten Keller, Katja Prelle, Richardus Vonk and Bernd-Wolfgang Igl*

17:10 – 17:30 In vitro synergy of specifically targeted antiviral therapies for hepatitis C (STAT-C) in combination with Ribavirin and pegylated Interferon.  
*Tje Lin Chung, Carola Osbahr, Wolf Peter Hofmann and Eva Herrmann*
SMiMaE04: Statistical Methods in Medicine and Epidemiology

**Time:** Tuesday, March 23rd, 16:10 – 17:30

**Session Chair:** Peter Schlattmann and Mandy Hildebrandt  
**Room:** Audimax

16:10 – 16:30 Mixed treatment comparison in a preplanned meta-analysis: a series of four three-armed studies to evaluate nine treatments.  
*Ulrich Mansmann*

16:30 – 16:50 Mixed Treatment Comparison Meta-Analysis: An Example.  
*Sibylle Sturtz and Ralf Bender*

*Katrin Jensen, Oliver Kuß, Markus Diener and Christoph Seiler*

17:10 – 17:30 Vergleich von Cochrane Reviews und RCTs hinsichtlich der Verwendung der Number Needed to Treat (NNT).  
*Mandy Hildebrandt, Nina Dormann and Ralf Bender*


MMiAS01: Mixed Models in Agricultural Sciences

**Time:** Tuesday, March 23rd, 16:10 – 17:30

**Session Chair:** Christel Richter  
**Room:** HG II – HS 2

16:10 – 16:30 Including non-additive effects in Bayesian methods for the prediction of genetic values from genome-wide SNP data.  
*Dörte Wittenburg and Nina Melzer*

16:30 – 16:50 REML-based diallel analysis in plant breeding.  
*Jens Möhring, Albrecht Melchinger and Hans-Peter Piepho*

*Karen Höltl, Katrin Thamm, Norbert Mielenz and Joachim Spilke*

17:10 – 17:30 Modellwahl zur Auswertung von Milchleistung, Trockenmasseaufnahme und Anzahl Besuche am Futterautomat beim Milchrind.  
*Katrin Thamm, Karen Höltl, Michael Bulang, Norbert Mielenz and Joachim Spilke*
**RM04: Regression Models**

**Time:** Tuesday, March 23rd, 16:10 – 17:30

**Session Chair:** Matthias Schmid

**Room:** HG II – HS 3

*Thomas Kneib and Sonja Greven*

16:30 – 16:50 Regularization and Model Selection with Categorial Effect Modifiers.  
*Jan Gertheiss and Gerhard Tutz*

16:50 – 17:10 A systematic comparison of multivariable models obtained from the fractional polynomial and a spline-based approach.  
*Harald Binder, Willi Sauerbrei and Patrick Royston*

17:10 – 17:30 Bayesian Fractional Polynomials.  
*Daniel Sabanés Bové and Leonhard Held*

**IS02: Industrial Statistics**

**Time:** Tuesday, March 23rd, 16:10 – 17:30

**Invited Speaker:** Jye-Chyi Lu

**Session Chair:** Sven Knoth

**Room:** HG II – HS 4

16:10 – 16:50 Statistics in Nanotechnology Research.  
*Jye-Chyi Lu*

*Alessandro Di Bucchianico*

17:10 – 17:30

**SatGP01: Statistics and the General Public**

**Time:** Tuesday, March 23rd, 16:10 – 17:30

**Invited Speaker:** Peter von der Lippe

**Session Chair:** Markus Zwick

**Room:** HG II – HS 5

16:10 – 16:50 Herrschaft der Politik über die amtliche Statistik in der DDR.  
*Peter von der Lippe*

*Anja Crößmann*

*Maurice Brandt, Markus Zwick and Christopher Gürke*
TSA03: Time Series Analysis

**Time:** Tuesday, March 23rd, 16:10 – 17:30

**Invited Speaker:** Dag Tjostheim

**Session Chair:** Jens-Peter Kreiss

**Room:** HG II – HS 6

16:10 – 16:50 Gaussian local correlation as a measure of nonlinear dependence.

* Dag Tjostheim

16:50 – 17:10 Improving an identification problem of ESTAR models by using the new T-STAR model.

* Stefanie Donauer, Florian Heinen and Philipp Sibbertsen

17:10 – 17:30 A Functional Central Limit Theorem for a Stochastic Process based on Sequentially Updated Residuals.

* Sabine Teller and Ansgar Steland

NPS03: Non-Parametric and Semiparametric Statistics

**Time:** Tuesday, March 23rd, 16:10 – 17:30

**Session Chair:** Thoralf Mildenberger

**Room:** HG II – HS 7

16:10 – 16:30 Modelling and Forecasting Liquidity Supply Using Semiparametric Factor Dynamics.

* Wolfgang Karl Härdle, Nikolaus Hautsch and Andrija Mihoci

16:30 – 16:50 A modified functional delta method and its application to the estimation of risk measures.

* Henryk Zähle and Eric Beutner

16:50 – 17:10 Simultane Konfidenzintervalle für nichtparametrische relative Effekte longitudinaler Daten in faktoriellen Experimenten.

* Frank Konietschke

17:10 – 17:30 Sensitivität, Spezifität und die Fläche unter der ROC-Kurve als Effektmaße in Diagnostestudien - ein einheitlicher, nichparametrischer Analyseansatz.

* Katharina Lange and Edgar Brunner
# Wednesday, March 24th, 8:50 – 10:10

## SA05: Survival Analysis

**Time:** Wednesday, March 24th, 8:50 – 10:10  
**Invited Speaker:** Maxim Finkelstein  
**Session Chair:** Waltraud Kahle  
**Room:** M/ E 28

- **8:50 – 9:30** Failure Rates for Heterogeneous Populations.  
  *Maxim Finkelstein*
  *Axel Gandy*
- **9:50 – 10:10** A generalized mixed distribution in lifetime analysis.  
  *Roxana Ciumara and Vasile Preda*

## SMiMaE05: Statistical Methods in Medicine and Epidemiology

**Time:** Wednesday, March 24th, 8:50 – 10:10  
**Session Chair:** Manfred Berres  
**Room:** M/ E 29

- **8:50 – 9:10**  
- **9:10 – 9:30** A simulation model to investigate the ability of the case-crossover method for risk assessment.  
  *Peggy Sekula and Martin Schumacher*
- **9:30 – 9:50** Alternative measures of genetic association may facilitate the detection of causal susceptibility variants.  
  *Justo Lorenzo Bermejo and Abigail G. Matthews*
- **9:50 – 10:10** Multiples Testen in genetischen Assoziationsstudien - Klassische Verfahren vs. Resampling.  
  *Amelie Elsäßer, Anja Victor and Gerhard Hommel*

## CT01: Clinical Trials

**Time:** Wednesday, March 24th, 8:50 – 10:10  
**Invited Speaker:** Wei Liu  
**Session Chair:** Marc Vandemeulebroecke  
**Room:** Audimax

- **8:50 – 9:30** Simultaneous confidence bands for regression.  
  *Wei Liu*
- **9:30 – 9:50** Multiple gewichtete Tests mit geordneten p-Werten.  
  *Gerhard Hommel*
- **9:50 – 10:10** µTOSS - Multiple hypotheses testing in an open software system.  
  *Thorsten Dickhaus, Gilles Blanchard, Niklas Hack, Frank Konietzchke, Kornelius Rohmeyer, Jonathan Rosenblatt, Marsel Scheer and Wiebke Werft*
### IRM01: Item-Response Modeling

**Time:** Wednesday, March 24th, 8:50 – 10:10  
**Session Chair:** Heinz Holling  
**Room:** HG II – HS 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:10 – 9:30</td>
<td>Inductive Item Tree Analysis.</td>
<td><em>Ali Ünlü and Anatol Sargin</em></td>
</tr>
<tr>
<td>9:50 – 10:10</td>
<td>A latent trait model for response times in tests.</td>
<td><em>Jochen Ranger</em></td>
</tr>
</tbody>
</table>

### RM05: Regression Models

**Time:** Wednesday, March 24th, 8:50 – 10:10  
**Session Chair:** Harry Haupt  
**Room:** HG II – HS 3

<table>
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<tbody>
<tr>
<td>8:50 – 9:10</td>
<td>A Solution to the Problem of Too Many Instruments in Dynamic Panel Data GMM.</td>
<td><em>Jens Mehrhoff</em></td>
</tr>
<tr>
<td>9:10 – 9:30</td>
<td>Panel Regression with Random Noise.</td>
<td><em>Hans Schneeweß and Gerd Ronning</em></td>
</tr>
<tr>
<td>9:30 – 9:50</td>
<td>Regression analysis of convergence of German districts.</td>
<td><em>Harry Haupt and Verena Petring</em></td>
</tr>
<tr>
<td>9:50 – 10:10</td>
<td>Multiple Testing Techniques in Growth Econometrics.</td>
<td><em>Christoph Hanck and Thomas Deckers</em></td>
</tr>
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</table>

### M01: Metaanalysis

**Time:** Wednesday, March 24th, 8:50 – 10:10  
**Session Chair:** Guido Schwarzer  
**Room:** HG II – HS 4

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:50 – 9:10</td>
<td>Effect-Size Indices for Dichotomized Measures in Meta-Analysis.</td>
<td><em>Günther Gediga, Heinz Holling, Chananet Chanaphun, S. Phanyaem and V. Jongjarwaysakul</em></td>
</tr>
<tr>
<td>9:10 – 9:30</td>
<td>Extracting within-trial variability for meta-analysis of horticultural experiments.</td>
<td><em>Guido Knapp</em></td>
</tr>
<tr>
<td>9:30 – 9:50</td>
<td>Using a Combination of Individual and Aggregate Participant Data in Meta-Analysis: A Case Study on the Determinants of Unexcused School Absenteeism.</td>
<td><em>Bernd Weiß</em></td>
</tr>
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</table>
RA03: Risk Analysis

**Time:** Wednesday, March 24th, 8:50 – 10:10

**Invited Speaker:** Enrico Biffis

**Session Chair:** Alfred Müller

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<tr>
<td>8:50 – 9:30</td>
<td>Longevity as an asset class.</td>
<td>Enrico Biffis</td>
</tr>
<tr>
<td>9:30 – 9:50</td>
<td>Multivariate expected shortfall with distorted probabilities.</td>
<td>Karl Mosler and Rainer Dyckerhoff</td>
</tr>
<tr>
<td>9:50 – 10:10</td>
<td>Expectiles as Risk Measures.</td>
<td>Alfred Müller</td>
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Room: HG II – HS 5

DoE01: Design of Experiments

**Time:** Wednesday, March 24th, 8:50 – 10:10

**Session Chair:** Joachim Kunert

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<tbody>
<tr>
<td>8:50 – 9:10</td>
<td>A graph-based algorithm for identifying 2-level fractional factorial designs with some clear 2-factor interactions.</td>
<td>Ulrike Grömping</td>
</tr>
<tr>
<td>9:10 – 9:30</td>
<td>Optimal Designs for Mixed Effects Models with Singular Individual Information.</td>
<td>Tobias Mielke</td>
</tr>
<tr>
<td>9:30 – 9:50</td>
<td>On bounds for the efficiency of designs for crossover models with carry-over effects when comparing test treatments to a control.</td>
<td>Sabine Mersmann and Joachim Kunert</td>
</tr>
<tr>
<td>9:50 – 10:10</td>
<td>The Box Correction for Crossover Designs Allowing for Carryover Effects: Correction for Worst Case and Estimation.</td>
<td>Oliver Sailer and Joachim Kunert</td>
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</table>

Room: HG II – HS 6

RS01: Robust Statistics

**Time:** Wednesday, March 24th, 8:50 – 10:10

**Session Chair:** Andreas Christmann

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>8:50 – 9:10</td>
<td>Robust multivariate methods for compositional data.</td>
<td>Peter Filzmoser and Karel Hron</td>
</tr>
<tr>
<td>9:10 – 9:30</td>
<td>Breakdown point properties for estimators in Generalized Pareto Models.</td>
<td>Peter Ruckdeschel and Nataliya Horbenko</td>
</tr>
<tr>
<td>9:30 – 9:50</td>
<td>On robust cross validation for nonparametric smoothing.</td>
<td>Oliver Morell and Roland Fried</td>
</tr>
<tr>
<td>9:50 – 10:10</td>
<td>Assessment of robustness concerning normalizing algorithms for cDNA microarrays.</td>
<td>Jakob Wieczorek, Roland Fried and Katja Ickstadt</td>
</tr>
</tbody>
</table>

Room: HG II – HS 7
I-Day01: Industry Day

Time: Wednesday, March 24th, 8:50 – 10:10

8:50 – 10:10 Versuchsplanung (DOE)
  Claus Weihs (TU Dortmund)

Wednesday, March 24th, 10:40 – 12:00

SA06: Survival Analysis

Time: Wednesday, March 24th, 10:40 – 12:00

Invited Speaker: Jutta Gampe

Session Chair: Oliver Kuß

Room: M/E 28

10:40 – 11:20 Unobserved Population Heterogeneity: 30 Years of Frailty Models in Demography.
  Jutta Gampe

  Jürgen Wellmann and Klenk Jochen

11:40 – 12:00 Frailty models for bivariate current status data: An example with cross-sectional serological data.
  Andreas Wienke and Niel Hens

SMiBI03: Statistical Methods in Bioinformatics

Time: Wednesday, March 24th, 10:40 – 12:00

Session Chair: Holger Schwender

Room: M/E 29

10:40 – 11:00 Design of the Coronary ARtery DIsease Genome-wide Replication And Meta-Analysis (CARDIoGRAM) Study - A genome-wide association meta-analysis involving more than 22,000 cases an 60,000 controls.
  Michael Preuß and Inke R. König

  Christina Loley, Andreas Ziegler and Inke R. König

11:20 – 11:40 Aufdeckung von Populationsstratifikation in genomweiten Assoziationsstudien durch Hauptkomponentenanalyse - Wie gehen wir mit fehlenden Werten um?
  Janja Nahrstaedt and Inke R. König

11:40 – 12:00 Flexible kosteneffiziente Designs für genomweite Assoziationsstudien.
  Hans-Helge Müller, Roman Pahl and Helmut Schäfer
CT02: Clinical Trials

Time: Wednesday, March 24th, 10:40 – 12:00

Session Chair: Iris Pigeot  
Room: Audimax

10:40 – 11:00 Simultaneous Control of false discovery rate and expected type 1 error.  
**Marsel Scheer and Helmut Finner**

11:00 – 11:20 Zur Konstruktion von Konfidenzschranken für die Anzahl wahrer Hypothesen: Ein Partitionansatz.  
**Klaus Straßburger**

11:20 – 11:40 Optimising multiple testing procedures in the 3-arm Gold Standard Design.  
**Iris Pigeot and Joachim Röhmel**

11:40 – 12:00

IRM02: Item-Response Modeling

Time: Wednesday, March 24th, 10:40 – 12:00

Session Chair: Christof Schuster  
Room: HG II – HS 2

10:40 – 11:00 Accounting for Inter-Personal Heterogeneity in Psychometric Models.  
**Carolin Strobl and Achim Zeileis**

11:00 – 11:20 Bayesian optimal design for linear logistic test models.  
**Heinz Holling, Ulrike Graßhoff and Rainer Schwabe**

**Matthias Trendtel and Ali Ünlü**

11:40 – 12:00 Diagnostic Knowledge Structure Models: A Review and Comparison.  
**Ann Cathrice George and Ali Ünlü**

RM06: Regression Models

Time: Wednesday, March 24th, 10:40 – 12:00

Session Chair: Friedrich Leisch  
Room: HG II – HS 3

10:40 – 11:00 Longitudinal Functional Principal Component Analysis.  
**Sonja Greven, Ciprian Crainiceanu, Brian Caffo and Daniel Reich**

11:00 – 11:20 Studing interactional synchrony using time series and regression models.  
**Uwe Altmann**

11:20 – 11:40 Multilevel Structured Additive Regression.  
**Stefan Lang**

11:40 – 12:00 Using the LASSO to merge adjacent categories in ordinal regressors.  
**Johannes Hüsing, Nina Wagener and Maria Pritsch**
SC01: Statistical Consulting

**Time:** Wednesday, March 24th, 10:40 – 12:00

**Room:** HG II – HS 4

10:40 – 11:00  SBAZ – Statistical Consulting in Dortmund  
*Uwe Ligges*

11:00 – 11:20  Statistical consulting at STABLAB (LMU München)  
*Helmut Küchenhoff*

*Amit Ghosh and Ulrich Rendtel*

11:40 – 12:00

EF01: Empirical Finance

**Time:** Wednesday, March 24th, 10:40 – 12:00

**Session Chair:** Ying Chen

**Room:** HG II – HS 5

10:40 – 11:00  Uniform confidence bands for pricing kernels.  
*Wolfgang Härdle, Yarema Okhrin and Weining Wang*

11:00 – 11:20  Analyzing the world stock index.  
*Jeannette H.C. Woerner*

11:20 – 11:40  Volatility investing with variance swaps.  
*Elena Silyakova and Härdle Wolfgang*

11:40 – 12:00  The real Price Effect of Wind Power.  
*Dominik Liebl and Marco Nicolosi*

DoE02: Design of Experiments

**Time:** Wednesday, March 24th, 10:40 – 12:00

**Invited Speaker:** Thomas J. Santner

**Session Chair:** Holger Dette

**Room:** HG II – HS 6

10:40 – 11:20  Space-filling Designs for Hyper-Polygonal Regions.  
*Thomas J. Santner, Danel Draguljic and Angela Dean*

*Andrei Kramer and Nicole Raade*

11:40 – 12:00  Optimal experimental designs for dose-response models.  
*Christine Kiss, Holger Dette, Mirjana Bevanda and Frank Bretz*
RS02: Robust Statistics

Time: Wednesday, March 24th, 10:40 – 12:00

Invited Speaker: Stefan Van Aelst

Session Chair: Peter Filzmoser

Room: HG II – HS 7

10:40 – 11:20 Robust Bootstrap Inference: Recent Developments.
   Stefan Van Aelst and Gert Willems

11:20 – 11:40 Qualitative Robustness of Support Vector Machines.
   Robert Hable and Andreas Christmann

11:40 – 12:00 On the use of support vector machines in non-standard situations.
   Andreas Christmann

I-Day02: Industry Day

Time: Wednesday, March 24th, 10:40 – 12:00

Room: M/E 19

10:40 – 12:00 Messunsicherheit (MSA oder GR&R).
   Peter.-T. Wilrich (FU Berlin)

Wednesday, March 24th, 13:00 – 13:30

I-Day03: Industry Day

Time: Wednesday, March 24th, 13:00 – 13:30

Room: M/E 19

13:00 – 13:30 Quality Assurance and Auditing in Biostatistics.
   Uwe Haag (HaaPACS GmbH)
Wednesday, March 24th, 13:30 – 14:30

Plenary02: Plenary Talk
Time: Wednesday, March 24th, 13:30 – 14:30
Invited Speaker: Joshua Angrist
Session Chair: Wilfried Seidel

Joshua Angrist

Wednesday, March 24th, 14:40 – 16:00

SA07: Survival Analysis
Time: Wednesday, March 24th, 14:40 – 16:00
Invited Speaker: Hein Putter
Session Chair: Jan Beyersmann

14:40 – 15:20 Frailties in multi-state models: Are they identifiable? Do we need them?
Hein Putter and Hans C. van Houwelingen
15:20 – 15:40 Prediction in multi-state models and its application in chronic myeloid
leukaemia.
Michael Lauseker, Jörg Hasford and Andreas Hochhaus
15:40 – 16:00 A simple simulation technique for non-parametric analysis of time-to-event data arising in multistate models.
Susanna Di Termini, Martin Schumacher and Jan Beyersmann

SMiBI04: Statistical Methods in Bioinformatics
Time: Wednesday, March 24th, 14:40 – 16:00
Session Chair: Achim Tresch

14:40 – 15:00 Modelling non-stationary gene regulatory processes.
Marco Grzegorczyk
15:00 – 15:20 Indirect Comparison of Gene Interaction Graphs.
Vindi Jurinovic and Ulrich Mansmann
15:20 – 15:40 Comparison of different progression models for the course of diseases.
Katrin Knies and Roland Fried
15:40 – 16:00 A Factor Graph Model for Minimal Gene Set Enrichment Analysis.
Diana Uskat, Theresa Niederberger and Achim Tresch
CT03: Clinical Trials

Time: Wednesday, March 24th, 14:40 – 16:00

Session Chair: Carsten Schwenke

Room: Audimax

14:40 – 15:00 The Influence of Investigator-Introduced Informative Censoring on Independent Review of progression free survival.
   Frank Fleischer, Birgit Gaschler-Markefski and Erich Bluhmki

15:00 – 15:20 Number needed to read - Significance and power in diagnostic studies.
   Carsten Schwenke, Ulrike Attenberger, Stefan Haneder, Thomas Henzler,
   Matthias Voth and Henrik Michaely

15:20 – 15:40 Assessing the similarity of two dose response curves.
   Matthias Trampisch, Frank Bretz, Wei Liu and Holger Dette

15:40 – 16:00 The assessment and planning of non-inferiority trials for retention of effect hypotheses - towards a general approach.
   Matthias Mielke and Axel Munk

D01: Demography

Time: Wednesday, March 24th, 14:40 – 16:00

Session Chair: E.-Jürgen Flöthmann

Room: HG II-HS 2

14:40 – 15:00 Die Skewed-Exponential-Power-Verteilung als Modell für die Geburtenhäufigkeiten - Ein Diagnose- und Prognoseinstrument.
   Manfred Scharein

15:00 – 15:20 Geburtenhäufigkeit je nach Mondphase: eine systematische Literaturübersicht.
   Reinhard Vonthein and Andreas Ziegler

   Hendrik Hansen

15:40 – 16:00

RM07: Regression Models

Time: Wednesday, March 24th, 14:40 – 16:00

Session Chair: Harald Binder

Room: HG II-HS 3

14:40 – 15:00 Variable Selection in Generalized Mixed Models.
   Andreas Groll and Gerhard Tutz

15:00 – 15:20 Adapting for the Missing Link with Simultaneous Variable Selection in Generalized Linear Models.
   Sebastian Petry, Gerhard Tutz

   Benjamin Hofner, Torsten Hothorn, Thomas Kneib and Matthias Schmid

15:40 – 16:00 Geoadditive Regression Modeling of Stream Ecological Condition Using Component-Wise Boosting.
   Matthias Schmid
DP01: Data Preprocessing

Time: Wednesday, March 24th, 14:40 – 16:00

Invited Speaker: Thomas F. Wienker

Session Chair: Andreas Ziegler

Room: HG II-HS 4

14:40 – 15:20 Quality control and genetic interaction analysis of microarray SNP data.  
Thomas F. Wienker

Andreas Ziegler, Arne Schillert, Maren Vens, Tanja Zeller and Stefan Blankenberg

15:40 – 16:00 Factor Preselection and Multiple Measures of Dependence.  
Ulrich Müller-Funk and Nina Büchel

EF02: Empirical Finance

Time: Wednesday, March 24th, 14:40 – 16:00

Invited Speaker: Shih-Feng Huang

Session Chair: Yarema Okhrin

Room: HG II-HS 5

Shih-Feng Huang

Rafael Weißbach and Ronja Walter

15:40 – 16:00 Time varying Hierarchical Archimedean Copulae.  
Ostap Okhrin, Yarema Okhrin and Wolfgang Karl Härdle

BM01: Bayesian Methods

Time: Wednesday, March 24th, 14:40 – 16:00

Session Chair: Leonhard Held

Room: HG II-HS 6

14:40 – 15:00 Metropolis-Hastings Algorithms with Adaptive Proposals.  
Renate Meyer, Bo Cai and Francois Perron

15:00 – 15:20 Umgang mit fehlenden Werten in einer randomisierten diagnostischen Vali- 
dierungsstudie.  
Veronika Weyer, Jochem König and Stefanie Klug

15:20 – 15:40 Copula Gaussian Graphical Models.  
Alex F Lenkoski and Adrian Dobra

15:40 – 16:00 Prior-Data Conflict and Generalized Bayesian Inference.  
Gero Walter
RS03: Robust Statistics

**Time:** Wednesday, March 24th, 14:40 – 16:00

**Session Chair:** Robert Hable

**Room:** HG II-HS 7

14:40 – 15:00 The Role of Model Assumptions in Statistics.
  *Christian Hennig*

15:00 – 15:20 Estimators and Tests based on Likelihood Depth.
  *Liesa Denecke, Christine Müller*

15:20 – 15:40 A robust location and covariance estimator based on pruning the Minimum Spanning Tree.
  *Thomas Kirschstein, Steffen Liebscher and Claudia Becker*

15:40 – 16:00 Bounded-Influence Robust Estimation in Joint Model in the presence of Missing Covariates.
  *Arindom Chakraborty*

I-Day04: Industry Day

**Time:** Wednesday, March 24th, 14:40 – 16:00

**Room:** M/E 19

14:40 – 16:00 Statistische Prozesskontrolle (SPC).
  *Sven. Knoth (HSU Hamburg)*

Wednesday, March 24th, 16:30 – 17:30

Plenary03: Plenary Talk

**Time:** Wednesday, March 24th, 16:30 – 17:30

**Invited Speaker:** Hans Schneeweiß

**Session Chair:** Göran Kauermann

**Room:** Audimax

16:30 – 17:30 The effect of rounding and Sheppard’s correction.
  *Hans Schneeweß, John Komlos and Amar Sabri Ahmad*
**Wednesday, March 24th, 16:30 – 17:30**

**I-Day05**

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<thead>
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<th>Time:</th>
<th>Wednesday, March 24th, 16:30 – 18:00</th>
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<tbody>
<tr>
<td>Room:</td>
<td>M/E 19</td>
</tr>
<tr>
<td>16:30 – 17:30</td>
<td>Adaptive Designs in klinischen Studien</td>
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*Gernot. Wassmer und Reinhard Eisebitt (ADDPLAN GmbH)*

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**Wednesday, March 24th, 17:30 – 19:00**

**Poster Presentation**

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<th>Time:</th>
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<tbody>
<tr>
<td>Room:</td>
<td>Mathe-Tower</td>
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</tbody>
</table>
| 01 | Beta-GAMLSS for analyzing quality of life in health economic evaluation.  
*Matthias Hunger, Michael Höhle and Rolf Holle* |
| 02 | Identifiable Uniqueness Conditions for a Large Class of M-Estimators in the Context of Possibly Misspecified Nonlinear Regression Models.  
*Francisco Blasques* |
| 03 | Längsschnittliche Modellierung der Knochendichte nach einer Stammzelltransplantation mit fraktionalen Polynomen  
*Carolin Pütter, Katja Ickstadt, Karl-Heinz Jöckel, Claudia Schulte and André Scherag* |
| 04 | Control of non-normal processes.  
*Arsene Ntiwa and Roland Fried* |
| 05 | Methoden zur Schätzung von Perioden in stark unregelmäßig beobachteten Zeitreihen.  
*Anita Monika Thieler, Michael Backes, Roland Fried and Wolfgang Rhode* |
| 06 | Should we trust in leading indicators? Evidence from the recent recession.  
*Rolf Scheufele and Katja Drechsel* |
| 07 | Optimal Design for three-level Nested (two nests) Multinomial Logit Models in Discrete Choice Experiments.  
*Habib Jafari* |
| 08 | Anwendung der Statistischen Versuchsplanung zur Entwicklung glutenfreier Gebäcke.  
*Ute Römisch and Margrit Valentin* |
09 Robust Fitting of INGARCH Models for Count Time Series.
   Hanan El-saied and Roland Fried
10 Change point detection for Bernoulli random variables based on neural networks.
   Anthony Waititu Gichuhi and Jürgen Franke
11 Spatial modelling of Ras protein structures on the cellular membrane.
   Martin Schäfer, Peter Verveer and Katja Ickstadt
12 Model uncertainty in association models.
   S.K. Ghoreishi
13 Schätzung eines Cox Proportional Hazard Modelles mit einem MCMC-Algorithmus.
   Mathias Schaller
14 Initial value routines for dose-response models
   Anke Schulz
15 Assessing the dynamics of renal function in patients with HIV, HBV or HIV/HBV-coinfection with a mixed effects regression model.
   Natalie Filmann, Stefan Mauss, Florian Berger and Eva Herrmann
16 Eine Analyse von Überlebenszeiten bei unterschiedlicher Nachbeobachtungs- 
   dauer in den verglichenen Therapiegruppen - Probleme und Lösungen bei der 
   statistischen Auswertung der klinischen Studie “MTX Withdrawal in JIA”.
   Joachim Gerß, Nico Wulffraat, Lucy R. Wedderburn, Nicolino Ruperto, 
   Helmut Wittkowski, Michael Frosch and Dirk Föll
17 The search for cueing in medical multiple-choice tests with logistic regression.
   Dennis Toddenroth, Martin Dugas and Thomas Frankewitsch
18 Einfluss der Intervallbreite auf die Schätzung der Parameter einer 
   Mischverteilung.
   Joanna Wengrzik and Jürgen Timm
19 Influence of short-term exposure to ultra-fine particles on systemic inflammatory markers.
   Sabine Hertel
20 Statistical Analysis of Neuroeconomic Data.
   Alena Mysickova, Peter N.C. Mohr, Song Song, Wolfgang K. Härdle and 
   Hauke R. Heekeren
21 Kostensensitive Klassifikation von histologischen Subtypen des Lungenkarzinoms.
   Swaantje Casjens
22 Die Daten der gesetzlichen Krankenversicherung (GKV).
   Patricia Lugert
23 Rob2stage, ein R-Paket zur Planung und Auswertung robuster zweistufiger Fall-Kontroll-basierter genomweiter Assoziationsstudien (GWAS).
   *Thuy Trang Nguyen, Pahl Roman and Helmut Schäfer*

24 Correction for tuning-bias in resampling-based error rate estimation.
   *Christoph Bernau and Anne-Laure Boulesteix*

25 Effect of pre-existing mutations on the risk of developing further drug resistant mutations in HIV.
   *Glenn Lawyer, Alexander Thielen, André Altmann and Thomas Lengauer*

26 Improving Interpretability of Survival Models with Gene Groups as Covariates.
   *Kai Kammers and Jörg Rahnenführer*

27 Temporal Activation Profiles of Gene Groups.
   *André König and Jörg Rahnenführer*

28 Generalizations of the polar and the rejecting polar methods for generating p-generalized Gaussian distributed random variables.
   *Wolf-Dieter Richter and Steve Kalke*

29 A generalization of the Jarque-Bera test using the bootstrap method.
   *Saeid Amiri*

30 Assessing approximative algorithms for calculating Spearman’s rank correlation coefficient for moderate sample size in the case of ties.
   *Eva Herrmann, Mubbashir Ahmed, Murat Shahrashoub, Andreas Orth and Hanns Ackermann*

31 Computing Rectangle Probabilities for Markov-Increments.
   *Jannis Dimitriadis*

32 On the Unsupervised and the Supervised Learning of a Model Classification Task.
   *Eugen Grycko*

33 On the estimation of M4 processes through mixture Dirichlet process models.
   *Rodrigo Herrera*

34 From individual-level credit scoring to regional: monitoring problematic consumer debt with joint multilevel modelling.
   *Alesia Stanislavovna Khudnitskaya*

35 Kombinierte Firmendaten für Deutschland.
   *Sandro L’Assainato and Michael Konold*

36 Modelling coloured residual noise.
   *Christian Röver, Renate Meyer and Nelson Christensen*
37 Optimal reconstruction from samples for continuous and discrete signals: an statistical approach.  
*Alvaro Guevara and Rudolf Mester*

38 Application of IRT in mental disorder research – An Example.  
*Sonja Hahn, Sascha Göner and Rainer Leonhart*

39 Marginal Maximum Likelihood Estimation and an Application of a Multi-dimensional Item Response Model.  
*Tiago M. Fragoso and Mariana Cúri*

40 Skills and Competencies models in Knowledge Space Theory: The R-package skills.  
*Angela Haidinger and Ali Ünlü*

41 Wavelet based confirmatory factor analysis of longitudinal data for studying evolution of latent factors influences.  
*Pavel Alekseevich Marmalyuk*

42 dcemri: R package for medical image analysis.  
*Brandon Whitcher, Andrew Thornton and Volker J. Schmid*

43 Varianten der Melanocortin-4 Rezeptor Genregion bei adipösen Teilnehmern eines Gewichtsreduktionsprogramms für Kinder und Jugendliche.  
*Tanja Boes, Carla I.G. Vogel, André Scherag, Susann Scherag, Anke Hinney, Johannes Hebebrand, Thomas Reinehr, Christian L. Roth and Karl-Heinz Jöckel*

44 Multi input tandem queuing under priority service rule.  
*A. Khodadadi*

45 Handling of values below the lower limit of quantification.  
*John-Philip Lawo*

46 Berufsbegleitender Masterstudiengang “Medical Biometry/Biostatistics” der Universität Heidelberg.  
*Meinhard Kieser, Andreas Deckert and Geraldine Rauch*

47 Der Bachelorstudiengang Mathematische Biometrie an der Universität Ulm.  
*Rainer Muche, Ulrich Stadtmüller and Hartmut Lanzinger*

48 Visualization of Characteristics of a Statistics Department.  
*Claus Weihs, Magdalena Thöne and Nils Raabe*

49 Von Dortmund in die ganze Welt - Alumni der Fakultät Statistik.  
*Vorstand Alumni-Verein Dortmunder Statistikerinnen und Statistiker, Magdalena Thöne and Karsten Lübke*
**Thursday, March 25th, 8:50 – 10:10**

### EaPSiS01: Education and Professional Development in Statistics

**Time:** Thursday, March 25th, 8:50 – 10:10  
**Session Chair:** Joachim Engel  
**Room:** M/E 28

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>8:50 – 9:10</td>
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<tr>
<td>9:30 – 9:50</td>
<td>eFOMstat: Emailbasierte Lernfortschrittskontrolle.</td>
<td>Karsten Lübke</td>
</tr>
<tr>
<td>9:50 – 10:10</td>
<td>Bootstrap and Anwendungen in R: Eine didaktische Aufbereitung.</td>
<td>Klemens Weigl and Ali Ünlü</td>
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</tbody>
</table>

### SMiBI05: Statistical Methods in Bioinformatics

**Time:** Thursday, March 25th, 8:50 – 10:10  
**Session Chair:** Nicole Radde  
**Room:** M/E 29

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>8:50 – 9:10</td>
<td>Identification of DNA copy number biomarkers in cancer.</td>
<td>Laura Maria Tolosi</td>
</tr>
<tr>
<td>9:10 – 9:30</td>
<td>Genome-wide identification of prognostic genes with bimodal expression distribution from gene array data.</td>
<td>Birte Hellwig, Jan G. Hengstler, Marcus Schmidt and Jörg Rahnenführer</td>
</tr>
<tr>
<td>9:30 – 9:50</td>
<td>A statistical model for the genome-wide detection of epistatic interactions.</td>
<td>Marit Ackermann and Andreas Beyer</td>
</tr>
<tr>
<td>9:50 – 10:10</td>
<td>Exploratory Analysis of Multiple Omics Data Sets Using the Adjusted RV Coefficient.</td>
<td>Claus-Dieter Mayer, Julie Lorent and Graham Horgan</td>
</tr>
</tbody>
</table>

### CT04: Clinical Trials

**Time:** Thursday, March 25th, 8:50 – 10:10  
**Invited Speaker:** Andrew Grieve  
**Session Chair:** Joachim Röhmel  
**Room:** Audimax

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<tr>
<td>9:10 – 9:30</td>
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<tr>
<td>9:30 – 10:10</td>
<td>A view on regulatory opinions about missing data in clinical trials.</td>
<td>Andrew Grieve</td>
</tr>
</tbody>
</table>
**D02: Demography**

**Time:** Thursday, March 25th, 8:50 – 10:10

**Session Chair:** E.-Jürgen Flöthmann

**Room:** HG II – HS 2

8:50 – 9:10

9:10 – 9:30 Prognosen des Pflegebedarfs.  
*Dagmar Pattloch*

*Emanuel Becklas*

*Kerstin Schmidtke*

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**RM08: Regression Models**

**Time:** Thursday, March 25th, 8:50 – 10:10

**Session Chair:** Michael Höhle

**Room:** HG II – HS 3

8:50 – 9:10

9:10 – 9:30 Expectile Smoothing.  
*Sabine K. Schnabel and Paul H.C. Eilers*

9:30 – 9:50 Geoadditive Expectile Regression.  
*Fabian Sobotka and Thomas Kneib*

9:50 – 10:10 Monotone semi-parametric B-spline quantile regression estimation and forecasting of sales from weekly store level scanner panel data.  
*Harry Haupt and Kathrin Kagerer*

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**SigA01: Signal Analysis**

**Time:** Thursday, March 25th, 8:50 – 10:10

**Invited Speaker:** Torbjörn Eltoft

**Session Chair:** Rainer Martin

**Room:** HG II – HS 4

8:50 – 9:30 Methodologies for non-Gaussian modelling in signal and image processing.  
*Torbjörn Eltoft*

*Timo Gerkmann and Rainer Martin*

*Rainer Martin*
EF03: Empirical Finance

**Time:** Thursday, March 25th, 8:50 – 10:10

**Session Chair:** Shih-Feng Huang  
**Room:** HG II – HS 5

8:50 – 9:10 Forecasting High Dimensional Covariance Matrices via a Mixed-Frequency Unobserved Factor Model.  
*Lada Maria Kyj and Nikolaus Hautsch*

*Uta Pigorsch, Stefan Mittnik and Christian Pigorsch*

*Bastian Gribisch and Roman Liesenfeld*

*Stefan Klößner*

BM02: Bayesian Methods

**Time:** Thursday, March 25th, 8:50 – 10:10

**Session Chair:** Helga Wagner  
**Room:** HG II – HS 6

8:50 – 9:10 Spatio-Temporal Modeling of First-Pass Perfusion Cardiovascular MRI.  
*Volker Schmid*

9:10 – 9:30 Stochastically Ordered Multiple Regression.  
*Björn Bornkamp, Katja Ickstadt and David Dunson*

9:30 – 9:50 Additive mixed models with Dirichlet process mixture and P-Spline priors.  
*Felix Heinzl*

9:50 – 10:10 Correlated Multivariate Age-Period-Cohort Models.  
*Leonhard Held, Andrea Riebler and Havard Rue*

Thursday, March 25th, 10:40 – 12:00

EaPSiS02: Education and Professional Development in Statistics

**Time:** Thursday, March 25th, 10:40 – 12:00

**Session Chair:** Ulrich Rendtel  
**Room:** M/E 28

10:40 – 11:00 Daten und Zufall als einende (Leit-)Idee.  
*Andreas Eichler and Markus Vogel*

11:00 – 11:20 Regression und Korrelation: Alles klar, oder voller Tücken?  
*Joachim Engel*

11:20 – 11:40 Regression und Korrelation - die Konzepte und ihre Interpretation.  
*Manfred Borovcnik*

11:40 – 12:00 Ein Statistik-Portal für die Schule!  
*Rolf Biehler, Göran Kauermann and Hans Peter Wolf*
### SMiBI06: Statistical Methods in Bioinformatics

**Time:** Thursday, March 25th, 10:40 – 12:00  
**Session Chair:** Tim Beißbarth  
**Room:** M/E 29

<table>
<thead>
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<th>Time</th>
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<tbody>
<tr>
<td>10:40 – 11:00</td>
<td>Finding biomarker signatures in pooled sample designs.</td>
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<tr>
<td></td>
<td><em>Anna Telaar</em></td>
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<tr>
<td>11:00 – 11:20</td>
<td>Identification and Validation of Predictive Biomarkers.</td>
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<td><em>Wiebke Werft, Manuela Zucknick, Thomas Hielscher and Axel Benner</em></td>
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<tr>
<td>11:20 – 11:40</td>
<td>Sample size issues when building prognostic models from microarray experiments.</td>
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<td><em>Manuela Zucknick, Thomas Hielscher, Wiebke Werft and Axel Benner</em></td>
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<tr>
<td>11:40 – 12:00</td>
<td>Fallzahlplanung für Vorhersagemodelle bei hochdimensionalen Überlebenszeitdaten.</td>
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<td><em>Heiko Götte and Isabella Zwiener</em></td>
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### CT05: Clinical Trials

**Time:** Thursday, March 25th, 10:40 – 12:00  
**Invited Speaker:** Anne Whitehead and Werner Brannath  
**Session Chair:** Tim Friede  
**Room:** Audimax

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<tr>
<td></td>
<td><em>Anne Whitehead</em></td>
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<tr>
<td>11:20 – 11:40</td>
<td>Designing a Seamless Phase II/III Clinical Trial using Early Outcomes for Treatment Selection with an Application in Multiple Sclerosis.</td>
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<td><em>Tim Friede, Nicholas Parsons, Nigel Stallard, Susan Todd, Elsa Valdes Marquez, Jeremy Chataway and Richard Nicholas</em></td>
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<tr>
<td>11:40 – 12:00</td>
<td>Challenges in adaptive phase II/III dose finding oncology studies.</td>
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<td><em>Werner Brannath</em></td>
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### EER01: Empirical Educational Research

**Time:** Thursday, March 25th, 10:40 – 12:00  
**Session Chair:** Sigbert Klinke  
**Room:** HG II – HS 2

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<tr>
<td>10:40 – 11:00</td>
<td>Empirische Modellforschung: Methodologische Standards in der Diagnose und dem Vergleich von Wissen und Entscheidungen.</td>
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<td><em>Dirk Ifenthaler</em></td>
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<td>11:00 – 11:20</td>
<td>Wirtschaftskundliches Wissen im Längsschnitt - seine Messung und Prädiktoren im Projekt ILLEV.</td>
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<tr>
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<td><em>Manuel Förster</em></td>
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<td><em>Daja Preuße and Sigbert Klinke</em></td>
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MDA01: Multivariate Data Analysis

**Time:** Thursday, March 25th, 10:40 – 12:00

**Session Chair:** Christine Müller

**Room:** HG II – HS 3

10:40 – 11:00 Weighted-mean trimming of multivariate data.  
*Rainer Dyckerhoff and Karl Mosler*

11:00 – 11:20 Exact calculation of weighted-mean trimmed regions in any dimension.  
*Pavel Bazovkin and Karl Mosler*

*Paul Eilers*

11:40 – 12:00 On Easily Interpretable Multivariate Reference Regions of Rectangular Shape.  
*Stefan Wellek*

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SigA02: Signal Analysis

**Time:** Thursday, March 25th, 10:40 – 12:00

**Invited Speaker:** Laurenz Wiskott

**Session Chair:** Rainer Martin

**Room:** HG II – HS 4

*Laurenz Wiskott, Minh Ha-Quang, Henning Sprekeler and Tiziano Zito*

*Matthias Tuma and Christian Igel*

11:40 – 12:00 Temporal Feature Reduction for Music Classification Based on Musical Events and Song Structure.  
*Igor Vatolkin, Wolfgang Theimer, Martin Botteck and Antti Eronen*

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SatGP02: Statistics and the General Public

**Time:** Thursday, March 25th, 10:40 – 12:00

**Invited Speaker:** Hans Wolfgang Brachinger

**Session Chair:** Walter Krämer

**Room:** HG II – HS 5

*Hans Wolfgang Brachinger*

*Thomas Riede*

11:40 – 12:00 Statistik als Bürgerpflicht? Einige Anmerkungen zum modernen Innumera-  
tentum und was man dagegen tut.  
*Walter Krämer*
BM03: Bayesian Methods

Time: Thursday, March 25th, 10:40 – 12:00

Session Chair: André Scherag

Room: HG II – HS 6

10:40 – 11:00 Bayesian Analysis of Movement Data and Spatial Heterogeneity.
Svetlana Tishkovskaya and Paul Blackwell

11:00 – 11:20 Fitting complex spatial point process models with integrated nested Laplace approximation.
Janine Illian

Birgit Schrödle and Leonhard Held

11:40 – 12:00 Fusing Space-time Data under Measurement Error for Computer Model Output.
Veronica Janileth Berrocal, Alan E. Gelfand and David M. Holland

FS01: Fachgruppe Stochastik

Time: Thursday, March 25th, 10:40 – 12:00

Invited Speaker: Tilmann Gneiting and Natalie Neumeyer

Session Chair: Jens-Peter Kreiss

Room: HG II – HS 7

10:40 – 11:20 Making and Evaluating Point Forecasts.
Tilmann Gneiting

11:20 – 12:00 Testing for monotonicity of nonparametric (mean or quantile) regression functions.
Natalie Neumeyer

Thursday, March 25th, 13:30 – 14:30

Plenary04: Plenary Talk

Time: Thursday, March 25th, 13:30 – 14:30

Invited Speaker: Nanny Wermuth

Session Chair: Richardus Vonk

Room: Audimax

Nanny Wermuth
Thursday, March 25th, 14:40 – 15:40

SMiBI07 Statistical Methods in Bioinformatics

**Time:** Thursday, March 25th, 14:40 – 15:40

**Session Chair:** Klaus Jung

**Room:** M/E 29

14:40 – 15:00  Testing the additional predictive value of high-dimensional molecular data.  
*Anne-Laure Boulesteix and Torsten Hothorn*

15:00 – 15:20  Incorporating Gene Ontology knowledge into boosting of high-dimensional survival models  
*Christine Porzelius, Tim Bißbarth, Marc Johannes, Martin Schumacher and Harald Binder*

15:20 – 15:40  Incorporating external molecular knowledge via fast algorithms for the Fused Lasso.  
*Holger Höfling, Harald Binder and Martin Schumacher*

Award IBS-DR Award Ceremony IBS-DR

**Time:** Thursday, March 25th, 14:40 – 15:40

**Room:** Audimax

1  Short talks of winners of the Lienert-Preis:  
*Björn Bornkamp (Dortmund), Jutta Groos (Heidelberg), Michael Höhle (München)*

2  Winners of the Bernd-Streitberg-Preis:  
*Silke Szymczak (Lübeck), Stefanie Hieke (Freiburg), Esther Herberich (München), Lisa Möst (München)*

CS01: Computational Statistics

**Time:** Thursday, March 25th, 14:40 – 15:40

**Session Chair:** Achim Zeileis

**Room:** HG II – HS 2

14:40 – 15:00  Integration of Preferences in Hypervolume-Based Multi-Objective Evolutionary Algorithms by Means of Desirability Functions.  
*Heike Trautmann*

15:00 – 15:20  The Flood Algorithm - A Multivariate, Self-Organizing-Map-based, Robust Location and Covariance Estimator – Computational Results –  
*Steffen Liebscher, Thomas Kirschstein and Claudia Becker*

*Steve Kalke and Wolf-Dieter Richter*
### MDA02: Multivariate Data Analysis

**Time:** Thursday, March 25th, 14:40 – 15:40  
**Room:** HG II – HS 3

**Session Chair:** Rainer Dyckerhoff

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>14:40 – 15:00</td>
<td>Principal Component Based Methods for Comparing High-Dimensional Data.</td>
<td><em>Guo-Chun Ding, Holger Heuer, Kornelia Smalla and Siegfried Kropf</em></td>
</tr>
<tr>
<td>15:00 – 15:20</td>
<td>Testing for sphericity instead of testing for null means in multivariate analysis - a new and very effective principle.</td>
<td><em>Jürgen Läuter and Maciej Rosolowski</em></td>
</tr>
<tr>
<td>15:20 – 15:40</td>
<td>Monotone Bandtiefen für Lage und Steigung von Funktionen.</td>
<td><em>Yulia Polyakova and Karl Mosler</em></td>
</tr>
</tbody>
</table>

### SigA03: Signal Analysis

**Time:** Thursday, March 25th, 14:40 – 15:40  
**Room:** HG II – HS 4

**Session Chair:** Wolfgang Theimer

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>14:40 – 15:00</td>
<td>Musical Instrument Recognition by High-level Features.</td>
<td><em>Markus Eichhoff and Claus Weihs</em></td>
</tr>
<tr>
<td>15:00 – 15:20</td>
<td>Statistical Properties of Cepstral Modulation Features for Audio Signal Analysis.</td>
<td><em>Anil Nagathil and Rainer Martin</em></td>
</tr>
<tr>
<td>15:20 – 15:40</td>
<td>Auralization of auditory models.</td>
<td><em>Klaus Friedrichs and Claus Weihs</em></td>
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</table>

### EF04: Empirical Finance

**Time:** Thursday, March 25th, 14:40 – 15:40  
**Invited Speaker:** Ying Chen  
**Session Chair:** Jeannette H.C. Woerner  
**Room:** HG II – HS 5

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>14:40 – 15:20</td>
<td>Localized Realized Volatility Modelling.</td>
<td><em>Ying Chen, Wolfgang Karl Härdle and Uta Pigorsch</em></td>
</tr>
<tr>
<td>15:20 – 15:40</td>
<td>Forecasting the Value-at-Risk of Multidimensional Portfolios Using Dynamical Pair-Copulas.</td>
<td><em>Julius Schnieders</em></td>
</tr>
</tbody>
</table>
Thursday, March 25th, 16:10 – 17:30

**IBS-DR: General Meeting IBS-DR**

**Time:** Thursday, March 25th, 16:15 – 17:30  
**Room:** Audimax

**OT04: Open Topics, Statistics in Everyday Life**

**Time:** Thursday, March 25th, 16:10 – 17:30  
**Session Chair:** Ali Ünlü  
**Room:** HG II – HS 3

16:10 – 16:30  Penalty Specialists Among Goalkeepers - A Nonparametric Bayesian Analysis of 46 Years of the German Bundesliga.  
*Arno Fritsch, Björn Bornkamp, Oliver Kuss and Katja Ickstadt*

16:30 – 16:50  A Statistical Approach To Detect Cheating Interviewers.  
*Sebastian Bredl, Peter Winker and Kerstin Kötschau*

*Sigbert Klinke*

17:10 – 17:30

**EF05: Empirical Finance**

**Time:** Thursday, March 25th, 16:10 – 17:30  
**Session Chair:** Wolfgang Härdle  
**Room:** HG II – HS 5

16:10 – 16:30  A Consistent Nonparametric Test for Causality in Quantile.  
*Kiho Jeong, Wolfgang Härdle and Song Song*

16:30 – 16:50  Bayesian analysis of multi-state event history data.  
*Rafael Weißbach, Yongdai Kim and Lancelot James*

16:50 – 17:10  A Multivariate Ornstein-Uhlenbeck Type Stochastic Volatility Model.  
*Christian Pigorsch*

17:10 – 17:30  From Surveys to Predictive Distributions: Probabilistic Inflation Forecasts via Ensemble Postprocessing.  
*Thordis Thorarinsdottir and Tilmann Gneiting*
Friday, March 25th, 8:50 – 10:10

**SiP01: Statistics in Practice**

**Time:** Friday, March 26th, 8:50 – 10:10  

**Invited Speaker:** James Carpenter  

**Session Chair:** Willi Sauerbrei  

**Room:** M/E 28

8:50 – 10:10 Handling of Missing Data I  

*James Carpenter*

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**SMiBI08: Statistical Methods in Bioinformatics**

**Time:** Friday, March 26th, 8:50 – 10:10

**Session Chair:** Harald Binder  

**Room:** M/E 29

8:50 – 9:10

9:10 – 9:30 Identifizierung neuer, prognostisch relevanter Metagene in Brustkrebsdaten.  

_Evgenia Freis, Silvia Selinski, Jan G. Hengstler and Katja Ickstadt_


_Christian Netzer and Jörg Rahnenführer_

9:50 – 10:10 A dynamic model for RNA decay by the archaeal exosome: parameter identification by MCMC.  

_Theresa Niederberger and Achim Tresch_

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**CT06: Clinical Trials**

**Time:** Friday, March 26th, 8:50 – 10:10

**Session Chair:** Andreas Faldum  

**Room:** Audimax

8:50 – 9:10

9:10 – 9:30 Hierarchical testing of multiple endpoints in group-sequential trials.  

_Ekkehard Glimm, Willi Maurer and Frank Bretz_

9:30 – 9:50 An Adaptive Group Sequential Design for Better Treatment in Rare Cancer Types.  

_Christina Wunder and Lutz Edler_

9:50 – 10:10 Test Procedures for the Assessment of the Components of Composite Endpoints.  

_Geraldine Rauch and Meinhard Kieser_
## CS02: Computational Statistics

**Time:** Friday, March 26th, 8:50 – 10:10  
**Session Chair:** Uwe Ligges  
**Room:** HG II – HS 2

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>8:50 – 9:10</td>
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<tr>
<td>9:30 – 9:50</td>
<td>Nonparametric analysis of functional form in multiple regression with mixed data using R.</td>
<td>Harry Haupt, Joachim Schnurbus and Rolf Tschernig</td>
</tr>
<tr>
<td>9:50 – 10:10</td>
<td>Bounding the bias of Contrastive Divergence used for maximum likelihood learning in Restricted Boltzmann Machines.</td>
<td>Asja Fischer and Christian Igel</td>
</tr>
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</table>

## MDA03: Multivariate Data Analysis

**Time:** Friday, March 26th, 8:50 – 10:10  
**Session Chair:** Hannu Oja  
**Room:** HG II – HS 3

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>8:50 – 9:10</td>
<td>Dimension reduction based on extreme dependence.</td>
<td>Stephan Haug, Claudia Klüppelberg and Gabriel Kuhn</td>
</tr>
<tr>
<td>9:10 – 9:30</td>
<td>Elliptical graphical modelling.</td>
<td>Daniel Vogel and Roland Fried</td>
</tr>
<tr>
<td>9:30 – 9:50</td>
<td>A Generalization of Tyler's M-Estimators to the Case of Incomplete Data.</td>
<td>Gabriel Frahm and Uwe Jaekel</td>
</tr>
</tbody>
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## OT05: Open Topics

**Time:** Friday, March 26th, 8:50 – 10:10  
**Session Chair:** Janine Illian  
**Room:** HG II – HS 4

<table>
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<tr>
<td>9:10 – 9:30</td>
<td>Statistics in the Circle of Research Induction, Information and Invariance.</td>
<td>Uwe Saint-Mont</td>
</tr>
<tr>
<td>9:50 – 10:10</td>
<td>The LMS Method to Determine Reference Ranges and z-Scores.</td>
<td>Manfred Berres and Jana Kotzmann</td>
</tr>
</tbody>
</table>
MaEPE01: Microeconometrics and Econometric Policy Evaluation

**Time:** Friday, March 26th, 8:50 – 10:10

**Invited Speaker:** Horst Entorf

**Session Chair:** Olaf Hübler

**Room:** HG II – HS 5

8:50 – 9:30 Being Young and Criminal: What a Difference Penal Law Makes.
*Horst Entorf, Stefan Pichler and Daniel Römer*

*Christian Dustmann, Patrick Puhani and Uta Schönberg*

*Gerd Ronning*

BM04: Bayesian Methods

**Time:** Friday, March 26th, 8:50 – 10:10

**Invited Speaker:** Enrique ter Horst

**Session Chair:** Katja Ickstadt

**Room:** HG II – HS 6

8:50 – 9:30 Stochastic Volatility Models Including Open, Close, High and Low Prices.
*Enrique ter Horst, Abel Rodriguez, Henryk Gzyl and German Molina*

9:30 – 9:50 Classical and Bayesian methods for completing data in space-time panel models.
*Wolfgang Polasek*

9:50 – 10:10 A new Bayesian approach to nonlinear structural equation models with non-normally distributed latent predictor variables.
*Augustin Kelava and Benjamin Nagengast*

CaCR01: Clustering and Classification Rules

**Time:** Friday, March 26th, 8:50 – 10:10

**Invited Speaker:** Rosanna Verde

**Session Chair:** Claus Weihs

**Room:** HG II – HS 7

8:50 – 9:30 Clustering for Data Streams.
*Rosanna Verde*

*Bernd Fellinghauer, Martin Ryffel and Peter Bühlmann*

9:50 – 10:10 Ordinal clustering.
*Karsten Keller*
Friday, March 26th, 10:40 – 12:00

SiP02: Statistics in Practice

Time: Friday, March 26th, 10:40 – 12:00
Invited Speaker: James Carpenter
Session Chair: Willi Sauerbrei

Room: M/E 28

10:40 – 12:00 Handling of Missing Data II.
   James Carpenter

SMiBI09 Statistical Methods in Bioinformatics

Time: Friday, March 26th, 10:40 – 12:00
Session Chair: Ulrich Mansmann

Room: M/E 29

10:40 – 11:00

11:00 – 11:20 Comparison of Different Rank List Aggregation Methods on miRNA Expression Data.
   Alena Mysickova, Akdes Serin, Shengyu Ni and Martin Vingron

11:20 – 11:40 Comparing pre-processing methods of Affymetrix microarray data.
   Rohmatul Fajriyah, Andrew Harrison and Berthold Lausen

11:40 – 12:00 Comparison of Global Tests for Group Effects in the Expression Profile of Gene Subsets.
   Klaus Jung, Edgar Brunner and Tim Beißbarth

CT07 Clinical Trials

Time: Friday, March 26th, 10:40 – 12:00
Session Chair: Ekkehard Glimm

Room: Audimax

10:40 – 11:00

11:00 – 11:20 Stochastic Curtailment in Two-stage Designs for Phase II Studies with Two Binary Endpoints.
   Cornelia Ursula Kunz and Meinhard Kieser

11:20 – 11:40 Ein modifizierter Kombinationstest für die Analyse klinischer Studien.
   Ann-Kristin Leuchs and Markus Neuhäuser

11:40 – 12:00 Adaptive Designs for Discrete Test Statistics.
   Christian Ruckes, Gerhard Hommel and Andreas Faldum
CS03: Computational Statistics

**Time:** Friday, March 26th, 10:40 – 12:00

**Invited Speaker:** Achim Zeileis

**Session Chair:** Torsten Hothorn

**Room:** HG II – HS 2

10:40 – 11:00 Benchmarking optimization algorithms.
   *Olaf Mersmann, Heike Trautmann, Boris Naujoks and Claus Weihs*

11:00 – 11:20 mlr: A new Package to conduct Machine Learning Experiments in R.
   *Bernd Bischl*

11:20 – 12:00 Of Topmodels and Beautiful Professors: Capturing Model Heterogeneity by Recursive Partitioning.
   *Achim Zeileis*

MDA04: Multivariate Data Analysis

**Time:** Friday, March 26th, 10:40 – 12:00

**Invited Speaker:** Hannu Oja

**Session Chair:** Karl Mosler

**Room:** HG II – HS 3

10:40 – 11:20 Invariant coordinate selection (ICS) and multivariate location, scatter, skewness and kurtosis.
   *Hannu Oja, Pauliina Ilmonen, Jaakko Nevalainen and Klaus Nordhausen*

   *Klaus Nordhausen and Hannu Oja*

11:40 – 12:00 Depth Estimators and Tests for Orthogonal Regression with and without Intercept.
   *Christine Müller*

OT06 Open Topics

**Time:** Friday, March 26th, 10:40 – 12:00

**Session Chair:** Guido Knapp

**Room:** HG II – HS 4

10:40 – 11:00 Berechnung exakter Konfidenzbereiche für Polynomialverteilungen mit zweidimensionalem Parameterraum.
   *Karl-Ernst Biebler, Michael Wodny, Michaela Mattheus and Bernd Jäger*

11:00 – 11:20 Bestimmung von Blindgängerverdachtszonen mittels Punktprozess-Methodik.
   *Monia Mahling, Michael Höhle and Helmut Küchenhoff*

11:20 – 11:40 Configural Frequency Analysis of Social Networks.
   *Angela Bohn, Kurt Hornik, Patrick Mair and Alexander von Eye*

11:40 – 12:00 Hidden Markov Modeling with flexible state-dependent distributions.
   *Jörn Dannemann*
MaEPE02: Microeconometrics and Econometric Policy Evaluation

Time: Friday, March 26th, 10:40 – 12:00

Session Chair: Winfried Pohlmeier

Room: HG II – HS 5

10:40 – 11:00 Propensity score matching estimation.
   Michael Lechner, Martin Huber and Conny Wunsch

11:00 – 11:20 Beschäftigungseffekte verlängerter Wochenarbeitszeiten.
   Martyn Anrews, Hans-Dieter Gerner, Thorsten Schank and Richard Upward

   Sara Kleyer, Johannes Schwarze and Thomas Augustin

11:40 – 12:00 Product policy and the East-West productivity gap.
   Bernd Görzig, Martin Gornig, Ramona Voshage and Axel Werwatz

BM05: Bayesian Methods

Time: Friday, March 26th, 10:40 – 12:00

Session Chair: Björn Bornkamp

Room: HG II – HS 6

10:40 – 11:00 Comparing spike and slab priors for Bayesian variable selection in logit models.
   Helga Wagner

   Fabian Scheipl

11:20 – 11:40 A genome-wide search for imprinted obesity genes using a priori information.
   André Scherag, Ivonne Jarick, Anke Hinney, Bernhard Horsthemke, Karl-Heinz Jöckel and Johannes Hebebrand

11:40 – 12:00 Bayes-Methode zur Kartierung von Imprinting-Effekten in F2-Kreuzungsversuchen mit Inzuchtlinien.
   Ulrike Borchardt and Norbert Reinsch

CaCR02: Clustering and Classification Rules

Time: Friday, March 26th, 10:40 – 12:00

Session Chair: Reinhold Decker

Room: HG II – HS 7

10:40 – 11:00 Local Approaches to Classification.
   Julia Schiffner and Claus Weihs

11:00 – 11:20 Sound feature clustering for automatic instrument separation.
   Sebastian Krey and Uwe Ligges

11:20 – 11:40 Classifying Customers: Are Non-Linear Projections Really Better?
   Ralf Wagner and Silvia Rüter

11:40 – 12:00 Lehrbuchbeispiele für SPSS TwoStep Cluster - Reanalysiert mit AutoClass und LatentGold.
   Knut Wenzig and Arne Bethmann
Friday, March 26th, 12:10 – 13:20

Plenary05: Closing and Plenary Talk

Time: Thursday, March 25th, 12:10 – 13:20

Invited Speaker: Jim Berger

Session Chair: Katja Ickstadt

Room: Audimax


Jim Berger