

Georg Ruß
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Personal

born 26.03.1981 in Wernigerode (Germany)
married to Maria Patrunky since 2007
two daughters, born 2008/2010

Education

currently PhD studies at Otto-von-Guericke-Universität Magdeburg	expected 2011
<i>Master: Computer Science</i> , grade 1,4, minor: chemistry	2006
Universität Magdeburg, computer science	2002–2006
Technische Universität Ilmenau, computer science	2000–2002
A-levels, grade 1,4, G.-Hauptmann-Gymnasium Wernigerode	1999

Awards

<i>Best Graduate Student Paper Award</i> , ICPA-Konferenz, Denver,	2010
<i>VIP-Award, Who is Who in Data Mining</i> , ICDM-Konferenz, Leipzig	2009
<i>Best Student Paper Award</i> auf der NAFIPS-Konferenz	2007
PhD scholarship of Sachsen-Anhalt (federal state)	2006
2nd place at <i>Lucent International Science Award (LISA)</i>	2001
Award of Martin-Luther-Universität Halle-Wittenberg for computer science work at grammar school	1999

Work Experience

Research Assistant since October 2006
Otto-von-Guericke-Universität Magdeburg, Department of Computer Science

- Research and Teaching
- Teaching Exercises in “Computational Intelligence”
- Successful funding applications (DAAD, BT, etc.) and project partnerships
- Personal research success in data mining
- Numerous publications, workshop and conference talks
- Student supervision and trainee visits
- Reviews for IEEE and Wiley journals, as well as for numerous data mining and data analysis conferences

Guest PhD student 08/2010–10/2010
Norges Teknisk-Naturvitenskapelige Universitet (NTNU), Trondheim, Norway

Trainee 10/2005–03/2006
BT (British Telecom), Ipswich, England

- Work at BT’s “Intelligent Systems Research Centre”
- Own research in intelligent systems and data mining

- Intelligent Data Analysis using Association Rule Mining
- Software programming in Java

Student visit

10/2004–04/2005

University of Melbourne, Australia

- Interdisciplinary research work
- Own research work in computational intelligence
- Data visualization

Supervision of PC equipment

2002–2006

Schmidt & Naujoks GbR, mvdrei GmbH, Magdeburg

- PC administration
- Database maintenance
- Real estate management

**Student
Supervision**

Julia Preuße, ANALYSIS OF THE WEBUNI ONLINE STUDENT COMMUNITY, Diplomarbeit, Universität Magdeburg, 2010

Stephan Günther, PARALLELISIERUNG DES GSOM-ALGORITHMUS UNTER VERWENDUNG VON STM, Diplomarbeit, Universität Magdeburg, 2010

Stephan Kauschka, ANALYZING THE SIMILARITY OF ASSOCIATION RULES OVER TIME, Studienarbeit, BT, 2009

Hinrich Harms, CUSTOMER VALUE ESTIMATION CONSIDERING SOCIAL NETWORK RELATIONSHIPS, Studienarbeit, BT, 2009

Stephan Günther, SEMI-SUPERVISED LEARNING USING SVMs AND GSOM, Studienarbeit, University of Melbourne, 2009

Julia Preuße, DETERMINATION OF PARAMETER SETTING OF ACS FOR THE TSP, Studienarbeit, University of Melbourne, 2009

Marcus Leich, COMPARISON OF WORD SENSE DISAMBIGUATION METHODS, Studienarbeit, University of Melbourne, 2008

Torsten Sommerfeld, USING FUZZY LOGIC AND FUZZY OPTIMIZATION IN RTBI, Diplomarbeit, BT, 2008

Marian Panten, TECHNIKEN UND METHODEN ZUR VISUALISIERUNG DREIDIMENSIONALER SKALAR DATEN, Studienarbeit, University of Melbourne, 2007

Presentations

Relevance Feedback for Association Rules using Fuzzy Score Aggregation, NAFIPS 2007, San Diego, USA, June 2007

Modern Data Visualization for Air Traffic Management, NAFIPS 2007, San Diego, USA, June 2007

Relevance Feedback for Association Rules by Leveraging Concepts from Information Retrieval, SGAI AI'07, Cambridge, England, December 2007

Optimizing Wheat Yield Prediction Using Different Topologies of Neural Networks, IPMU'08, Málaga, Spanien, July 2008

Data Mining with Neural Networks for Wheat Yield Prediction, ICDM'08, Leipzig, Germany, July 2008

Estimation of Neural Network Parameters for Wheat Yield Prediction, IFIP AI'08, Mailand, Italien, September 2008

Visualization of Agriculture Data Using Self-Organizing Maps, SGAI AI'08, Cambridge, England, December 2008

Towards Classification of Soil Heterogeneity Indicators, GFKL/IFCS'09, Dresden, Germany, March 2009
Visual Data Mining of Agriculture Data, MLDM'09, Leipzig, Germany, July 2009
Data Mining of Agricultural Yield Data: A Comparison of Regression Models, ICDM'09, Leipzig, Germany, July 2009
Data Mining in Agriculture, AUSTRALIAN TAXATION OFFICE, Canberra, Australia, December 2009
Feature Selection for Wheat Yield Prediction, SGAI AI'09, Cambridge, England, December 2009
Data Mining in der Landwirtschaft, OTTO-VON-GUERICKE-UNIVERSITÄT, Magdeburg, Germany, January 2010
Spatial Data Mining in Precision Agriculture, UNIVERSITY OF WATERLOO, Kanada, May 2010
Spatial Variable Importance Assessment for Yield Prediction in Precision Agriculture, IDA'2010, Oracle, Arizona, May 2010
Data Mining in Precision Agriculture: Management of Spatial Information, IPMU'2010, Dortmund, Germany, June 2010
Regression Models for Spatial Data: An Example from Precision Agriculture, ICDM'2010, Berlin, Germany, July 2010
Hierarchical Spatial Clustering for Management Zone Delineation in Precision Agriculture, DMA'2010, Berlin, Germany, July 2010
A Clustering Approach for Management Zone Delineation in Precision Agriculture, ICPA'2010, Denver, Colorado, July 2010
Spatial Data Mining in Precision Agriculture, NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET (NTNU), Trondheim, Norway, August 2010
Spatial Data Mining in Precision Agriculture, MARTIN-LUTHER-UNIVERSITÄT HALLE-WITTENBERG, Halle/Saale, Germany, March 2011
Machine Learning Methods for Spatial Clustering: An Example from Precision Agriculture, SCAI'2011, Trondheim, Norway, May 2011

Abilities

Programming: R, Matlab, C, Java
Text processing: gnuplot, L^AT_EX, T_EX, Office
Operating Systems: Linux, Windows, Solaris
Languages: German, English, Norwegian, French (basic), Spanish (basic), Russian (basic)

Hobbies

Photography: analogue/color slides, Canon AE-1, Canon T-70
Violoncello: orchestra and private string quartet experience
Cycling, Geocaching