

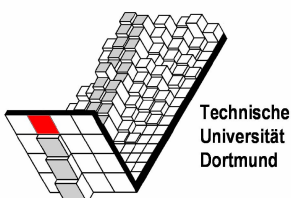
use **R!** 2008

Program

August 12-14, Dortmund, Germany



statistics.com



SFB 475: Reduction of Complexity
in Multivariate Data Structures



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Dear useRs,

the following pages provide you with some useful information about useR! 2008, the R user conference, taking place at the Fakultät Statistik, Technische Universität Dortmund, Germany from 2008-08-12 to 2008-08-14. Pre-conference tutorials will take place on August 11. The conference is organized by the Fakultät Statistik, Technische Universität Dortmund and the Austrian Association for Statistical Computing (AASC).

Apart from challenging and likewise exciting scientific contributions we hope to offer you an attractive conference site and a pleasant social program.

With best regards from the organizing team:

Uwe Ligges (conference), Achim Zeileis (program), Claus Weihs, Gerd Kopp (local organization), Friedrich Leisch, and Torsten Hothorn

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Program Committee

Micah Altman, Roger Bivand, Peter Dalgaard, Jan de Leeuw, Ramón Díaz-Uriarte, Spencer Graves, Leonhard Held, Torsten Hothorn, François Husson, Christian Kleiber, Friedrich Leisch, Andy Liaw, Martin Mächler, Kate Mullen, Ei-ji Nakama, Thomas Petzoldt, Martin Theus, and Heather Turner

Conference Location

Technische Universität Dortmund
Campus Nord
Mathematikgebäude / Audimax
Vogelpothsweg 87
44227 Dortmund

Conference Office

Opening hours:

Monday, August 11: 08:30–19:30
Tuesday, August 12: 08:30–18:30
Wednesday, August 13: 08:30–18:30
Thursday, August 14: 08:30–15:30

Public Transport

The conference site at the university campus and the city hall are best to be reached by public transport. Most of the hotels are close to the main station (the TRYP hotel is in walking distance of the university (15 min), or 3 min on bus 462, Prize Zone A, see page 6), hence a description for this route follows.

From Dortmund main station to the university:

To the conference site, please use the S1 train from Dortmund Hauptbahnhof (main station). The train S1 (direction Düsseldorf) departs from platform 7 every 20 minutes (and arrives after 7 minutes, see timetable below). Exit at 'Dortmund Universität' (third stop). You will need a *Price Zone A* (2.20 EUR) ticket for local transport within Dortmund. Do not forget to stamp it in one of the orange machines (before you board the train!). You might want to take a 4-way ticket (7.70 EUR) in order to save money.

From university to Dortmund main station:

Same as the other way round, just follow the signs to S1 train, direction Dortmund.

From Düsseldorf to conference site or to Dortmund main station:

For the following local transport trains, you will need a *Price Zone D* (10.50 EUR) ticket. Don't forget to stamp it in one of the orange machines (before you board the train!).

- RE1 or RE6 to 'Dortmund Hauptbahnhof' (main station, within the city center; takes roughly 50 minutes).
- S1 to 'Dortmund Hauptbahnhof' (main station, last stop, within the city center; takes roughly 80 minutes). One of its many stops is at the conference site: 'Dortmund Universität'.

Time table for S1 train (valid Mondays to Fridays)

- Dortmund Hauptbahnhof (main station) in direction to Dortmund Universität (conference site) and Düsseldorf from platform 7:

from 04:14 until 18:34	h:14	h:34	h:54
from 19:04 until 23:34	h:04	h:34	
- Dortmund Universität in direction to Dortmund Hauptbahnhof (main station) from platform 1:

from 04:59 until 19:19	h:19	h:39	h:59
from 19:49 until 01:19	h:19	h:49	

Internet

Free WLAN access should be available from most lecture rooms, but probably not for all 400 participants at the same time. Computers and printers are available in rooms U18 (Windows) and U26 (Linux), see page 7.

Information for Speakers

Speakers of contributed talks, please note that your talk is scheduled for **15 minutes** plus discussion. The format of discussion depends on the kind of session you are in:

useR! Kaleidoscope

These sessions with oral presentations of 15 minutes each will give a broad overview of the many different applications and usages of the R system that should appeal to a broader audience. Each talk is directly followed by a discussion.

useR! Focus Sessions

These sessions with oral presentations of 15 minutes each will focus on topics of special interest and their goal is to provoke fruitful discussions in the respective user communities (e.g. Robust Statistics or Econometrics etc.). In focus sessions, plenty of time for discussion is reserved at the end of the whole session (rather than after each talk) to discuss all talks of the topic together.

Technical details

All lecture rooms are equipped with a computer or laptop and an LCD projector. All presenters should have sent a PDF (preferred!) or PPT (Office XP available only) file with their presentation slides to useR-submit@statistik.tu-dortmund.de by 2008-08-01 (unless the presenters use their own laptop for software demonstrations). Additional equipment may be available on request.

Information for Session Chairs

Please make sure that each talk (without discussion) is finished after 15 minutes (25 or 40 minutes for invited lectures) in order to allow time for discussions and guarantee a smooth realization of the schedule.

Lunch Break: Mensa

For lunch you can go to the Mensa Building (see page 6) directly opposite the conference building. There you will find cafeteria 'Galerie', a restaurant 'Vital' with organic food, and the 'Mensa' (main cafeteria).

Opening hours:

Cafeteria Galerie-Treff:	07:30–16:45
Restaurant Vital:	09:00–14:30
Mensa:	11:30–14:15

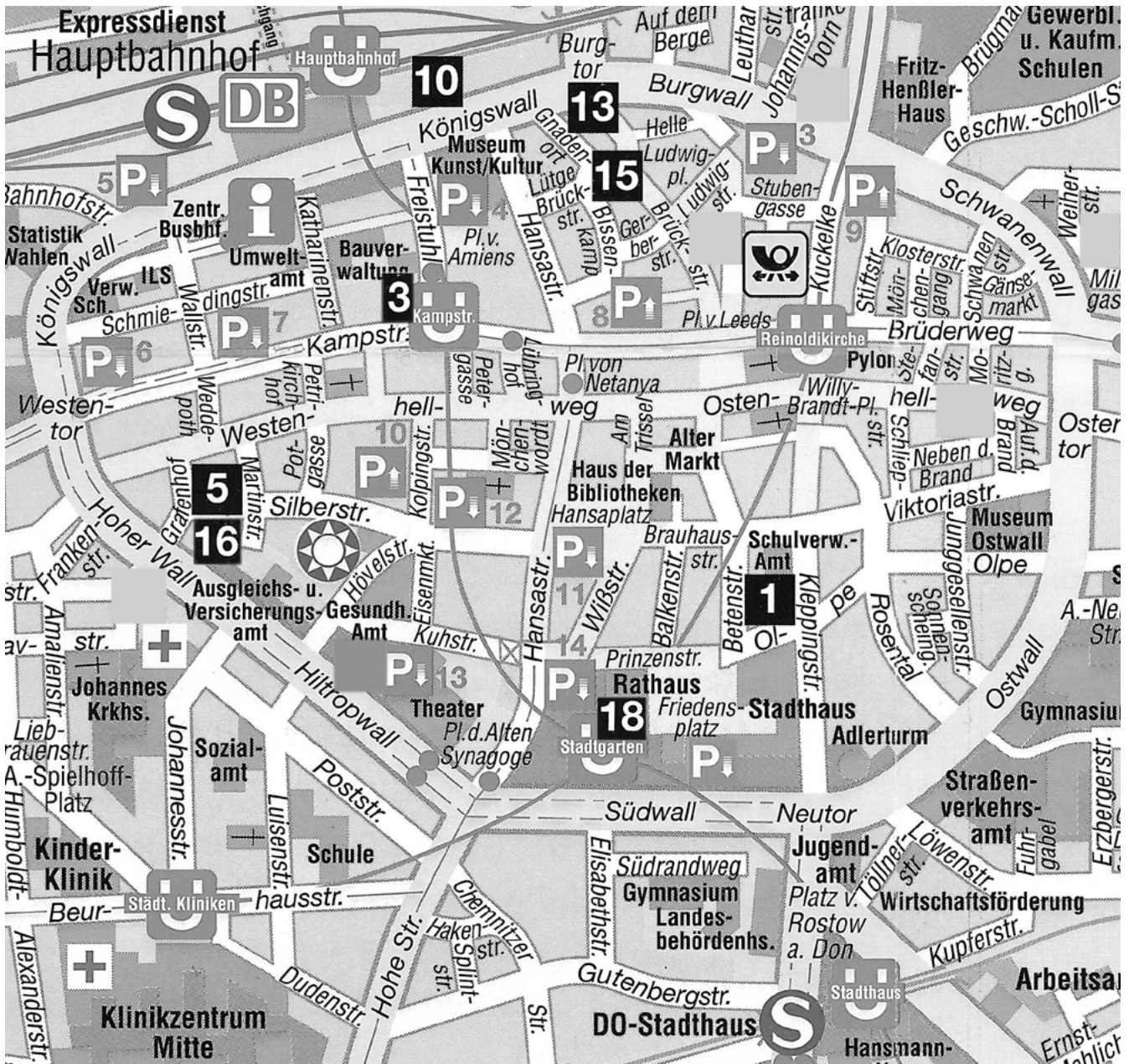
Restaurants and Bars in Dortmund

Dortmund offers a huge amount of bars and restaurants in the city center. You can find different types of restaurants and bars, for example at the 'Alter Markt' (metro station Kampstraße, Stadtgarten or Reinoldikirche) or at the 'Kleppingstraße' (metro station Reinoldikirche).

Sightseeing

If you are interested in sightseeing in and around Dortmund, you may contact the team at the 'DORTMUNDtourismus' stand located opposite the conference office for more information.

Map of Dortmund's city center / hotels



Another city center map is among your conference material.

A larger map is available from the 'DORTMUNDtourismus' stand located opposite the conference office.

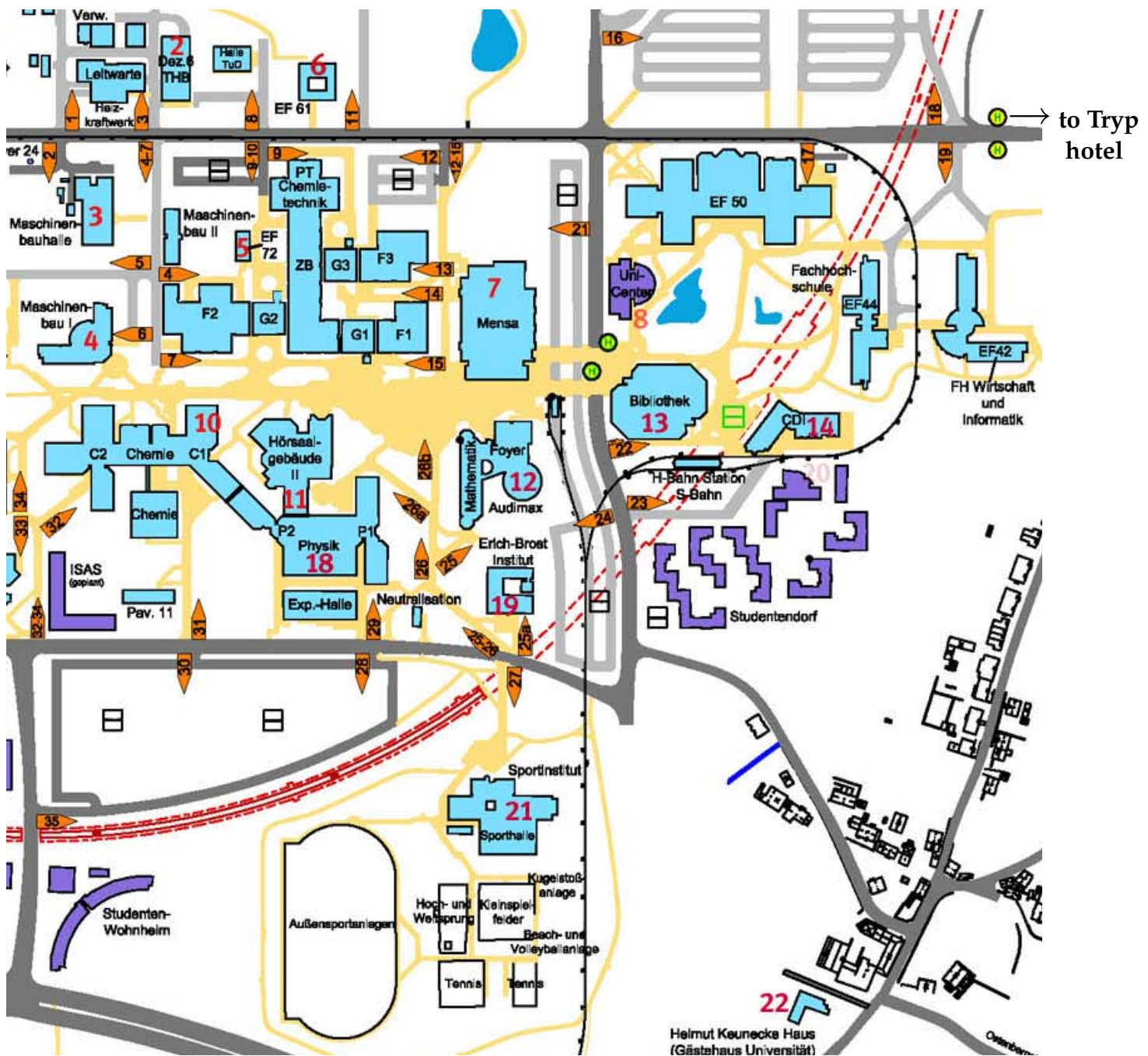
List of Hotels in the city center:

- 1: Holiday Inn City-Centre
- 3: Mercure City
- 5: City-Hotel
- 10: NH Dortmund (formerly Astron Hotel)
- 13: Königshof
- 15: Carlton

Location of Social Program in the city center:

- 18: City Hall

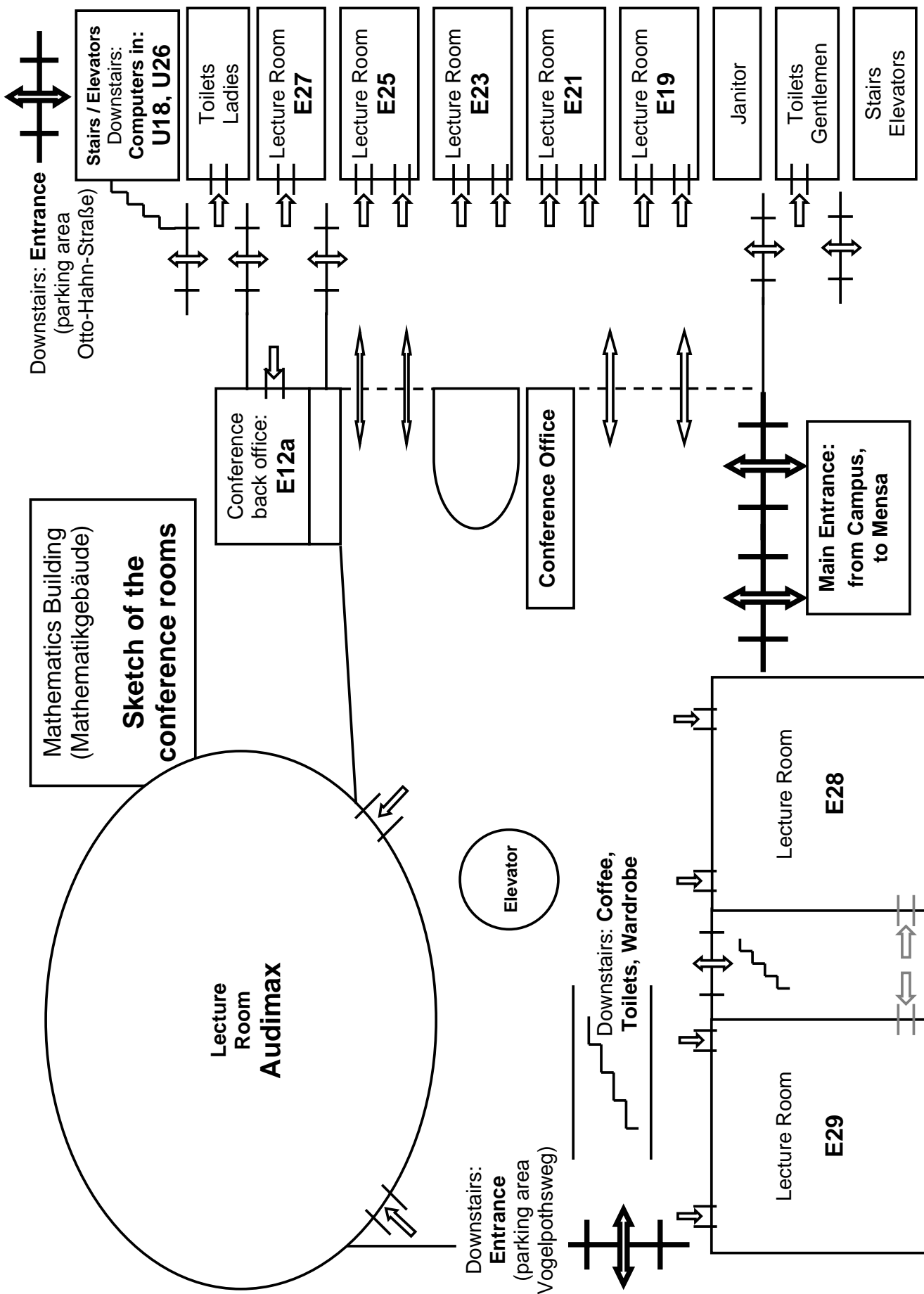
Map of the campus (part of Campus Nord)



List of conference related locations:

- 7: Mensa building
- 12: Conference site (Mathematics Building)
- 13: Library
- 13-14: gray rectangle between buildings 13-14:
S1 trains to Dortmund main station and Düsseldorf airport

Map of conference building / lecture rooms



Social Program

Monday	17:30–19:30	Welcome Mixer
Tuesday	19:00–20:00	Official reception at the Dortmund City Hall
Wednesday	19:00–...	Conference Dinner

Welcome Mixer (Monday, August 11, 17:30 – 19:30)

at the university (Audimax foyer, address: Vogelpothsweg 87, 44227 Dortmund).

During the welcome mixer (included in your conference fees), you can already meet other conference participants for first discussions and register for the conference.

Official Reception (Tuesday, August 12, 19:00 – 20:00)

at the Dortmund City Hall (Rathaus) by Dortmund's lord mayor Dr. phil. Gerhard Langemeyer (included in your conference fees; address: Friedensplatz 1, 44135 Dortmund).

After the reception, you can continue discussions in various restaurants and pubs in Dortmund's city center, e.g. at the 'Alter Markt' (marketplace) close to the city hall.

Please use *public transport* (see also page 3) to go to the city hall:

- From the conference site, please use the S1 train to Dortmund Hauptbahnhof (main station). S1 departs at University at 17:59, 18:19 and 18:39. You will need a *Price Zone A* ticket for local transport within Dortmund. Do not forget to stamp it in one of the orange machines (before you board the train!). You might want to take a 4-way ticket in advance in order to save money and to speed up the boarding procedure before the reception.
- From the main station you can either
 - walk through the city within 15 minutes to the city hall or
 - take any underground line from the *underground station* (marked with a blue 'U') at platform 1. Please exit at the second stop: 'Stadtgarten'.

Conference Dinner (Wednesday, August 13, 19:00 – ...; buses depart at 18:30)

in the VIP lounge of the famous home ground of Borussia Dortmund, the Football Stadium 'Signal Iduna Park' (formerly known as 'Westfalenstadion'; address: Strobiallee 50, 44139 Dortmund).

For those who booked a dinner ticket (a few are left to be sold during the conference), we arranged a *bus transfer* departing 18:30 (!) from the conference site. Please make sure to be there in time!

Bus transfer back to the TRYP hotel and major hotels in the city center has been arranged as well (regularly, at least from 22:00 to 23:59).

It is also possible (but more difficult from the conference site) to go there by public transport (e.g. metro line U47), of course.

Tutorials

On Monday, August 11, there are several half-day tutorials held at the conference site:

Morning, 09:00–12:30 (coffee break: 10:30-11:00)

- Douglas Bates: *Mixed Effects Models* (Room: E28)
- Julie Josse, François Husson, Sébastien Lê: *Exploratory Data Analysis* (Room: E23)
- Martin Mächler, Elvezio Ronchetti: *Introduction to Robust Statistics with R* (Room: E21)
- Jim Porzak: *Using R for Customer Segmentation* (Room: E25)
- Stefan Rüping, Michael Mock, and Dennis Wegener: *Distributed Data Analysis using R* (Room: E19)
- Jing Hua Zhao: *Analysis of Complex Traits using R: Case studies* (Room: E27)

Afternoon, 14:00–17:30 (coffee break: 15:30-16:00)

- Karim Chine: *Distributed R and Bioconductor for the Web* (Room: E25)
- Dirk Eddelbuettel: *An Introduction to High-Performance R* (Room: E29)
- Andrea S. Foulkes: *Analysis of Complex Traits using R: Statistical Applications* (Room: E23)
- Virgilio Gómez-Rubio: *Small Area Estimation with R* (Room: E27)
- Frank E. Harrell jr.: *Regression Modelling Strategies* (Room: E28)
- Sébastien Lê, Julie Josse, François Husson: *Multiway Data Analysis* (Room: E21)
- Bernhard Pfaff: *Analysis of Integrated and Co-integrated Time Series* (Room: E19)

Program Overview

Time	Tuesday, Aug 12	Time	Wednesday, Aug 13	Time	Thursday, Aug 14
08:30 - 09:00	Registration	08:30 - 09:00	Registration	08:30 - 09:00	Registration
09:00 - 09:30	Welcome (Audimax)	09:00 - 09:45	Invited Lecture (Audimax): Peter Bühlmann: Computationally Tractable Methods for High-Dimensional Data	09:00 - 09:45	Invited Lecture (Audimax): Gary King: The Dataverse Network
09:30 - 10:30	Invited Lecture (Audimax): Kurt Hornik, John Fox: The Past, Present, and Future of the R Project	09:45 - 10:30	Invited Lecture (Audimax): Graham J. Williams: Deploying Data Mining in Government - Experiences With R/Rattle	09:45 - 10:30	Invited Lecture (Audimax): Andrew Gelman: Bayesian Generalized Linear Models and an Appropriate Default Prior
10:30 - 11:00	Coffee Break	10:30 - 11:00	Coffee Break	10:30 - 11:00	Coffee Break
11:00 - 12:30	useR! Kaleidoscope Kaleidoscope I (Audimax) Kaleidoscope II (E29) Kaleidoscope III (E28)	11:00 - 12:30	useR! Kaleidoscope Kaleidoscope I (Audimax) Kaleidoscope II (E29) Kaleidoscope III (E28)	11:00 - 12:30	useR! Focus Environmetrics II (E29) Bayesian Statistics(E28) User Interfaces III (E19) High Performance III (E21) Biostatistics III (E23) Numerics and Psychometrics(E25)
12:30 - 13:45	Lunch Break	12:30 - 13:45	Lunch Break	12:30 - 13:45	Lunch Break
13:45 - 14:30	Invited Lecture (Audimax): Jean Thioulouse: Multivariate Data Analysis in Microbial Ecology - New Skin for the old Cere-mony	13:45 - 14:30	Invited Lecture (Audimax): Duncan Murdoch: Package Development in Windows	13:45 - 15:15	useR! Kaleidoscope Kaleidoscope I (Audimax) Kaleidoscope II (E29) Kaleidoscope III (E28)
14:35 - 15:35	useR! Focus Bioinformatics I (E29) Modeling I (E28) Time Series Analysis (E19) Actuarial Statistics and Decision Making (E21) R in Business and on Platforms (E23) Social Sciences (E25)	14:35 - 15:35	useR! Focus Marketing and Business Analytics (E29) Modeling II (E28) Reporting (E19) Environments I (E21) Pharmacokinetics (E23) Network Analysis (E25)	15:15 - 15:30	Goodbye (Audimax)
15:35 - 16:00	Coffee Break	15:35 - 16:00	Coffee Break		
16:00 - 17:00	useR! Focus Bioinformatics II (E29) Connectivity I (E28) Finance I (E19) Robust Statistics I (E21) Teaching I (E23) Multivariate Statistics (E25)	16:00 - 17:00	useR! Focus Econometrics I (E29) Model Management (E28) Survival Analysis (E19) User Interfaces I (E21) High Performance I (E23) Chemometrics and Computational Physics (E25)		
17:05 - 18:05	useR! Focus Bioinformatics III (E29) Connectivity II (E28) Finance II (E19) Robust Statistics II (E21) Teaching II (E23) Spatial Statistics (E25)	17:05 - 18:05	useR! Focus Econometrics II (E29) Classification (E28) Biostatistics I (E19) User Interfaces II (E21) High Performance II (E23) Mixed Models (E25)		
evening	City Hall	evening	Conference Dinner		

Tuesday

Time/Room	Audimax	E:29	E:28	E:19	E:21	E:23	E:25
08:30 - 09:00				<i>Registration</i>			
09:00 - 09:30	Welcome						
09:30 - 10:30	Invited Lecture	<p><i>(Duncan Murdoch)</i> Kurt Hornik, John Fox: <i>The Past, Present, and Future of the R Project</i></p>					
10:30 - 11:00		<i>Coffee Break</i>					
11:00 - 12:30	useR! Kaleidoscope	<p>Kaleidoscope I <i>(Martin Mächler)</i> · Byrd · Altman, McDonald · Elff · Nordhausen et al. · Meyer, Lysen</p>	<p>Kaleidoscope II <i>(Jörg Rahnenführer)</i> · Bornkamp et al. · Rueda, Diaz-Uriarte · Marusiakova · Höhle · Rosenbaum</p>	<p>Kaleidoscope III <i>(Christian Kleiber)</i> · Goulet · Würtz, Chalabi · Millo · Achia et al. · Di Narzo, Lines</p>			
12:30 - 13:45		<i>Lunch Break</i>					
13:45 - 14:30	Invited Lecture	<p><i>(François Husson)</i> Jean Thioulouse: <i>Multivariate Data Analysis in Microbial Ecology - New Skin for the old Ceremony</i></p>					
14:35 - 15:35	useR! Focus	<p>Bioinformatics I <i>(Jing Hua Zhao)</i> · Heinrich et al. · Tuimala · Kammer, Rahnenführer</p>	<p>Modeling I <i>(Heather Turner)</i> · Sztendur, Diamond · Ruckdeschel, Kohl</p>	<p>Time Series Analysis <i>(Achim Zeileis)</i> · Spangl et al. · Barbosa · Gilbert</p>	<p>Actuarial Statistics and Decision Making <i>(Vincent Goulet)</i> · Ali Dashi · Gesmann</p>	<p>R in Business and on Platforms <i>(Jim Forzak)</i> · Vaillant · Karaman · Matos</p>	<p>Social Sciences <i>(Micah Altman)</i> · Ballin, Barcaroli · Lemmens</p>
15:35 - 16:00		<i>Coffee Break</i>					
16:00 - 17:00	useR! Focus	<p>Bioinformatics II <i>(Ramón Díaz-Uriarte)</i> · Michaelson, Beyer · Higuchi, Takenaka · Radivoyevitch</p>	<p>Connectivity I <i>(Duncan Murdoch)</i> · Francois · Nieuwenhuis · Verbeke</p>	<p>Finance I <i>(Bernhard Pfaff)</i> · Chalabi et al. · Nakatani · Winston</p>	<p>Robust Statistics I <i>(Martin Mächler)</i> · Agostinelli · Kashid · Sarmad, S. Craig</p>	<p>Teaching I <i>(Peter Dalgaard)</i> · Xie · Gokhan Kocer · Brownrigg</p>	<p>Multivariate Statistics <i>(Jean Thioulouse)</i> · Goodrich · Rui Alves, Beatriz Oliveira · Steinhoff et al.</p>
17:05 - 18:05	useR! Focus	<p>Bioinformatics III <i>(Ramón Díaz-Uriarte)</i> · Binsl et al. · Rahnenführer et al.</p>	<p>Connectivity II <i>(Thomas Baier)</i> · Runnalls · Solymosi et al. · James, Shao</p>	<p>Finance II <i>(Diethelm Würtz)</i> · Gochez · Liu · Ferstl, Hayden</p>	<p>Robust Statistics II <i>(Martin Mächler)</i> · Kloke · Kohl, Ruckdeschel · Rekaia</p>	<p>Teaching II <i>(Peter Dalgaard)</i> · Wessa · Low</p>	<p>Spatial Statistics <i>(Roger Bivand)</i> · Li, Heap · Ramis et al. · Gellrich et al.</p>
evening		<i>City Hall</i>					

Wednesday

Time\Room	Audimax	E29	E28	E19	E21	E23	E25
08:30 - 09:00				Registration			
09:00 - 09:45	Invited Lecture	(Torsten Hothorn) Peter Bühlmann: <i>Computationally Tractable Methods for High-Dimensional Data</i>					
09:45 - 10:30	Invited Lecture	(Torsten Hothorn) Graham J. Williams: <i>Deploying Data Mining in Government - Experiences With R/Rattle</i>					
10:30 - 11:00			Coffee Break				
11:00 - 12:30	useR! Kaleidoscope	Kaleidoscope I (Peter Bühlmann) · Petris · Ritz · Turner et al. · Kneib, Hothorn · Gruen, Leisch	Kaleidoscope II (Friedrich Leisch) · Theussl et al. · Plummer · Meyer et al. · Barnes, Steindorf · Durand et al.	Kaleidoscope III (Dirk Eddelbüttel) · Adler et al. · Oehlschlägel et al. · Henderson et al. · Jones, Giannitrapani · Henneböhl, Pebesma			
12:30 - 13:45			Lunch Break				
13:45 - 14:30	Invited Lecture	(Uwe Ligges) Duncan Murdoch: <i>Package Development in Windows</i>					
14:35 - 15:35	useR! Focus	Marketing and Business Analytics (David Meyer) · Norton · Kondo, Kuroda · Porzak	Modeling II (John Fox) · Kleiber, Zeileis · Kosmidis · Altoè	Reporting (Friedrich Leisch) · Raffelsberger et al. · Francois, Ilesley · Fontaine	Environmetrics I (Thomas Petzoldt) · Sathiaraj · Klemmt · Bojanowski, Carmona-Moreno	Pharmacokinetics (Christian Ritz) · Lee, Lee · Chen, Lee · Vidal et al.	Network Analysis (Kurt Hornik) · Csardi · Bojanowski · Hamacher et al.
15:35 - 16:00			Coffee Break				
16:00 - 17:00	useR! Focus	Econometrics I (Christian Kleiber) · Bruno · Pietro Zaccamer, Grassetti	Model Management (Heather Turner) · Seger, Unwin · Stahel	Survival Analysis (Arthur Allignol) · Hofner et al. · Beyersmann et al.	User Interfaces I (Martin Theus) · Neuwirth · Weiß · James Harner et al.	High Performance I (Dirk Eddelbüttel) · Nakano, Nakama · Emerson, Kane · Eddelbüttel	Chemometrics and Comp. Physics (Sergey Laptenok) · Chae et al. · Mullen, van Stokkum · J. Snellenburg et al.
17:05 - 18:05	useR! Focus	Econometrics II (Christian Kleiber) · Henningsen · Balciar	Classification (Graham Williams) · Schiffrer, Weihs · Szepannek et al. · Kaiser, Leisch	Biostatistics I (Torsten Hothorn) · Hack, Braunnath · Hüsing · Karvanen	User Interfaces II (Karin Chme) · Junger et al. · Hodgess, Vobach · Dutter	High Performance II (Ryota Suzuki) · Wegener et al. · Smith et al. · Baier	Mixed Models (Douglas Bates) · Scheipl et al. · Crouchley et al. · Haubo Bojesen Christensen
evening			Conference Dinner				

Thursday

Time\Room	E29	E28	E19	E21	E23	E25
08:30 - 09:00			<i>Registration</i>			
09:00 - 09:45 Invited Lecture	<p>(<i>John Fox</i>) Gary King: The Data-verse Network</p>					
09:45 - 10:30 Invited Lecture	<p>(<i>John Fox</i>) Andrew Gelman: Bayesian Generalized Linear Models and an Appropriate Default Prior</p>					
10:30 - 11:00	<i>Coffee Break</i>					
11:00 - 12:30 useR! Focus	<p>Environmetrics II (<i>Martyn Plummer</i>)</p> <ul style="list-style-type: none"> · Petzoldt · Hankin · Pagel, Schurr · Boas Marcio Antonio et al. 	<p>Bayesian Statistics (<i>Thomas Kneib</i>)</p> <ul style="list-style-type: none"> · Kovalchik · Okada, Shigemasu · La Rocca · Kerman, Gelman 	<p>User Interfaces III (<i>Martin Theus</i>)</p> <ul style="list-style-type: none"> · Visne et al. · Chine · Bischl, Rohmeyer · Partchev 	<p>High Performance III (<i>David Henderson</i>)</p> <ul style="list-style-type: none"> · Grose · Jamitzky · Knaus · Schmidberger, Mansmann 	<p>BioStatistics II (<i>Frank E Harrell Jr</i>)</p> <ul style="list-style-type: none"> · Hua Zhao et al. · Lee et al. · Singh Kapoor · Borg 	<p>Numerics and Psychometrics (<i>Claus Weihs</i>)</p> <ul style="list-style-type: none"> · Mersmann et al. · Nunkesser et al. · Rizopoulos · Wickelmaier
12:30 - 13:45	<i>Lunch Break</i>					
13:45 - 15:15 useR! Kaleidoscope	<p>Kaleidoscope I (<i>Gary King</i>)</p> <ul style="list-style-type: none"> · Suzuki · Gunter, Lewin-Koh · Crawford, Bowman · Pugh, Aldridge · Dubyak 	<p>Kaleidoscope II (<i>Katharine Mullen</i>)</p> <ul style="list-style-type: none"> · Hornik, Meyer · Schettlinger et al. · Pardo, Sberveglieri · Strobl, Zeileis · Laptenok et al. 	<p>Kaleidoscope III (<i>Thomas Petzoldt</i>)</p> <ul style="list-style-type: none"> · Jagger, Elsner · Breidenbach · Kauermann, Mesteckemper · Helsel, Lee 			
15:15 - 15:30	Goodbye					

List of Talks

Tuesday

- 09:00 - 09:30 **Welcome** (Room: Audimax)
- 09:30 - 10:30 **Invited Lecture** (Room: Audimax, Chair: Duncan Murdoch)
Kurt Hornik, John Fox: *The Past, Present, and Future of the R Project*
- 10:30 - 11:00 **Coffee Break**
- 11:00 - 12:30 **useR! Kaleidoscope**
- Kaleidoscope I** (Room: Audimax, Chair: Martin Mächler)
- Christopher Byrd: *An Automatic Recommendation System using R: Project Thank You eMail*
- Micah Altman, Michael McDonald: *BARD: Better Automated Redistricting*
- Martin Elff: *Management and Analysis of Large Survey Data Sets Using the 'memisc' Package*
- Klaus Nordhausen, Hannu Oja, David Tyler: *Invariant coordinate selection for multivariate data analysis - the package ICS*
- Pete Meyer, Shaun Lysen: *An automated R tool for identifying individuals with difficulties in a large pool of raters*
- Kaleidoscope II** (Room: E29, Chair: Jörg Rahnenführer)
- Björn Bornkamp, José Pinheiro, Frank Bretz: *MCPMod - An R Package for the Design and Analysis of Dose-Finding Studies*
- Oscar Rueda, Ramon Diaz-Uriarte: *Analysis of CGH arrays using MCMC with Reversible Jump: detecting gains and losses of DNA and common regions of alteration among subjects*
- Miriam Marusiakova: *The statistical evaluation of DNA crime stains in R*
- Michael Höhle: *Modelling and surveillance of infectious diseases - or why there is an R in SARS*
- Janet Rosenbaum: *Patient teenagers? A comparison of the sexual behavior of virginity pledgers and matched non-pledgers*
- Kaleidoscope III** (Room: E28, Chair: Christian Kleiber)
- Vincent Goulet: *Statistical Modeling of Loss Distributions Using actuar*
- Diethelm Würtz, Yohan Chalabi: *Computational Finance and Financial Engineering: The R/Rmetrics Software Environment*
- Giovanni Millo: *Cross-sectional and spatial dependence in panels*
- Thomas Achia, Atinuke Adebajji, John Owino, Anne Wangombe: *Spatial Durbin Model for Poverty Mapping and Analysis*
- Antonio Di Narzo, Marji Lines: *RiDMC: an R package for the numerical analysis of dynamical systems*
- 12:30 - 13:45 **Lunch Break**

- 13:45 - 14:30 **Invited Lecture** (Room: Audimax, Chair: François Husson)
Jean Thioulouse: *Multivariate Data Analysis in Microbial Ecology - New Skin for the old Ceremony*
- 14:35 - 15:35 **useR! Focus**
- Bioinformatics I** (Room: E29, Chair: Jing Hua Zhao)
Julian Heinrich, Janko Dietzsch, Dirk Bartz, Kay Nieselt: *SpRay - an R-based visual-analytics platform for large and high-dimensional datasets*
Jarno Tuimala: *Chipster: A graphical user interface to DNA microarray data analysis using R and Bioconductor*
Kai Kammers, Jörg Rahnenführer: *Survival Models Built from Gene Expression Data Using Gene Groups as Covariates*
- Modeling I** (Room: E28, Chair: Heather Turner)
Ewa Sztendur, Neil Diamond: *rsm: An R package for Response Surface Methodology*
Peter Ruckdeschel, Matthias Kohl: *distrMod - an S4-class based package for statistical models*
- Time Series Analysis** (Room: E19, Chair: Achim Zeileis)
Bernhard Spangl, Peter Ruckdeschel, Rudolf Dutter: *Approximate Conditional-mean Type Filtering for State-space Models*
Susana Barbosa: *ArDec: Autoregressive-based time series decomposition in R*
Paul Gilbert: *Time Series Database Interface*
- Actuarial Statistics and Decision Making** (Room: E21, Chair: Vincent Goulet)
Mohammad Ali Dashti: *Quantitative approach to Entropy weighting methodology in MADM*
Markus Gesmann: *ChainLadder: Reserving insurance claims with R*
- R in Business and on Platforms** (Room: E23, Chair: Jim Porzak)
Boris Vaillant: *Using R to test Bayesian adaptive discrete choice designs*
Zivan Karaman: *Using R as enterprise-wide data analysis platform*
José Matos: *R packages from a Fedora perspective*
- Social Sciences** (Room: E25, Chair: Micah Altman)
Marco Ballin, Giulio Barcaroli: *Tree-based and GA tools for optimal sampling design*
Lucien Lemmens: *Small groups and questionnaires*
- 15:35 - 16:00 **Coffee Break**

16:00 - 17:00

useR! Focus**Bioinformatics II** (Room: E29, Chair: Ramón Díaz-Uriarte)

Jacob Michaelson, Andreas Beyer: *Random Forests for eQTL Analysis: A Performance Comparison*

Chihiro Higuchi, Shigeo Takenaka: *Metabolome data mining of mass spectrometry measurements with random forests*

Tomas Radivoyevitch: *Equilibrium Model Selection*

Connectivity I (Room: E28, Chair: Duncan Murdoch)

Romain Francois: *R4X: Simple XML Manipulation for R*

Rense Nieuwenhuis: *Retrieving old data using 'read.isi'*

Tobias Verbeke: *Refactoring R Programs*

Finance I (Room: E19, Chair: Bernhard Pfaff)

Yohan Chalabi, Michal Miklovic, Diethelm Würtz: *Scaling and Robustification of ARMA Models with GARCH/APARCH Errors Using R/Rmetrics*

Tomoaki Nakatani: *ccgarch: An R package for modelling multivariate GARCH models with conditional correlations*

Rory Winston: *Real-Time Market Data Interfaces in R*

Robust Statistics I (Room: E21, Chair: Martin Mächler)

Claudio Agostinelli: *Robust Inference in Generalized Linear Models*

Dattatraya Kashid: *Variable Selection in Regression Using R*

Majid Sarmad, Peter S. Craig: *'robande': An R package for Robust ANOVA*

Teaching I (Room: E23, Chair: Peter Dalgaard)

Yihui Xie: *Statistical Animations Using R*

Ruya Gokhan Kocer: *Believing by Seeing before Seeing by Believing: Visualizing the Gaussian Regression Model by the SIM.REG package for intuitive teaching*

Ray Brownrigg: *Tricks and Traps for Young Players*

Multivariate Statistics (Room: E25, Chair: Jean Thioulouse)

Ben Goodrich: *FAiR: A Package for Factor Analysis in R*

M. Rui Alves, M. Beatriz Oliveira: *Automatic construction of graphical outputs of common multivariate analyses with a special reference to predictive biplots*

Christine Steinhoff, Matteo Pardo, Martin Vingron: *A pipeline based on multivariate correspondence analysis with supplementary variables for cancer genomics*

17:05 - 18:05

useR! Focus**Bioinformatics III** (Room: E29, Chair: Ramón Díaz-Uriarte)

Thomas Binsl, Jaap Heringa, David Alders, Hans van Beek: *FluxEs: An 'R' Framework for Parameter Estimation in Biological Networks*

Jörg Rahnenführer, Jasmina Bogojeska, Adrian Alexa, André Altmann, Thomas Lengauer: *Estimating evolutionary pathways and genetic progression scores with Rtreemix*

Connectivity II (Room: E28, Chair: Thomas Baier)

Andrew Runnalls: *CXXR: Refactoring the R Interpreter into C++*

Norbert Solymosi, Andrea Harnos, Jenő Reiczigel: *SQLiteMap: package to manage vector graphical maps using SQLite*

John James, Fan Shao: *The Execution Engine: Client-server mechanism for remote calling of R and other systems*

Finance II (Room: E19, Chair: Diethelm Würtz)

Francisco Gochez: *The BLCOP package: an R implementation of the Black-Litterman and copula opinion pooling models*

Wei-han Liu: *A Closer Examination of Extreme Value Theory Modeling in Value-at-Risk Estimation*

Robert Ferstl, Josef Hayden: *Hedging interest rate risk with the dynamic Nelson/Siegel model*

Robust Statistics II (Room: E21, Chair: Martin Mächler)

John Kloke: *Rfit: An R Package for Rank Estimates*

Matthias Kohl, Peter Ruckdeschel: *R-Packages for Robust Asymptotic Statistics*

Soumaya Rekaia: *Indicators of Least Absolute Deviation's sensibility*

Teaching II (Room: E23, Chair: Peter Dalgaard)

Patrick Wessa: *A Compendium Platform for Reproducible, R-based Research with a focus on Statistics Education*

Andras Low: *R and Stata for Building Regression Models*

Spatial Statistics (Room: E25, Chair: Roger Bivand)

Jin Li, Andrew Heap: *Comparison of spatial interpolation methods using a simulation experiment based on Australian seabed sediment data*

Rebeca Ramis, Peter Diggle, Gonzalo López-Abente: *Estimation of Standard Errors in Non-Linear Regression Models: Spatial Variation in Risk Around Putative Sources*

Mario Gellrich, Rudolf Gubler, Andreas Schönborn, Andreas Papritz: *SIM-SURVEY - a tool for (geo-) statistical analyses with R on the web*

Wednesday

- 09:00 - 09:45 **Invited Lecture** (Room: Audimax, Chair: Torsten Hothorn)
Peter Bühlmann: *Computationally Tractable Methods for High-Dimensional Data*
- 09:45 - 10:30 **Invited Lecture** (Room: Audimax, Chair: Torsten Hothorn)
Graham J. Williams: *Deploying Data Mining in Government - Experiences With R/Rattle*
- 10:30 - 11:00 **Coffee Break**
- 11:00 - 12:30 **useR! Kaleidoscope**
- Kaleidoscope I** (Room: Audimax, Chair: Peter Buehlmann)
 Giovanni Petris: *Dynamic Linear Models in R*
 Christian Ritz: *Functional regression analysis using R*
 Heather Turner, David Firth, Andy Batchelor: *Custom Functions for Specifying Nonlinear Terms to gnm*
 Thomas Kneib, Torsten Hothorn: *mboost - Componentwise Boosting for Generalised Regression Models*
 Bettina Gruen, Friedrich Leisch: *FlexMix: Flexible fitting of finite mixtures with the EM algorithm*
- Kaleidoscope II** (Room: E29, Chair: Friedrich Leisch)
 Stefan Theussl, Achim Zeileis, Kurt Hornik: *Collaborative Development Using R-Forge*
 Martyn Plummer: *Bayesian Modelling in R with rjags*
 David Meyer, Achim Zeileis, Kurt Hornik: *The strucplot framework for Visualizing Categorical Data*
 Benjamin Barnes, Karen Steindorf: *Visualizing multivariate categorical and continuous data from epidemiologic studies: An expanded scatter plot matrix*
- Kaleidoscope III** (Room: E28, Chair: Dirk Eddelbuettel)
 Daniel Adler, Jens Oehlschlägel, Oleg Nenadic, Walter Zucchini: *Large atomic data in R: package 'ff'*
 Jens Oehlschlägel, Daniel Adler, Oleg Nenadic, Walter Zucchini: *A first glimpse into 'R.ff', a package that virtually removes R's memory limit*
 David Henderson, Stephen Weston, Nicholas Carriero, Robert Bjornson: *High Performance Computing with NetWorkSpaces for R*
 Wayne Jones, Marco Giannitrapani: *Rapid Application Deployment with R*
 Katharina Henneböhl, Edzer Pebesma: *Providing R functionality through the OGC Web Processing Service*
- 12:30 - 13:45 **Lunch Break**

- 13:45 - 14:30 **Invited Lecture** (Room: Audimax, Chair: Uwe Ligges)
Duncan Murdoch: *Package Development in Windows*
- 14:35 - 15:35 **useR! Focus**
- Marketing and Business Analytics** (Room: E29, Chair: David Meyer)
Derek Norton: *Automating Business Modeling with the AutoModelR package*
Fumiyo Kondo, Teppei Kuroda: *Customer Heterogeneity in Purchasing Habit of Variety Seeking Based on Hierarchical Bayesian Model*
Jim Porzak: *Direct Marketing Analytics with R*
- Modeling II** (Room: E28, Chair: John Fox)
Christian Kleiber, Achim Zeileis: *Generalized count data regression in R*
Ioannis Kosmidis: *Profiling the parameters of models with linear predictors*
Gianmarco Altoè: *The 'deltaR' package: a flexible way to compare regression models on independent samples using a bootstrap approach*
- Reporting** (Room: E19, Chair: Friedrich Leisch)
Wolfgang Raffelsberger, Luc Moulinier, David Kieffer, Olivier Poch: *RReportGenerator: Automatic reports from routine statistical analysis using R*
Romain Francois, David Ilsley: *XML-based Reporting Application*
Delphine Fontaine: *Sweave or how to make 286 customized reports in two clicks*
- Environmetrics I** (Room: E21, Chair: Thomas Petzoldt)
David Sathiaraj: *Spatial Analysis and Visualization of Climate Data Using R*
Hans-Joachim Klemmt: *Using R as an environment for automatic extraction of forest growth parameters from terrestrial laser scanning data*
Jedrzej Bojanowski, César Carmona-Moreno: *Using R for time series analysis and spatial-temporal distribution of global burnt surface multi-year product*
- Pharmacokinetics** (Room: E23, Chair: Christian Ritz)
Chun-ying Lee, Yung-jin Lee: *PKfit - A Pharmacokinetic Data Analysis Tool on R*
Miao-ting Chen, Yung-jin Lee: *tdm - A Tool of Therapeutic Drug Monitoring in R*
Enrique Vidal, Roberto Pastor-Barriuso, Marina Pollan, Gonzalo Lopez-Abente: *Segmented Poisson Models*
- Network Analysis** (Room: E25, Chair: Kurt Hornik)
Gabor Csardi: *igraph - a package for network analysis*
Michal Bojanowski: *Simulating Games on Networks with R. Application to coordination in dynamic social network under heterogeneity.*
Kay Hamacher, Franziska Hoffgaard, Philipp Weil: *Introducing BioPhysConnectoR*
- 15:35 - 16:00 **Coffee Break**

16:00 - 17:00

useR! Focus**Econometrics I** (Room: E29, Chair: Christian Kleiber)

Giuseppe Bruno: *Exploring Financial system Convergence in 8 OECD countries by means of the plm package*

Gian Pietro Zaccomer, Luca Grassetto: *Using R for Spatial Shift-Share Analysis*

Model Management (Room: E28, Chair: Heather Turner)

Ralf Seger, Antony Unwin: *MORET - A Software For Model Management*

Werner Stahel: *Regression Model Development and Yet Another Regression Function*

Manuel Eugster, Friedrich Leisch: *Exploratory and Inferential Analysis of Benchmark Experiments*

Survival Analysis (Room: E19, Chair: Arthur Allignol)

Benjamin Hofner, Thomas Kneib, Torsten Hothorn: *Variable Selection and Model Choice in Survival Models with Time-Varying Effects*

Jan Beyersmann, Arthur Allignol, Martin Schumacher: *Understanding product integration*

Arthur Allignol, Jan Beyersmann, Martin Schumacher: *mونا, a R-package for the Multivariate Nelson-Aalen Estimator in Multistate Models*

User Interfaces I (Room: E21, Chair: Martin Theus)

Erich Neuwirth: *R meets the Workplace - Embedding R into Excel and making it more accessible*

Christian Weiß: *Commercial meets Open Source - Tuning STATISTICA with R*

E. James Harner, Dajie Luo, Jun Tan: *JavaStat: a Java-based R Front-end*

High Performance I (Room: E23, Chair: Dirk Eddelbuettel)

Junji Nakano, Ei-ji Nakama: *Speeding up R by using ISM-like calls*

John Emerson, Michael Kane: *The bigmemoRy package: handling large data sets in R using RAM and shared memory*

Dirk Eddelbuettel: *Scripting with R in high-performance computing: An Example using littler*

Chemometrics and Computational Physics (Room: E25, Chair: Sergey Laptinok)

Minho Chae, John Thaden, Steven Jennings, Robert Shmookler Reis: *washAlign: a GC-MS Data Alignment Tool Using Iterative Block-Shifting of Peak Retention Times Based on Mass-Spectral Data*

Katharine Mullen, Ivo van Stokkum: *Resolving components in mass spectrometry data: parametric and non-parametric approaches*

Joris J. Snellenburg, Katherine M. Mullen, Ivo H. M. van Stokkum: *TIMPGUI: A graphical user interface for the package TIMP*

17:05 - 18:05

useR! Focus**Econometrics II** (Room: E29, Chair: Christian Kleiber)

Arne Henningsen: *Estimation of Theoretically Consistent Stochastic Frontier Functions in R*

Mehmet Balçilar: *RSTAR: A Package for Smooth Transition Autoregressive Modeling Using R*

Classification (Room: E28, Chair: Graham Williams)

Julia Schiffner, Claus Weihs: *Local Classification Methods for Heterogeneous Classes*

Gero Szepannek, Uwe Ligges, Claus Weihs: *Some Aspects on Classification, Variable Selection and Categorical Clustering*

Sebastian Kaiser, Friedrich Leisch: *A Toolbox for Bicluster Analysis in R*

Biostatistics I (Room: E19, Chair: Torsten Hothorn)

Niklas Hack, Werner Brannath: *Estimation in classic and adaptive group sequential trials*

Johannes Hüsing: *An extension of the coin package for comparing interventions assigned by dynamic allocation*

Juha Karvanen: *Design and analysis of follow-up studies with genetic component*

User Interfaces II (Room: E21, Chair: Karim Chine)

Washington Junger, Antonio Ponce de Leon, Elizabeth de Albuquerque, Reinaldo Marques, Leonardo Costa: *EpiR: a graphic user interface oriented to epidemiological data analysis*

Erin Hodgess, Carol Vobach: *RcmdrPlugin.epack: A Time Series Plug-in for Rcmdr*

Rudolf Dutter: *A Graphical User Interface for Environmental Statistics*

High Performance II (Room: E23, Chair: Ryota Suzuki)

Dennis Wegener, Stefan Rüping, Michael Mock: *GridR: Distributed Data Analysis using R*

Mike Smith, Richard Pugh, Romain Francois: *MSToolkit: Distributed R for the creation and analysis of simulated clinical trial data*

Thomas Baier: *R in Automation: Accessing Real-time-data*

Mixed Models (Room: E25, Chair: Douglas Bates)

Fabian Scheipl, Sonja Greven, Helmut Küchenhoff: *RLRsim: Testing for Random Effects or Nonparametric Regression Functions in Additive Mixed Models*

Robert Crouchley, Damon Berridge, Dan Grose: *An Alternative Package for Estimating Multivariate Generalised Linear Mixed Models in R*

Rune Haubo Bojesen Christensen: *Models for Replicated Discrimination Tests: A Synthesis of Latent Class Mixture Models and Generalized Linear Mixed Models*

Thursday

- 09:00 - 09:45 **Invited Lecture** (Room: Audimax, Chair: John Fox)
Gary King, *The Dataverse Network*
- 09:45 - 10:30 **Invited Lecture** (Room: Audimax, Chair: John Fox)
Andrew Gelman, *Bayesian Generalized Linear Models and an Appropriate Default Prior*
- 10:30 - 11:00 **Coffee Break**
- 11:00 - 12:30 **useR! Focus**
- Environmetrics II** (Room: E29, Chair: Martyn Plummer)
Thomas Petzoldt: *Objects, clones and collections: ecological models and scenario analysis with simecol*
Robin Hankin: *Modelling biodiversity in R: the untb package*
Joern Pagel, Frank Schurr: *Forecasting species range shifts: a Hierarchical Bayesian framework for estimating process-based models of range dynamics*
Vilas Boas Marcio Antonio, Uribe-Opazo Miguel Angel, Alves da Silva Edson Antonio: *Surface and Sprinkle Irrigation Analysis with R*
- Bayesian Statistics** (Room: E28, Chair: Thomas Kneib)
Stephanie Kovalchik: *Graphical Functions for Prior Selection*
Kensuke Okada, Kazuo Shigemasu: *BMDS: A Collection of R Functions for Bayesian Multidimensional Scaling*
Luca La Rocca: *The BayHaz package for Bayesian estimation of smooth hazard rates in R*
Jouni Kerman, Andrew Gelman: *Toward Fully Bayesian Computing: Manipulating and Summarizing Posterior Simulations Using Random Variable Objects*
- User Interfaces III** (Room: E19, Chair: Martin Theus)
Ilhami Visne, Klemens Vierlinger, Friedrich Leisch, Albert Kriegner: *RGG: An XML-based GUI Generator for R Scripts*
Karim Chine: *The Virtual R Workbench, towards an open platform for R based e-Science*
Bernd Bischl, Kornelius Rohmeyer: *Towards a Java Framework for Rapid Development of Graphical User Interfaces for Statistical Applications based on R*
Ivailo Partchev: *TCL Expect: Yet another way to develop GUI for R*

High Performance III (Room: E21, Chair: David Henderson)

Daniel Grose: *Distributed Computing using the multiR Package*

Ferdinand Jamitzky: *ROMP - an OpenMP binding for R*

Jochen Knaus: *sfCluster/snowfall: Managing parallel execution of R programs on a compute cluster*

Markus Schmidberger, Ulrich Mansmann: *Parallelized preprocessing algorithms for high-density oligonucleotide array data*

Biostatistics II (Room: E23, Chair: Frank E Harrell Jr)

Jing Hua Zhao, Qihua Tan, Shengxu Li, Jian'an Luan: *Some Perspectives of Graphical Methods for Genetic Data*

Hsin-ya Lee, Pao-chu Wu, Yung-jin Lee: *ivivc - A Tool for in vitro-in vivo Correlation Exploration with R*

Kulwant Singh Kapoor: *Agreement analysis method in case of continuous variable*

Sixten Borg: *A Maximum Likelihood estimator of a Markov model for disease activity in chronic diseases that alternate between relapse and remission, for annually aggregated partial observations*

Numerics and Psychometrics (Room: E25, Chair: Claus Weihs)

Olaf Mersmann, Heike Trautmann, Detlef Steuer, Claus Weihs, Uwe Ligges: *Desirability functions in multicriteria optimization - Observations made while implementing desiRe*

Robin Nunkesser, Silke Straatmann, Simone Wenzel: *rPorta - An R Package for Analyzing Polytopes and Polyhedra*

Dimitris Rizopoulos: *Item Response Theory Using the ltm Package*

Florian Wickelmaier: *Analyzing paired-comparison data in R using probabilistic choice models*

12:30 - 13:45

Lunch Break

13:45 - 15:15

useR! Kaleidoscope**Kaleidoscope I** (Room: Audimax, Chair: Gary King)Ryota Suzuki: *R AnalyticFlow: A flowchart-style GUI for R*Bert Gunter, Nicholas Lewin-Koh: *SimpleR: Taking on the 'Evil Empire' by Developing Applications for Non-statistical Users*Ewan Crawford, Adrian Bowman: *Statistical Cartoons*Richard Pugh, Matt Aldridge: *R for the Masses: Lessons learnt from delivering R training courses*Will Dubyak: *Cracking the Nut: Introducing R to a Department***Kaleidoscope II** (Room: E29, Chair: Katharine Mullen)Kurt Hornik, David Meyer: *Good Relations with R*Karen Schettlinger, Roland Fried, Ursula Gather: *robfilter: An R Package for Robust Time Series Filters*Matteo Pardo, Giorgio Sberveglieri: *Random Forests and Nearest Shrunken Centroids for the Classification of eNose data*Carolin Strobl, Achim Zeileis: *Why and how to use random forest variable importance measures (and how you shouldn't)*Sergey Laptinok, Katharine Mullen, Jan Willem Borst, Herbert van Amerongen, Antonie Visser: *New possibilities for interactive specification and validation of models for Fluorescence Lifetime Imaging Microscopy (FLIM) data with the TIMP package***Kaleidoscope III** (Room: E28, Chair: Thomas Petzoldt)Thomas Jagger, James Elsner: *R for climate research*Johannes Breidenbach: *Use R! for estimating forest parameters based on Airborne Laser Scanner Data*Goeran Kauermann, Thomas Mestekemper: *Specification of Landmarks and Forecasting Water Temperature*Dennis Helsel, Lopaka Lee: *NADA for R: A contributed package for censored environmental data*

15:15 - 15:30

Goodbye (Room: Audimax)