UCLM
UNIVERSIDAD DE CASTILLA-LA MANCHA

The R User Conference
2013

The 9th International R User Conference
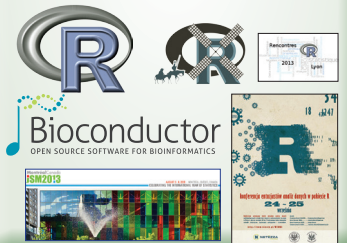
Albacete, Castilla-La Mancha
July 10-12 2013

useR!

Revolution Analytics Supports the
Open Source ⒭ Community

Supporting 51 Groups Worldwide

Revolution Supported Conferences

BioC2013

Deuxièmes Recontres R

IV JORNADAS

JSM2013

Meielisalp 2013

useR! 2013

WZUR2012

Bioconductor
OPEN SOURCE SOFTWARE FOR BIOINFORMATICS

Contributed Software

R PACKAGES
Since its very early days, Revolution Analytics has contributed software to the open source community. Revolution's experts in parallel computing maintain the following packages on CRAN:
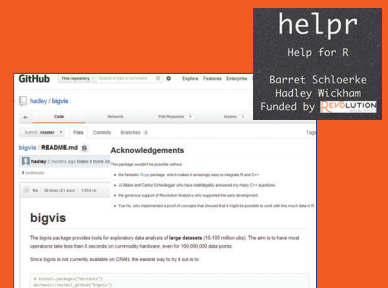
doMC, doParallel, doSNOW, foreach, iterators, nws

Leading the way for integrating R with Hadoop. Recognizing early on that the Hadoop project would become very important for R minded data scientists and statisticians for working with big data Revolution initiated the RHA-DOOP project on Github. Today, the three packages rmr (writing map-reduce jobs in R), rhbase (queriring the HBASE data base) and rhdfs (working with the HDFS file system) are the gold standards for using R with Hadoop.

Funding R Development

Helpr: https://github.com/hadley/helpr

helpr
Help for R
Barret Schloerke
Hadley Wickham
Funded by REVOLUTION

bigvis

Revolutions Blog
http://blog.revolutionanalytics.com/

Tracking Community Events
http://blog.revolutionanalytics.com/calendar.html

Community Website
http://www.inside-r.org/

R Evangelism in the Media

Forbes

Forbes: http://bit.ly/r-forbes
Names You Need to Know in 2011: R Data Analysis Software; Steve McNally, Contributor

The New York Times NEWS

New York Times: http://bit.ly/r-power
Data Analysts Captivated by R's Power; By ASHLEE VANCE

Revolution Analytics is proud to be a member of The R Foundation
www.revolutionanalytics.com

Welcome!

In a village of La Mancha, the name of which I have no desire to call to mind, we are hosting the useR! 2013 conference!

Dear useRs,

Welcome to the 9th R user conference, useR! 2013, hosted by the University of Castilla-La Mancha in Albacete. Following eight successful meetings, the useR! conference is focused on: R as the 'lingua franca' of data analysis and statistical computing; providing a platform for R users to discuss and exchange ideas on how R can be used for statistical computations, data analysis, visualisation and exciting applications in various fields; and giving an overview of the new features of the rapidly evolving R project. The program consists of invited talks discussing new R developments and interesting applications of R, and user-contributed presentations reflecting the wide range of fields in which R is used to analyse data.

The following pages provide you with information regarding the R User Conference, useR! 2013. We hope that you find the conference enjoyable and stimulating, and also hope that you enjoy your time here at the University of Castilla-La Mancha in Albacete.

We would like to thank previous organisers of the useR! conference for their help and advice. In particular, the help of Heather Turner and Matt Shotwell (who have organised the useR! conference in Warwick and Nashville, respectively). They have provided us with materials and tips to make an even better useR! conference.

With kind regards from the useR! 2013 Organising Committee.

|	
Esteban Alfaro-Cortés	José Luis Alfaro-Navarro
María Teresa Alonso-Martínez	Gonzalo García-Donato
Matías Gámez-Martínez	Noelia García-Rubio
Virgilio Gómez-Rubio (Chair)	María José Haro-Delicado
Emilio L. Cano	Francisco Parreño-Torres

R Studio™

Software, education, and services for the R community

RStudio IDE

Take control of your R code

The RStudio IDE is a powerful and productive user interface for R. It's free and open source, and works great on Windows, Mac and Linux. It even runs in a browser with RStudio Server.
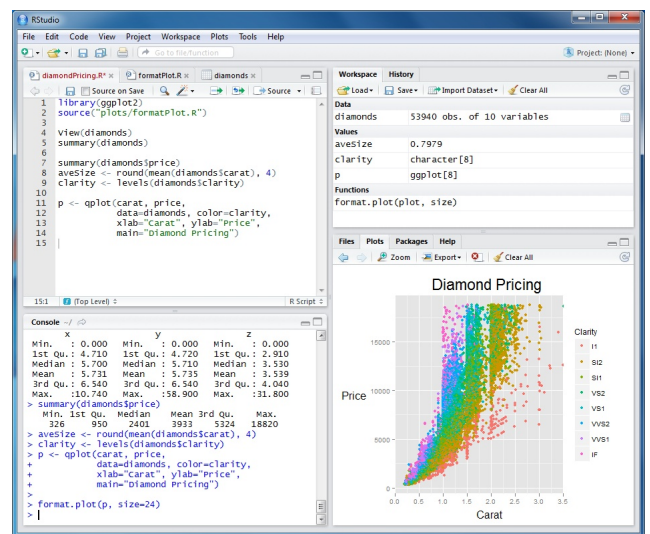
Shiny — Shiny makes it super simple for R users to turn analyses into interactive web applications anyone can use.

ggplot2 — An enhanced data visualization package for R. Create stunning multi-layered graphics with ease.

Rpubs — RPubs is a free publishing service for R Markdown, which weaves together your writing and the output of your R code.

plyr — An R package for efficiently manipulating data. Utilize the split, apply, combine method for fast, consistent results.

devtools — Developer tools for building R packages. Remove the pains and bottlenecks of package development.

Training *Harness the power of R*

We've got hands-on courses for beginners and even R experts. We'll teach you practical skills you can immediately put to use. Our instructors are available for on-site training, or you can join us at one of our public workshops. Our course catalogue includes: Intro to data science with R, Effective data visualization, Modelling and machine learning, Reports and reproducible research, and Advanced R programming.

BEGINNER
INTERMEDIATE
ADVANCED
CUSTOM

http://www.rstudio.com

ORACLE®

Oracle Corporation is proud to sponsor useR! 2013

R for the Enterprise

While many developers and analysts run R programs on their personal computers, sometimes they need more. Oracle has created a broad set of options for using R on data stored in Hadoop or Oracle Database, bringing enterprise caliber capabilities to projects that require high levels of security, scalability and performance. Develop and operationalize R scripts for analytical applications simply and easily —SQL and MapReduce knowledge optional!

For more information, visit oracle.com/goto/R

Please make sure to stop by our booth, to not only network with our Product Experts, but also get an onsite demonstration.

Unleash the agility of R for the Enterprise

with TIBCO Enterprise Runtime for R (TERR)

TIBCO Enterprise Runtime for R (TERR) is an enterprise-grade analytic engine that TIBCO has built from the ground up to be fully compatible with the R language, leveraging our long-time expertise in the closely related S+ analytic engine.

TIBCO Spotfire and TIBCO Enterprise Runtime for R enable you to:

- Leverage a Predictive Analytics Ecosystem through seamless integration of your existing investments in R, S+, SAS® and MATLAB®
- Embed the enterprise-class, R-compatible TIBCO Enterprise Runtime for R engine

TIBCO Spotfire is proud to sponsor the useR! Conference, as part of our ongoing support for the vibrant R Community.

For more information on Spotfire Predictive Analytics and TERR, and to try the free TERR Developer's Edition, visit **spotfire.tibco.com.**

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Contact us: TIBCO Spotfire, mds@tibco.com - +44-800-520-0443

Programme Overview

Tuesday 9th July

08:30	Registration Opens[1]
09:30 - 13:00	Morning Tutorials
13:00 - 14:30	Lunch[2]
14:30 - 18:00	Afternoon Tutorials
20:00 - 23:00	Opening Mixer[3], sponsored by the Faculty of Economics and Business Sciences, UCLM

Wednesday 10th July

09:00 - 09:30	Opening Session
09:30 - 10:25	Invited Talk - Håvard Rue
10:30 - 11:50	Contributed talks
11:50 - 12:20	Tapas Break, sponsored by Revolution Analytics
12:20 - 13:40	Contributed Talks
13:40 - 15:30	Lunch
15:30 - 16:25	Invited Talk - Hadley Wickham
16:30 - 17:50	Contributed Talks
17:50 - 20:00	Tapas Cocktail and Poster Session, sponsored by Google

Thursday 11th July

09:00 - 09:55	Invited Talk - Duncan Murdoch
10:00 - 11:20	Contributed Talks
11:20 - 11:50	Tapas Break, sponsored by Oracle
11:50 - 13:10	Contributed Talks
13:10 - 15:00	Lunch
15:00 - 15:55	Invited Talk - José Manuel Benítez-Sánchez
16:00 - 16:25	useR! 2013 Awards
16:30 - 17:50	Contributed Talks
17:50 - 18:20	Tapas Break, sponsored by R-Studio
18:20 - 19:40	Contributed Talks
21:30 - 00:00	Conference Dinner[4], sponsored by Revolution Analytics

Friday 12th July

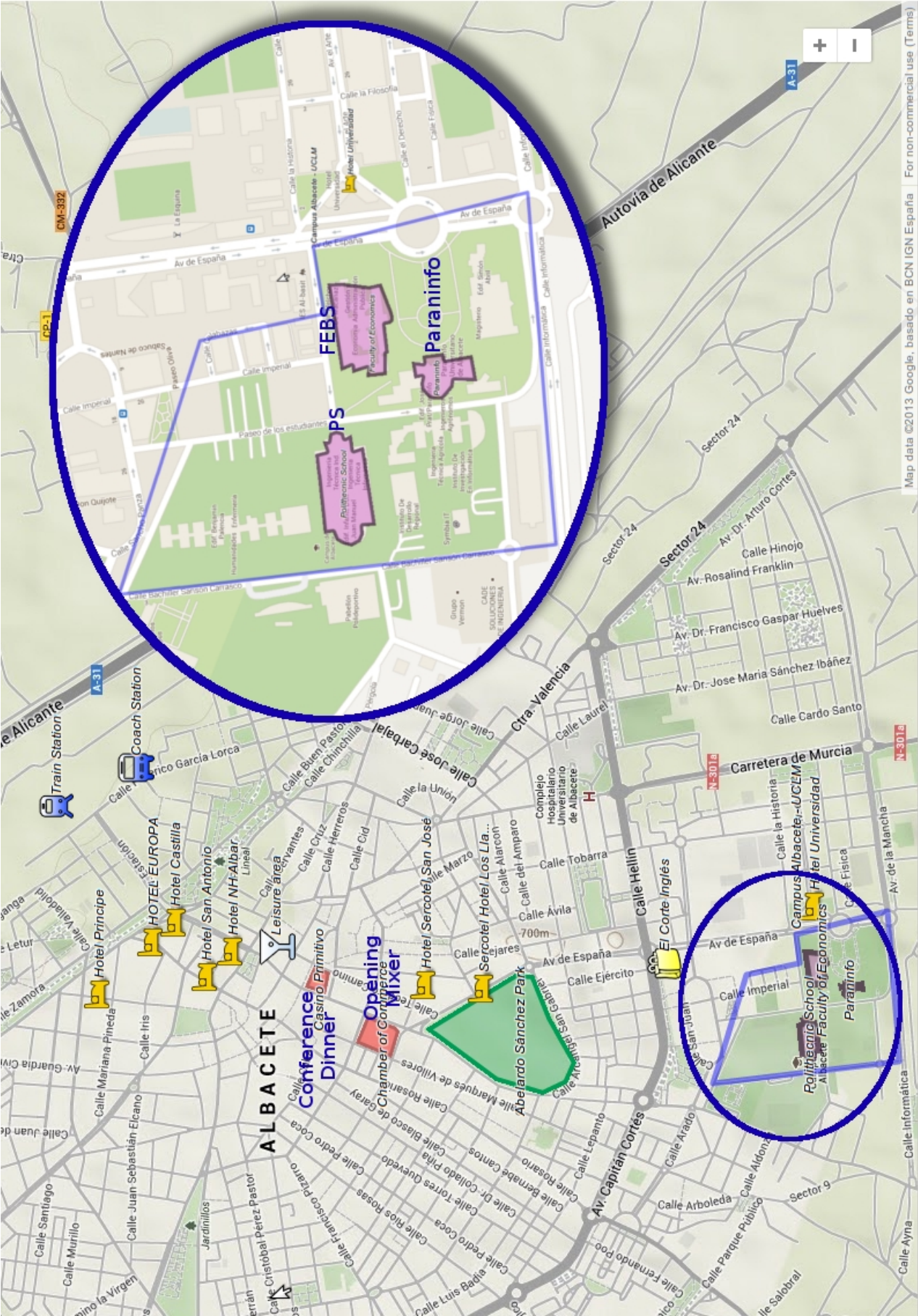|	
09:00 - 09:55	Invited Talk - Steve Scott
10:00 - 11:20	Contributed Talks
11:20 - 11:50	Tapas Break, sponsored by TIBCO
11:50 - 13:10	Contributed Talks
13:10 - 13:30	Closing Remarks
13:30 - 15:00	Lunch/Paella, sponsored by the Dep. of Mathematics, UCLM

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[1] the registration desk will be located in the main hall of the Faculty of Economics

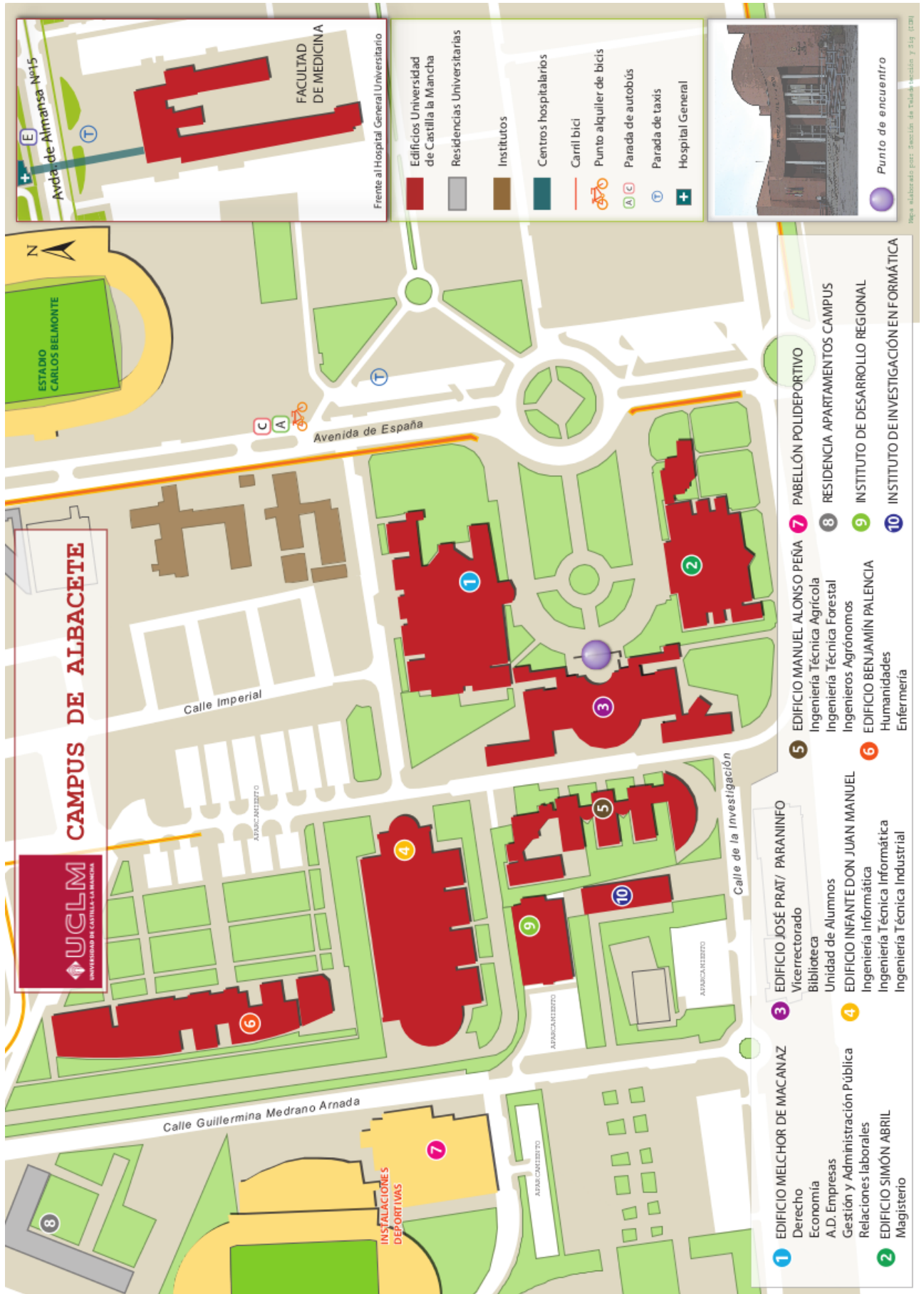[2] lunch on Tuesday will only be provided for attendees registered for the tutorials

[3] admission will require to show your conference badge

[4] admission to the Conference Dinner will be via ticket only

Map of Albacete

University of Castilla-La Mancha in Albacete

CAMPUS DE ALBACETE

UCLM — UNIVERSIDAD DE CASTILLA-LA MANCHA

ESTADIO CARLOS BELMONTE

Calle Imperial

Avenida de España

Calle de la Investigación

Calle Guillermina Medrano Arnada

INSTALACIONES DEPORTIVAS

APARCAMIENTO

FACULTAD DE MEDICINA

Avda. de Almansa Nº15

Frente al Hospital General Universitario

Edificios Universidad de Castilla la Mancha
Residencias Universitarias
Institutos
Centros hospitalarios
Carril bici
Punto alquiler de bicis
Parada de autobús
Parada de taxis
Hospital General

Punto de encuentro

Mapa elaborado por: Sección de Teledetección y Sig (CDB)

1 EDIFICIO MELCHOR DE MACANAZ
Derecho
Economía
A.D. Empresas
Gestión y Administración Pública
Relaciones laborales

2 EDIFICIO SIMÓN ABRIL
Magisterio

3 EDIFICIO JOSÉ PRAT/ PARANINFO
Vicerrectorado
Biblioteca
Unidad de Alumnos

4 EDIFICIO INFANTE DON JUAN MANUEL
Ingeniería Informática
Ingeniería Técnica Informática
Ingeniería Técnica Industrial

5 EDIFICIO MANUEL ALONSO PEÑA
Ingeniería Técnica Agrícola
Ingeniería Técnica Forestal
Ingenieros Agrónomos

6 EDIFICIO BENJAMÍN PALENCIA
Humanidades
Enfermería

7 PABELLÓN POLIDEPORTIVO

8 RESIDENCIA APARTAMENTOS CAMPUS

9 INSTITUTO DE DESARROLLO REGIONAL

10 INSTITUTO DE INVESTIGACIÓN EN FORMÁTICA

Travel information

Venue

The conference takes place in the

> Albacete Campus,
> University of Castilla-La Mancha,
> Avda. España s/n,
> 02071 Albacete,
> Spain

Tutorials will be held in the Polytechnic School (PS, building no. **4** in the campus map on page 8), plenary sessions will take place in the "Paraninfo" (building no. **3**) and contributed sessions will be presented in the Faculty of Economics and Business Sciences (FEBS, building no. **1**)

Travelling to the University of Castilla-La Mancha in Albacete

Information on getting to the University from main airports and different nearby cities is provided in the conference website at http://www.edii.uclm.es/~useR-2013/#Travel. Albacete can be conveniently reached by bus and train from Alicante, Madrid, Murcia and Valencia.

Parking

Complimentary car parking is available in the allocated car parks on campus. If the parking in front of the Faculty of Economics and Business Sciences is full you will probably find some places in the parking by the Polytechnic School. Parking lots can be easily located while driving on campus. Disabled parking spaces are available close to the entrance of main buildings.

Bus

There a number of bus lines that will take you from the city centre to the campus. Bus line A (*Línea A*) stops in the city centre and has another stop close to the Faculty of Economics and Business Sciences. Bus line C (*Línea C*) will take a different route from the city centre until the university campus. Tickets can be purchased on the bus at a cost of €1.20. Bus stops are shown at the top in the campus map on page 8 (next to the bicycle symbol).

General information

Conference registration

Registration for the conference will take place in the hall of the Faculty of Economics and Business Sciences (FEBS, building no. **1**). The registration desk will be available during the whole duration of the conference. The staff at the registration desk will be happy to provide any assistance and information to participants.

Internet access

If you have a WiFi enabled laptop you may access basic internet services by connecting to the "uclm_eventos" wireless network. You will need to enter a username and password which will be given to you when you register for the conference. Participants from academic institutions will be able to use the "eduroam" wireless network.

A free access computer room will be open in the first floor of the Polytechnic School from Tuesday morning to Friday afternoon. This room is labelled as *Libre Acceso* in the map on page 14 (top-right). Note that this is an open access room and that it is open to the general public.

Meals

During tutorials, tapas breaks will be provided on the ground floor of the Polytechnic School. Lunch will be served in the hall of the Faculty of Economics and Business Sciences. During the conference, tapas breaks and lunches will be provided in the hall of the Faculty of Economics and Business Sciences.

The Opening Mixer (Tuesday) will be held in the gardens of the Chamber of Commerce (see map on page 7). The Tapas Cocktail and Poster Session (Wednesday) will take place in the hall of Faculty of Economics and Business Sciences. Beer, wine, non-alcoholic drinks and light snacks will be served at both events.

The conference dinner will take place on Thursday in the restaurant "Casino Primitivo", which is conveniently located in the city centre. See map on page 7.

Other options for meals are snacks include the "cafeterias" on the basement of the Polytechnic School and the first floor of the Faculty of Economics and Business Sciences. There are a number of bars and restaurants by the campus which provide different types of food (including tapas, of course) and drinks.

Messages

The telephone number of porter's lodge in the Faculty of Economics and Business Science is (+34) 967 59 92 00, Ext. 2105. This telephone number can be used to be contacted in case of an emergency.

Smoking Policy

Smoking is forbidden anywhere in University buildings, including bar areas. Furthermore, smoking is not permitted outside buildings if the smoke is likely to drift through open doors or windows, or inconvenience people entering or leaving the building.

Program Committee and Conference Sponsors

Program Committee

Esteban Alfaro-Cortés (Chair)	Michela Cameletti
Ramón Diaz-Uriarte	Noelia García-Rubio (Chair)
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Brian Peterson	Barry Rowlingson
Deepayan Sarkar	Matt Shotwell
Matthias Templ	Luis Torgo
Achim Zeileis	

Conference Sponsors

Support from our sponsors is gratefully acknowledged.

Conference sponsors

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Revolution Analytics
RStudio
TIBCO

Exhibitors

Revolution Analytics and RStudio will be exhibiting in the hall of the Faculty of Economics and Business Sciences. The publishers John Wiley & Sons, Springer and Taylor and Francis will be exhibiting as well.

Medical and emergency information

Medical assistance

There is not a Health Clinic on campus, but there is a hospital close to the main campus, as shown in the map on page 7. Visitors in need of emergency assistance can dial (free of charge) the national emergency line at 112.

Emergency services and fire procedures

Revisar

For help in an emergency dial 112. Visitors are asked to familiarise themselves with the University's fire procedures which are displayed in the university buildings.

On discovering a fire in a building:
Raise the alarm by breaking the glass in the nearest *Break Glass* point.

On hearing the fire alarm:
Stop what you are doing.
Leave by the nearest Fire Exit.
Walk calmly, do not run.
Do not stop to collect personal belongings.
Make your way to the nearest evacuation point, standing well clear of the building.
Do not re-enter the building until told to do so by the Fire Service or University Security Staff.

Reporting incidents

In the event of an accident or other incident occurring on University premises, please report immediately to the porter's lodge (Ext. 2105) who will then take appropriate action.

TUTORIALS

Tuesday 9th July

Participants are welcome to arrive at 08:30 for registration in the Faculty of Economics and Business Sciences. The morning tutorials will be held from 09:30 - 13:00, with a break for coffee at 11:00 - 11:30. Lunch (provided for all tutorial participants) is scheduled for 13:00 - 14:30. The afternoon tutorials will be held from 14:30 - 18:00, with a break for coffee at 16:00 - 16:30.

Morning Tutorials

- **Esteban Alfaro, Matías Gámez and Noelia García**: Classification with Individual and Ensemble Trees
- **Jason Bryer and Robert Pruzek**: Introduction to Propensity Score Methods with R
- **Romain François and Hadley Wickham**: C++ and Rcpp for beginners
- **Markus Gesmann and Diego de Castillo**: Interactive web graphics with R and googleVis
- **Stephanie A. Kovalchik**: Performing Meta-Analysis with R
- **Mark van der Loo and Edwin de Jonge**: An introduction to data cleaning with R
- **Martin Morgan**: R/Bioconductor for Analysis and Comprehension of High-throughput Genomic Data
- **George Ostrouchov and Drew Schmidt**: Programming with Big Data in R
- **Xavier de Pedro**: Web 2.0 interfaces for R with Tiki
- **Havard Rue**: Bayesian computing with INLA: An introduction
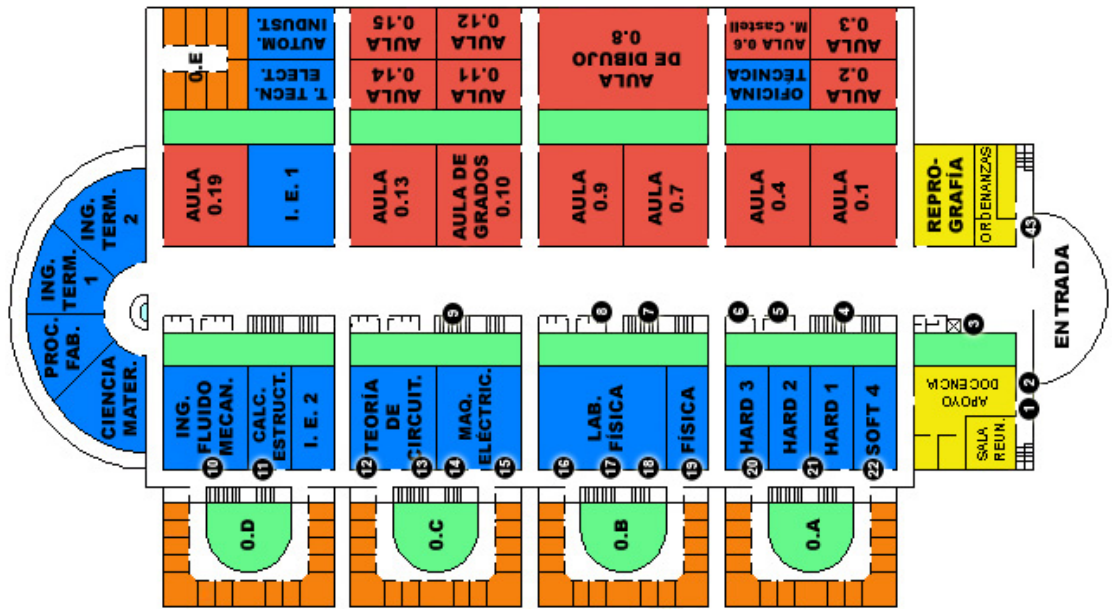- **Garrett Grolemund**: Data visualization with ggplot2

Afternoon Tutorials

- **Roger Bivand**: Using Spatial Data
- **Karim Chine**: R and Cloud Computing for Higher Education and Research
- **Andrea Dessi, Enrico Branca, Federico Figus**: Applied Financial Analysis and Human Capital Risk Management
- **Marco Scutari**: Learning Bayesian Networks in R: an Example in Systems Biology
- **Max Kuhn**: Predictive Modeling with R and the caret Package
- **Rui Paulo and Jesús Palomo**: Statistical Analysis of Computer Models using R
- **Josh Paulson and Joe Cheng**: Developing web applications with R and shiny
- **Pete Philipson**: Joint Modelling of Repeated Measurements and Time-to-Event Data
- **Andy South**: Making beautiful world maps with country-referenced data using rworldmap and other R packages
- **Tobias Verbeke and StephanWahlbrink**: Eclipse/StatET and Architect for Professional R Development
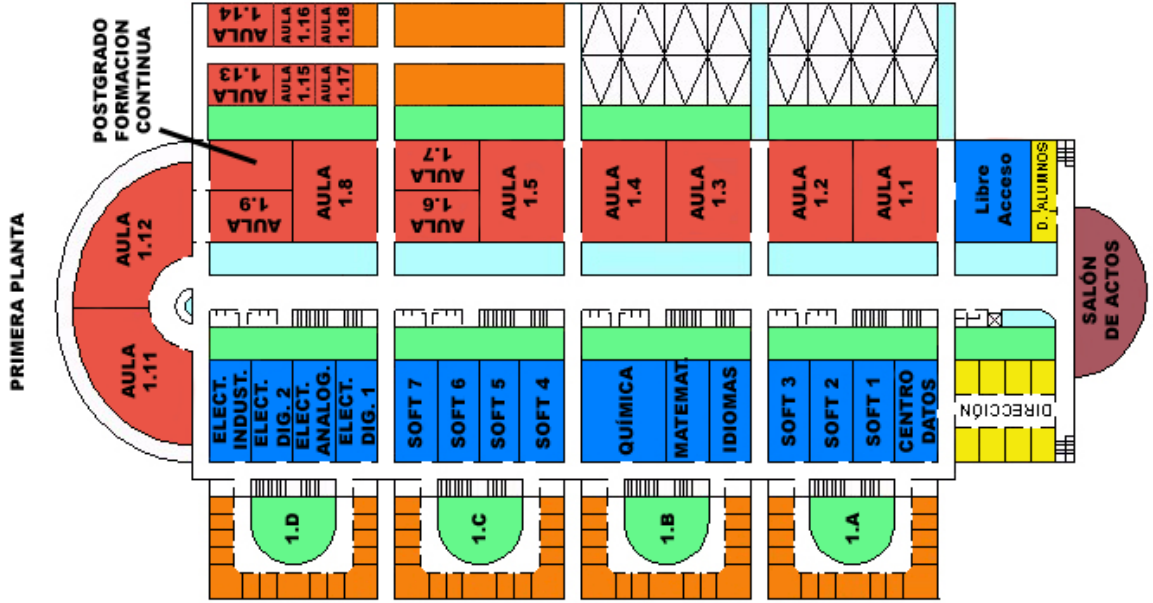- **Alex Zolotovitski**: How to work with large R projects

Opening Mixer

All conference attendees are welcome to join us for drinks at the gardens of the Chamber of Commerce in the city centre (see location in the map on page 7), 20:00 - 23:00. Beer, wine, non-alcoholic drinks, tapas and light snacks will be available for all attendees.

Polytechnic School, Albacete, University of Castilla-La Mancha.

First Floor

Ground Floor

Conference Timetable

Wednesday 10th July

09:00	**Opening Session, Paraninfo**

09:30	**Invited Talk, Paraninfo, Chair: Gonzalo García-Donato**
	Håvard Rue — Bayesian computing with INLA and the R-INLA package

10:30		**Bioinformatics, FEBS 1, Chair: Ramón Díaz-Uriarte**
		Hugh Shanahan — Integrating R with a Platform as a Service cloud computing platform for Bioinformatics applications.
		Inma Tur — Simulation of molecular regulatory networks with graphical models
		Raivo Kolde — GOsummaries: an R package for showing Gene Ontology enrichment results in the context of experimental data
		Laure Cougnaud — Analysis of qPCR data in R
	Focus I	**Computational Challenges in Molecular Biology I, FEBS 2, Chair: Tobias Verbeke**
		Yury Aulchenko — The GenABEL suite for genome-wide association analyses
		Thomas Poulsen — Making enzymes with R
		Filippo Biscarini — Use of molecular markers to estimate genomic relationships and marker effects: computation strategies in R
		Insa Winzenborg — High Content Screening Analysis in R
		Environmental statistics I, FEBS 9, Chair: Andy South
		Jean-Michel Perraud — rClr package - low level access to .NET code from R
		María Victoria Jiménez Franco — Reproducible Research in Ecology with R: distribution of threatened mammals in Equatorial Guinea.
		Jiří Kadlec — Using R for Mapping the Spatial Extent of Meteorological and Hydrological Drought Events
		Statistics/Biostatistics I, FEBS 10, Chair: Stephanie Kovalchik
		Yuri Possokhov — Three-component decomposition of coal spectrum in R
		Konstantin Chizhov — Method of comparison of actions of the liquidators of the accident on Chernobyl Nuclear Power Plant on the basis of fragmentation of their routes and encryption it in a form similar to the DNA
		Leonardo Collado Torres — Differential expression analysis of RNA-seq data at base-pair resolution in multiple biological replicates
		Jan Graffelman — Statistical inference for Hardy-Weinberg equilibrium with missing data

11:50	**Tapas Break, sponsored by Revolution Analytics**

12:20		**Econometric Software, FEBS 1, Chair: Achim Zeileis**
		R. Scott Hacker — Hansel: A Deducer Plug-In for Econometrics
		Giovanni Millo — Robust standard errors for panel data: a general framework
		Christoph Bergmeir — Rsiopred: An R package for forecasting by exponential smoothing with model selection by a fuzzy multicriteria approach
		Genaro Sucarrat — AutoSEARCH: Automated General-to-Specific Model Selection
	Focus II	**Computational Challenges in Molecular Biology II, FEBS 2, Chair: Hugh Shanahan**
		Adi Tarca — What did we learn from the IMPROVER Diagnostic Signature Challenge?
		Tal Galili — Deciphering the tRNA operational code - using R
		Andreas Leha — Big Data and Reproducibility – Building the Bridge
		Robert Ness — Topology-based Hypothesis Generation on Causal Biological Networks using igraph
		Environmental statistics II, FEBS 9, Chair: Roger Bivand
		Alejandro Alija — Driving R to the air quality industry. NanoEnvi Analyst: a tool for designing large-scale air quality plans for improvement in ambient air quality
		Daniele Amberti — Sequential Design of Experiments for model selection: an application to the energy sector
		Damian Zasina — Emission inventory supported by R: dependency between calorific value and carbon content for lignite
		Statistics/Biostatistics II, FEBS 10, Chair: Steve Scott
		Colin Rundel — Leveraging GPU libraries for efficient computation of Gaussian process models in R
		Jason Bryer — TriMatch: An R Package for Propensity Score Matching of Non-Binary Treatments
		Christophe Genolini — KmL3D: K-means for Joint Trajectories
		Mikiyas Gebresamuel — Stochastic Modeling of Claim Frequency in the Ethiopian Motor Insurance Corporation: A Case Study of Hawassa Disrict

15

13:40	**Lunch**	
15:30	**Invited Talk, Paraninfo, Chair: David Smith**	
	Hadley Wickham	BigR data
16:30	**Time Series Analysis, FEBS 1, Chair: Rob Hyndman**	
	Constantino Antonio García Martínez	Heart Rate Variability analysis in R with RHRV
	David Bronaugh	Massively Parallel Computation of Climate Extremes Indices using R
	Alice Cleynen	Segmentor3IsBack: an R package for the fast and exact segmentation of Seq-data
	Rob Hyndman	hts: R tools for hierarchical time series
	Database applications, FEBS 2, Chair: Xavier de Pedro	
	Finn Sandø	Introducing SimpleDataManager - A simple data management workflow for R
	Guillaume Le Ray	SenseLabOnline: Combining agile data base administration with strong data analysis
	Jan Wijffels	ffbase: statistical functions for large datasets
	Using R for Teaching I, FEBS 9, Chair: María José Haro	
	Virgilio Gómez Rubio	Teaching statistics interactively with Geogebra and R
	Alfredo Sánchez Alberca	RKTeaching: a new R package for teaching Statistics
	Lara Lusa	genertest: a package for the developing exams in R
	Achim Zeileis	Flexible generation of e-learning exams in R: Moodle quizzes, OLAT assessments, and beyond
	Karim Chine	Teaching R in the Cloud
	Statistics/Biostatistics III, FEBS 10, Chair: Anabel Forte	
	Maria Helena Gonçalves	cold: a package for Count Longitudinal Data
	Vik Gopal	kPop: An R package for the interval estimation of the mean of the selected populations.
	Tatjana Kecojevic	GLM - a case study: Antagonistic relationships between fungi and nematodes
	John Kloke	R Packages for Rank-based Estimates
17:50	**Tapas Cocktail, sponsored by Google, and**	
	Poster Session, Hall of Fac. of Economics and Business Science	

(Focus III — vertical label spanning the 16:30 block)

POSTER SESSION

Bioinformatics

1. Nora M. Villanueva: seq2R: Detecting DNA compositional change points

2. Wolfgang Raffelsberger: gxTools: Multiple approaches integrated in automated transcriptome analysis

Chemometrics/Computational physics

3. Yuri Possokhov: Automation of spectroscopic data processing in routine tests of coals using R

Econometrics

4. Eui-Kyung Lee: Asymmetric Volatility Transmission in Airline Related Companies in Stock Markets

5. Giovanni Millo: Panel time series methods in R

Environmetrics/Ecological Modeling

6. Mark Liniger: Climate Analysis Tools - An operational environment for climate products

7. Julia Marczewska: Statistical analysis with R of an effect of the air entrainment and the cement type on fresh mortar properties

8. Krzysztof Maciejewski: Statistical analysis in R of environmental and traffic noise in Kielce

9. Ilya Kudrin: Using R for dosimetry extremum tasks

10. Francisco Alonso-Sarría: An R script to model monthly climatic variables with GLM to be used in hydrological modelling

11. Yousef Erfanifard: Application of the nearest neighbour indices in spatstat R package for Persian oak (Quercus brantii var. persica) ecological studies in Zagros woodlands, Iran

Marketing/Business Analytics

12. Anna Bednarczyk: Pharmaceutical market analysis with R

13. Youngchul Shin: Efficiency analysis of companies using DEA model with R

Official statistics/Public policy

14. María del Mar Rueda: Using R to estimate parameters from multiple frames

15. Antonio Arcos: Calibration in Complex Survey using R

16. Carlos Pérez-González: Small area data visualization using ggplot2 library

17. Emilio L. Cano: Standardisation on Statistics: ISO Standards and R Tools

18. Céline Bugli: Using R2wd package to automatize your reporting from R to Microsoft Word document - An application of automatic report for a survey in telecommunication

Other

19. Petr Maj: TestR: R language test driven specification

20. Karim Chine: R as a Data Operating System for the Cloud

21. Monika Zuchowicz: Analysis of data from student surveys at Kielce University of Technology using R Commander and R Data Miner

22. Gergely Daróczi: A cloud infrastructure for R reports

23. Kurt Ranalter: On thinning spatial polygons

24. Milena Nowek: Data mining with Rattle

25. Kamil Mogielski: Analysis of load capacity of pipes with CIPP liners using R Rattle package

26. Jaynal Abedin: edeR: Email Data Extraction using R

27. David Scott: hwriterPlus: Extending the hwriter Package

Social science

28. Yasuto Nakano: Quantitative Text Analysis of readers' contributions on Japanese daily newspapers

Statistics/Biostatistics

29. Peyman Eshghi: R/Statistica Interface

30. Guillermo Valles Castellano: AMOEBA+ with R

31. Javier Roca-Pardiñas: Software developments for non-parametric ROC regression analysis

32. Javier Roca-Pardiñas: An R-package forWeighted Smooth

33. Marta Sestelo: Variable selection algorithm implemented in FWDselect

34. Javier Roca-Pardiñas: TPmsm: Estimation of the Transition Probabilities in 3-State Models

35. Marta Sestelo: NPRegfast: Inference methods in regression models including factor-by-curve interaction

36. Jorge Luis Ojeda Cabrera: intRegGOF: Modelling with the aid of Integrated Regression Goodness of Fit tests.

37. Moisés Gómez-Mateu: A Web-based Application as a Dynamical Tool for Clinical Trial Researchers

38. Sandra González Maldonado: Biomarker Discovery using Metabolite Profiling Data: Discussion of different Statistical Approaches.

39. Klaus Marquart: Reproducible and Standardized Statistical Analyses using R

40. Francisco Javier Rodríguez Cortés: Point process spatio-temporal product density estimation with R

41. Jonatan A. González: Spatio-Temporal ANOVA for replicated point patterns using R

42. Xavier Barber: Estimation of parameters using several regression tools in sewage sludge by NIRS

43. Margarita Rincón Hidalgo: Recipe for the implementation of a population dynamics bayesian model for anchovy: Supercomputing using doMC , rjags and coda R packages

Teaching

44. Antonio Arcos: A R tool to teach descriptive statistics

45. Francisco Gomariz-Castillo: Using R as continuous learning support in Sea Sciences degree

46. Xosé M. Martínez: Teaching introductory statistics to students in economics: a comparison between R and spreadsheet

47. Pilar Sanmartin: Introducing statistic and probability concepts with R in engineering grades

Thursday 11th July

09:00	**Invited Talk, Paraninfo, Chair: J.J. Allaire**	
	Duncan Murdoch	What's New in R 3.0.x?
10:00	**Machine learning I, FEBS 1, Chair: Esteban Alfaro**	
	Bojan Mihaljevic	BayesClass: An R package for learning Bayesian network classifiers
	Lala Septem Riza	Constructing fuzzy rule-based systems with the R package "frbs"
	Selçuk Korkmaz	bbRVM: an R package for Ensemble Classification Approaches of Relevance Vector Machines
	Max Kuhn	Classification Using C5.0
	Marketing/Business Analytics I, FEBS 2, Chair: José Luis Alfaro	
	Louis Bajuk-Yorgan	Extending the Reach of R to the Enterprise
	David Smith	Big-data, real-time R? Yes, you can.
	Alex Zolotovitski	Large-Scale Predictive Modeling with R and Apache Hive: from Modeling to Production
	Allan Engelhardt	Non-Life Insurance Pricing using R
	Official statistics I, FEBS 9, Chair: Alexander Kowarik	
	Giulio Barcaroli	ReGenesees: symbolic computation for calibration and variance estimation
	Martijn Tennekes	Big data exploration with tabplot
	Valentin Todorov	rwiot: An R package for Input-Output analysis on the World Input Output Database (WIOD)
	Alexander Kowarik	Make Your Data Confidential with the sdcMicro and sdcMicroGUI packages
	Statistical Modelling I, FEBS 10, Chair: Heather Turner	
	Natalie Koziol	MRCV: A Package for Analyzing the Association Among Categorical Variables with Multiple Response Options
	Alexandra Kuznetsova	Different tests on lmer objects (of the lme4 package): introducing the lmerTest package.
	Miguel Munoz Zuniga	Implementation of advanced polynomial chaos expansion in R for uncertainty quantification and sensitivity analysis
	Maengseok Noh	Dhglm & frailtyHL : R package for double hierarchical genralized linear models and frailty models
11:20	**Tapas Break, sponsored by Oracle**	
11:50	**Machine learning II, FEBS 1, Chair: Max Kuhn**	
	Jim Harner	rknn: an R Package for Parallel Random KNN Classification with Variable Selection
	Matthias Eckardt	Patterns of Multimorbidity: Graphical Models and Statistical Learning
	Tristan Mary-Huard	ExactSampling: risk evaluation using exact resampling methods for the k Nearest Neighbor algorithm
	A. Pedro Duarte Silva	Classifying High-Dimensional Data with the The HiDimDA package
	Marketing/Business Analytics II, FEBS 2, Chair: Noelia García	
	Kamson Lai	Groupon Impact Report: Using R To Power Large-Scale Business Analytics
	Joseph Rickert	Statistics with Big Data: Beyond the Hype
	Andrie de Vries	Using survival analysis for marketing attribution (with a big data case study)
	Mark Hornick	Big Data Analytics - Scaling R to Enterprise Data
	Official statistics II, FEBS 9, Chair: Matthias Templ	
	Susie Jentoft	Using R for exploring sampling designs at Statistics Norway
	Anna Dyga	Application of R in Crime Data Analysis
	Andy South	Maps can be rubbish for visualising global data : a look at other options.
	Han Lin Shang	The use of demography package for population forecasting
	Statistical Modelling II, FEBS 10, Chair: Benjamin French	
	Natalya Pya	Shape constrained additive modelling in R
	Rosalba Radice	Semiparametric bivariate probit models in R: the SemiParBIVProbit package
	Peter Ruckdeschel	"RobExtremes": Robust Extreme Value Statistics — a New Member in the RobASt-Family of R Packages
	Heather Turner	Generalized Bradley-Terry Modelling of Football Results
13:10	**Lunch**	

Focus IV (10:00 block); Focus V (11:50 block)

15:00	**Invited Talk, Paraninfo, Chair: Matías Gámez**	
	José Manuel Benítez-Sánchez	Computational Intelligence in R
16:00	**useR! 2013 Prize Awards, Paraninfo**	
16:30	**Programming, FEBS 1, Chair: Duncan Murdoch**	
	Rasmus Bååth	An exposé of naming conventions in R
	Majid Sarmad	Statistical Machine Translation tools in R
	Colin Gillespie	Reference classes: a case study with the poweRlaw package
	Felipe Ortega	Combining R and Python for scientific computing
	Biostatistics: Regression Methodology, FEBS 2, Chair: Gonzalo García-Donato	
	Giampiero Marra	Copula sample selection modelling using the R package SemiParSampleSel
	Andreas Alfons	Robust model selection for high-dimensional data with the R package robustHD
	Marek Molas	HGLMMM and JHGLM: Package and codes for (joint)hierarchical generalized linear models
	Yiwen Zhang	Fitting regression models for polytomous data in R
	R in the Central Banks, FEBS 9, Chair: Guiseppe Bruno	
	Beat Hulliger	Outliers in multivariate incomplete survey data
	Matjaž Jeran	Use of R and LaTeX for periodical statistical publications
	Giuseppe Bruno	Solving Dynamic Macroeconomic Models with R
	R in companies, FEBS 10, Chair: Josh Paulson	
	Joe Cheng	Shiny: Easy web applications in R
	Aleksandar Blagotić	rapport, an R report template system
	J.J. Allaire	Seamless C++ Integration with Rcpp Attributes
	Tobias Verbeke	The R Service Bus: New and Noteworthy

(Left margin label for 16:30 block: Focus VI)

17:50	**Tapas Break, sponsored by R-Studio**	
18:20	**Kaleidoscope I, FEBS 1, Chair: George Ostrouchov**	
	Marco Scutari	packdep: network abstractions of CRAN and Bioconductor
	Douglas Mason	The Beatles Genome Project: Cluster Analysis of Popular Music in R
	Richard Cotton	The secrets of inverse brogramming
	Kaleidoscope II, FEBS 2, Chair: David Conesa	
	Charles DiMaggio	Mapping Hurricane Sandy Damage in New York City
	Graeme Hickey	Unlocking a national adult cardiac surgery audit registry with R
	Alexander Bertram	Renjin: A new R interpreter built on the JVM
	Lightning Talks I, FEBS 9, Chair: Emilio L. Cano	
	Jonathan Cornelissen	DataMind.org: developing an interactive online education platform for R
	Joseph Rickert	Revolution Analytics supporting the R Community
	Gergely Daróczi	Transforming R objects to Pandoc's markdown
	William Hughes	A Simple (Simplistic?) Approach to Conjoint Analysis using R
	Tal Galili	Updating R on Windows/Mac (the installr package)
	Catherine Hurley	Seriation for visualisation with package DendSer
	Markus Gesmann	R in Insurance
	Aleksandar Blagoti?	Rapport - reproducible statistical templates
	David Smith	What is R? (with a surprise)
	Kevin Moore	Breaking the mould without breaking the system - the challenges of change
	Sascha Frydman	Mapping the Human Brain: How I Connected an MRI Analysis System with Rcpp
	Scott Sherrill-Mix	glmnet and latent HIV: twists in the hunt for a cure
	Lightning Talks II, FEBS 10, Chair: Virgilio Gómez-Rubio	
	Karsten Weinert	Handling data with the datamart package
	Jan Graffelman	Visualizing correlation matrices with R
	Romain Francois	Rcpp is ready
	Andy South	Mapping half a million petition signatures using R
	Ramon Diaz-Uriarte	Using R for the parallelized analysis of big genomics data
	Jonathan McPherson	RStudio Debugging Features Preview
	JJ Allaire	Reproducible Presentations with RStudio
	Thierry Onkelinx	Using mixed models for quality control of citizen science data
	Alexander Meyer	Transcatheter Heart Valve Registry Data Explorer - a Shiny Use Case
	Mario Inchiosa	10 Reasons to Use Revolution R Enterprise - Free to Academics
	Alex Zolotovitski	R work journal
	Wolfgang Raffelsberger	Hints for R faster R code
	Przemyslaw Biecek	R packages with PISA data. Let's learn about education!

(Left margin label for 18:20 block: Kaleidoscope/Lightning Talks)

21:30	**Conference Dinner, Restaurant "Casino Primitivo"**	

Friday 12th July

09:00	**Invited Talk, Paraninfo, Chair: TBC**	
	Steve Scott	Bayesian computation in C++ with R as an interface
10:00	**Visualization/Graphics I, FEBS 1, Chair: Hadley Wickham**	
	Vladimir Skvortsov	Radar data acquisition, analysis and visualization using reproducible research with Sweave
	Sacha Epskamp	Network Visualizations of Statistical Relationships and Structural Equation Models
	Oliver Bracht	tableR - An R based approach for creating table reports from surveys
	Kimberly Speerschneider	likert: An R Package for Visualizing and Analyzing Likert-Based Items
	Richard Heiberger	Design of likert graphics with lattice and mosaic
	High performance computing, FEBS 2, Chair: Marco Scutari	
	Emma Huang	Facilitating genetic map construction at large scales in R
	Drew Schmidt	Elevating R to Supercomputers
	Jan Vitek	R in Java: Why and How?
	Junji Nakano	Rhpc: A package for High-Performance Computing
	Modelling and Optimization, FEBS 9, Chair: Franciso Parreño	
	Tomoaki Nakatani	DCchoice: a package for analyzing dichotomous choice contingent valuation data
	Aditya Bhagwat	Systems biology: modeling network dynamics in R
	Ching-Shih Tsou	Evolutionary multi-objective optimization with R
	Emilio L. Cano	An integrated Solver Manager: using R and Python for energy systems optimization
	GUIs/Interfaces, FEBS 10, Chair: Jan Graffelman	
	Jorge Luis Ojeda Cabrera	Using Lazy–Evaluation to build the G.U.I.
	Reijo Sund	Survo for R - Interface for Creative Processing of Text and Numerical Data
	Zdzisław Piasta	Using R in teaching statistics, quality improvement and intelligent decision support at Kielce University of Technology
11:20	**Tapas Break, sponsored by TIBCO**	
11:50	**Visualization/Graphics II, FEBS 1, Chair: Jason Bryer**	
	Willem Ligtenberg	A ggplot2 builder for Eclipse/StatET and Architect
	Jason Waddell	Visualizing Multivariate Contrasts
	David Scott	metaplot: Flexible Specification for Forest Plots
	Franciso Alonso-Sarría	GaRGoyLE: A map composer using GRASS, R, GMT and Latex
	High performance computing II, FEBS 2, Chair: Felipe Ortega	
	Dan Fraser	Open Source Product Creation, Bosco Team
	Yann Richet	Practical computer experiments in R
	Hannes Mühleisen	Symbiosis - Column Stores and R Statistics
	Michael Sannella	Memory Management in the TIBCO Enterprise Runtime for R (TERR)
	Reproducible Research, FEBS 9, Chair: Emilio L. Cano	
	David Montaner	TiddlyWikiR: an R package for dynamic report writing.
	Randall Schumacker	Synthesis of Research Findings Using R
	Isaac Subirana	compreGroups updated: version 2.0
	Statistical Modelling III, FEBS 10, Chair: Rui Paulo	
	Anabel Forte Deltell	BayesVarSel. An R package for Bayesian Variable Selection.
	Dalia Chakrabarty	Bayesian learning of model parameters given matrix-valued information, using a new matrix-variate Gaussian Process.
	David Conesa	FluDetWeb: an interactive web-based system for the early detection of the onset of influenza epidemics
	Jason Osborne	Looking for (and finding!) hidden additivity in complete block designs with the hiddenf package.
13:10	**Closing Remarks, Fac. of Economics and Business**	
13:30	**Lunch/Paella**	

The left margin labels read **Focus VII** (spanning the 10:00 block) and **Focus VIII** (spanning the 11:50 block).

Printed abstracts will not be provided at the conference. The abstract booklet is available to view at http://www.edii.uclm.es/~useR-2013/docs/useR2013_abstract_booklet.pdf.

Please note that there are three different formats for contributed talks:

useR! Kaleidoscope: These sessions will give a broad overview of the many different applications of R and should appeal to a wide audience.

useR! Focus Sessions: These sessions will focus on topics of special interest and may be more technical.
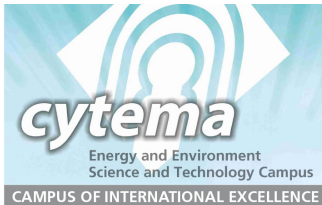
useR! Lightning Talks: These sessions, with oral presentations of 5 minutes, provide a platform for participants to speak on any R-related topic and should particularly appeal to R newbies.

Information for Speakers, Session Chairs and Poster Presenters

▷ Presenters of Kaleidoscope and Focus contributed talks, please note that your talk is scheduled for 17 minutes, followed by 3 minutes discussion.

▷ Presenters of Lightning talks, please note that your talk is scheduled for 5 minutes, with 1 minute question/transition time. A variation of the *pecha kucha* and *ignite* formats will be used, in which you must provide 15 slides to accompany your talk and each slide will be shown for 20 seconds. Slides must be provided in PDF format and sent to useR-2013@R-project.org by 17:00 GMT, Friday 5 July, 2013.

▷ Each useR! Invited Lecture will last 45 minutes, with 10 minutes at the end of the lecture reserved for questions.

▷ Technical details: All lecture rooms are equipped with an LCD projector and a computer or laptop that is connected to the internet. Unless speakers require their own laptop for software demonstrations, speakers are expected to ensure that a PDF of their presentation slides is on the computer provided, before the start of their session. For presenters of Lightning Talks, this is achieved by sending the slides in advance as described above; for presenters of other talks, please see the conference assistant in the relevant lecture room to arrange transfer of your slides. Conference assistants will be available in the lecture rooms at least 10 minutes before the program starts each day and at least 10 minutes before the program recommences after each coffee or lunch break. Please arrive well before the start of your session and introduce yourself to the Session Chair. During your talk, please look out for the countdown cards that the Chair will use to signal that your time is coming to a close.

▷ Session Chairs: Please check the Registration Desk to know whether all your speakers have arrived to the conference prior to your session. Please arrive well before the start of your session to meet the speakers and ensure that they have a PDF of their slides on the room computer. Countdown cards will be provided to help you keep the speakers to time. If we are aware that a speaker is missing up to 2 hours prior to the relevant session, then the other talks will be brought forwards and a notice placed on the News Board, otherwise can we please request that Chairs keep to the timetable, and in the event of a missing speaker, advise the audience to go to an alternative talk.

▷ For those preparing posters, the poster boards can accommodate posters of size A0 (Portrait) or A1 (Landscape). Poster presenters should arrive at least 15 minutes prior to the start of the poster session to put up their poster. Boards will be put in place on Wednesday morning. Posters will have allocated boards as numbered in the schedule. Presenters should stay in the vicinity of their poster for the first hour of the session. Please take down your poster at the end of the session; if you are unable to stay until the end (20:00) remaining posters will be removed and can be retrieved from the registration desk the next day.

Thank you

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