wwu.usp

Workshop on Information Systems

EUROPEAN RESEARCH CENTER FOR INFORMATION SYSTEMS

Münster, 29th January – 2nd February of 2018

Participants

ERCIS/WWU - European Research Center for Information Systems

Prof. Dr.-Ing. Bernd Hellingrath

Bernd Hellingrath is coordinator of the wwu.usp Workshop on Information Systems and Professor for Information Systems and Supply Chain Management (since 2008) and the head of the Brazil Center at the University of Münster (WWU). Prior to this position, he was department manager at the Fraunhofer Institute for Material Flow and Logistics in Dortmund and professor for Planning and Modeling of Production and Logistics Networks at the University of Paderborn. He is a director of the European Research Center for Information Systems (ERCIS) and academic director of the ERCIS Competence Center for Crisis Management. From 2010 to 2011 Prof. Hellingrath led the working groups on "processes" and "information and technology" in BVL International's Humanitarian Logistics Council, and led the Council from 2012 to 2013. Prof. Hellingrath has been involved in previous European research programs both as a contributor and as a reviewer. His current research interests lie on Collaborative Supply Chain Management (SCM), Local Concepts for Planning and Controlling in SCM Industry 4.0, Supply Chain Flexibility, Maintenance Planning, Sales and Operations Planning and Humanitarian Logistics.

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Prof. Dr. Dr. h.c. Dr. h.c. Jörg Becker

Prof. Dr. Dr. h.c. Dr. h.c. Jörg Becker is Managing Director of the Institute for Information Systems at the University of Münster and Academic Director of the European Research Center for Information Systems (ERCIS). He is Professor of Information Systems and directs the Chair for Information Systems and Information Management. Moreover, he holds an honorary professorship at the National Research University – Higher School of Economics (NRU-HSE) in Moscow. Since 2007, he is member of the North Rhine-Westphalian Academy of Sciences, Humanities and the Arts. He served as Vice-Rector for Strategic Planning and Quality Assurance of the University Münster (2008-2016). In 2015, he became a member of the Platform "Digital Administration and Public IT" of the National German IT Summit. Since 2016, he is Spokesman of the WWU Center for Europe. Additionally, he is editor of various journals, i.e. Information Systems and e-Business Management (ISeB, editor-in-chief), Business and Information Systems Engineering (BISE, department-editor), and Information & Management (I&M, editorial board). He has published in further renowned outlets, including MIS Quarterly (MISQ), European Journal of Information Systems (EJIS), Information Systems Frontiers (ISF), Information Systems Journal (ISJ), and Business Process Management Journal (BPMJ). Furthermore, he has authored and edited numerous books, including Retail Information Systems, Process Management, Modernizing Processes in Public Administrations, and Reference Modeling.

His research fields comprise Information Management, Information Modelling, Retail Information Systems, e-Government, Management Information Systems (Business Intelligence).

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Prof. Dr. Stefan Klein

Dr. Stefan Klein is Professor for Interorganizational Systems at the University of Münster, Münster, Germany, where he was Dean of the School of Management and Economics and currently is Director for International Accreditation. He is the academic coordinator of the International Graduate Research School on Networks, Information Technology and Innovation Management (NITIM). Previously he held teaching or research positions at University College Dublin, Ireland; University of Linz, Austria; University of Koblenz-Landau, Germany, University St. Gallen, Switzerland; Harvard University; the German Research Center for Computer Science (GMD); and University of Cologne. His current research areas are Information Infrastructures, Network Economy, Information Management, Social Media and the transformation of work. He studies practices of technology use and organizational transformation from a group to an industry level. He has published widely and is a member of the editorial board of several international IS journals.

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Prof. Dr. Herbert Kuchen

Hebert Kuchen is Professor for Practical Computer Science (since 1997) and a director of the European Research Center for Information Systems (since 2004). He obtained his Diploma and Doctoral (Dr.rer.nat) degrees, as well as the Habilitation in Computer Science at the RWTH Aachen University. His main research focuses lie on Model-driven Software Development, Parallel Programming, Testing, Functional Logic Programming, and E-assessment.

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Prof. Dr. Stephan Meisel

Stephan Meisel is an Assistant Professor for quantitative methods for logistics in the Department of Information Systems of the School of Business and Economics at the University of Münster, Germany. He holds a Ph.D. in Operations Research from the University of Braunschweig, Germany, and he was a postdoctoral research associate in the Department of Operations Research and Financial Engineering at Princeton University. His main research interests lie in decision support, optimization and, in particular, sequential decision making under uncertainty with applications in logistics and energy systems.

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Prof. Dr. Heike Trautmann

Heike Trautmann is Professor of Information Systems and Statistics at the University of Münster. She graduated in Statistics and, after working in a consulting company for two years, she joined the Graduate School of Production Engineering and Logistics at TU Dortmund University and received her PhD in 2004. After her habilitation in 2014 she became a Professor for Statistics within the Department of Information Systems at the University of Muenster and a director of the ERCIS network. In 2017 she was Pascal professor at LIACS, University of Leiden, The Netherlands. Currently, she is vice-dean for internationalization at the Münster School of Business and Economics. Her current research activities are focused on data science / big data, social media analytics, multiobjective (evolutionary) optimisation - in particular preference incorporation, performance assessment and stopping criteria - as well as algorithm selection and benchmarking concepts. She is Associate Editor of the Evolutionary Computation Journal and was involved in organizing specific conferences and workshops, e.g. the EMO 2017 conference in Münster. She has various industry collaborations, such as the ERCIS Omni-Channel Lab powered by arvato and active research projects with researchers in the Netherlands, Brazil, Australia, Canada and Mexico.

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Prof. Dr. Gottfried Vossen

Gottfried Vossen is a Professor of Computer Science in the Department of Information Systems at the University of Muenster in Germany. He is a Fellow of the German Computer Science Society and an Honorary Professor at the University of Waikato Management School in Hamilton, New Zealand. He is the European Co-Editor-in-Chief of Elsevier's Information Systems - An International Journal, and a Director of the European Research Center for Information Systems (ERCIS) in Muenster. He received his master's and Ph.D. degrees as well as the German Habilitation in 1981, 1986, and 1990, resp., all from the Technical University of Aachen in Germany. Dr. Vossen is an author or co-author of more than 250 publications, which have reached an i10-index of 114 on Google Scholar and an h-index of 42. He is also an author, co-author, or co-editor of more than 25 books (not counting new editions or translations) on databases, business process modeling, the Web, e-commerce, cloud computing, and computer architecture, some of which have been translated into foreign languages. The most popular of these books to date is Transactional Information Systems: Theory, Algorithms, and the Practice of Concurrency Control and Recovery (with Gerhard Weikum), which has reached around 800 citations on Google Scholar. His research interests include conceptual as well as application-oriented challenges concerning databases, information systems, modern business process modelling, digitization, digital business models, cloud computing, and big data. His research group at Münster currently works on pricing, data profiling, architecture development for big data analytics, the introduction of gamification into business process modelling, and big data exploitation in customer journey applications.

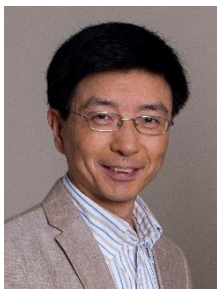**Email**: vossen@uni-muenster.de | **Website:** http://erc.is/p/gv

Dr. Armin Stein

Dr. Armin Stein is Managing Director of the European Research Center for Information Systems (ERCIS), connecting currently more than 25 IS research institutions throughout Europe and beyond (http://www.ercis.org). He studied Information Systems at WWU, from which he gained his Dr. rer. pol. in 2010. Armin works on different aspects of conceptual modelling, mostly related to reference information models such as the Supply Chain Operations Reference Model, as well as on the more technical aspects of Business Process Implementation. Another stream of interest is dealing with the gender gap in IS. In this context, Armin gained experience in working with text-mining techniques. He is responsible for the IS introductory course on an undergraduate level and teaches Workflow Management on a graduate level. Furthermore, he supervises teams of students during international and project seminars.

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PRIA/WWU – Pattern Recognition and Image Analysis

Prof. Dr. Xiaoyi Jiang

Xiaoyi Jiang received the graduate degree in computer science at Peking University, Beijing, China, and the Ph.D. degree and Venia Docendi (Habilitation) degree in computer science from the University of Bern, Switzerland. He was an Associate Professor at the Technical University of Berlin, Germany. Since 2002, he has been a Full Professor at the University of Münster, Germany. Currently, he is the dean of the Faculty of Mathematics and Computer Science. Dr. Jiang is a Fellow of IAPR. He is currently the Editor-in-Chief of the International Journal of Pattern Recognition and Artificial Intelligence. In addition, he also serves on the Advisory Board and Editorial Board of several journals, including the IEEE Transactions on Medical Imaging and the International Journal of Neural Systems, Pattern Analysis and Applications, and Pattern Recognition. His research interests include computer vision, pattern recognition, machine learning.

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EACH/USP - School of Arts, Sciences and Humanities

Prof. Dr. Marcelo Fantinato

Marcelo Fantinato is coordinator of the wwu.usp Workshop on Information Systems and an associate professor in the School of Arts, Sciences and Humanities at the University of São Paulo (USP), Brazil since 2008. He has worked in industry as a software testing specialist at the CPqD Foundation, Brazil (2001 - 2006) and as a specialist in research and development at Motorola, Brazil (2006 - 2008). Currently, he is the head of the Master of Science Graduate Program in Information Systems at USP. He has a Green Belt

certification with the Motorola Six Sigma program for process improvement. He was the general chair of two large Brazilian conferences: 2nd Brazilian Conference on Software: Theory and Practice (CBSoft 2011) and the 8th Brazilian Symposium of Information Systems (SBSI 2012). He was also the program chair and co-chair of some Brazilian and international workshops. He acts as associate editor of the International Journal of Cooperative Information Systems since 2014. His main research interests are related to business process management, process mining, service-oriented computing, project management and software engineering.

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Prof. Dr. Marcos Loderllo Chaim

Marcos Lordello Chaim obtained BSc (1987), MSc (1991) and PhD (2001) degrees in Electrical Engineering from the State University of Campinas, Campinas, Brazil. From 1990 to 1992, he was assistant professor at São Paulo State University (UNESP), São José do Rio Preto, Brazil. After leaving UNESP, he worked at Embrapa Information Technology where he developed software for the agribusiness domain until 2005. Since then, he is a faculty member of the School of Arts, Sciences and Humanities (EACH), University of São Paulo (USP), São Paulo, Brazil. His research interests are related to how software artifacts should be analyzed to support software development tasks such as testing, debugging, and maintenance. Program analysis techniques (e.g., compiling techniques, program instrumentation) are the basis for the automatic perusal of software artifacts (e.g., source and object code; analysis and design diagrams) to identify testing requirements, fault-prone locations or bad smells in code. Invariably, these techniques are only useful if supported by tools. Thus, one product of the research are tools to support testing, debugging, and maintenance based on program analysis techniques. Our research group has developed tools to support data-flow testing, program debugging, and clone detection. However, novel techniques and tools should be assessed regarding their effectiveness and efficiency. Thus, another product of the research are techniques and experiments to evaluate program analysis tools. We have developed simulation tools and experiments to assess in practice the usefulness of program analysis techniques and tools.

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Prof. Dr. Serajane Marques Peres

Sarajane Marques Peres is an Associate Professor at the University of Sao Paulo, Brazil. Ph.D. in Electric Engineering (2006) at the University of Campinas; Master of Manufacturing Engineering (1999) at the Federal University of Santa Catarina; Bachelor in Computer Science (1996) at the State University of Maringá, Brazil. She worked as assistant professor at the State University of Western Paraná (1998-2005) and at State University of Maringá (2005-2007), Brazil. She co-wrote a Data Mining textbook, published in Portuguese. Currently, she is the tutor of the PET Information Systems USP group, under the Tutorial Education Program of the Ministry of Education, Brazil, and member of coordination committee of the Information System Master Program, at USP. Her main research interests are

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ICMC/USP - Institute of Mathematics and Computer Sciences

Prof. Dr. João Luis Garcia Rosa

João Luís Garcia Rosa is an associate professor of computer science at the Department of Computer Science, University of São Paulo (USP) - Institute of Mathematics and Computer Sciences (ICMC) - Sao Carlos, where he teaches undergraduate and graduate disciplines such as Brain-Computer Interfaces, Neural Networks, Artificial Intelligence, Theory of Computation and Formal Languages. He was a visiting researcher at Computational Neurodynamics Laboratory (CNL), Center for Large Scale Integrated Optimization & Networks (CLION), FedEx Institute of Technology, at the University of Memphis, Memphis, TN, USA, in 2013. His project, supervised by Robert Kozma, was "Brain Computational Models Based on Neurodynamical Populations at Mesoscopic Level". He is a full master and doctoral advisor at the Graduate Program in Computer Science and Computational Mathematics at ICMC-USP. He is with the Bio-inspired Computing Laboratory (BioCom). He has experience in computer science, with emphasis on artificial Intelligence, brain-computer interfaces, computational neurodynamics, and biologically plausible neural networks. He presented two-hour tutorials in IJCNN 2005 ("Biologically Plausible Artificial Neural Networks"), in IJCNN 2015 ("Noninvasive Electroencephalogram-based Brain-Computer Interfaces"), and in IJCNN 2017 ("Event-Related Potentials: Cognition in Brain-Computer Interfaces"). Prof. Rosa has advised several students (MS and DSc levels). He is assessor of two Brazilian research-funding agencies (FAPESP and CAPES) and he worked as peer reviewer for international projects. He has been a program committee member of many conferences and reviewer of many periodicals and conference proceedings. He has published two books, edited one book, published chapters and several papers in journals and peer reviewed proceedings. He has been an IEEE Senior Member since 2015.

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Prof. Dr. Odemir Martinez Bruno

Odemir M. Bruno is an associate professor at the Sao Carlos Institute of Physics at the University of Sao Paulo in Brazil. He received his B.Sc. in Computer Science (1992), his M.Sc. in Applied Physics (1995), his Ph.D. in Computational Physics (2000) and his habilitation in Computer Science (2006). He is the header and founder of the Scientific Computing Group (http://scg.ifsc.usp.br). He is PhD supervisor at the Physics Institute of S. Carlos, University of S. Paulo, Institute of Computer Science and Mathematics at the University of S. Paulo and at the Applied Mathematics Department at the University of Gent (Belgium). He supervised more than 30 researchers, including PhDs, Masters and Post-Doctorates. He has published more than 100 articles in peer reviewed journals and in the areas of Computer Science, Mathematics, Physics and Biology. He is co-author of two books (Optical and Physiology

of Vision: a multidisciplinary approach (Portuguese only) and Internet programming with PHP (Portuguese only)), 10 book chapters, an inventor of six patents and author (co-author) of 110 informatics articles in the biggest Brazilian newspaper – Folha de São Paulo (Caderno de Informática). He is the coordinator of two international collaboration agreements (USP and Gent University, Belgium/USP and Birmingham University, UK). He was recently invited as visitor professor at the University of Auvergne (2016) and at the University of Orleans (2017). His fields of interest include Data Science, Big Data, Artificial Intelligence, Pattern Recognition, Non-linear Science, Chaos, Fractals, Discrete Dynamical Systems, Network Science and Bioinformatics.

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Renata Pontin M. Fortes is currently Associate Professor in the Computer Science Department of the Institute of Mathematics and Computer Science, at the University of São Paulo, Brazil. She holds a PhD in Computational Physics from USP in 1996. Her research interests lie on Software Process and Human-Computer Interaction applied to the web systems and multi devices domain. She is part of two Laboratories at USP: Intermídia, where she mainly researches about accessibility and interfaces design methods, and LABES, where she mainly researches about methods and models applied to the web software processes domain. She has been PC or senior PC member for a number of events (W4A, ACM SIGDOC, DSAI, CLIHC etc.) and reviewer of some prestigious journals. She is a member of the ACM and of the Brazilian Computer Society.

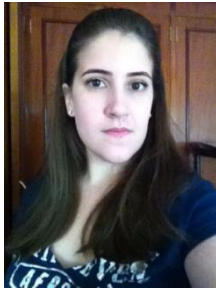**Email**: renata@icmc.usp.br | **Website:** https://goo.gl/qAs66J

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Sidgley Camargo de Andrade is PhD Student at the Institute of Mathematics and Computer Sciences of University of São Paulo, Brazil. As background, he has a Bachelor's degree and a Master's degree in Computer Science. Since 2013, he is lecturer (tenured) at the Federal University of Technology - Paraná, Brazil, from which he is currently on leave to pursue his PhD research. His research work is focusing on the study of spatio-temporal relations between social media and physical sensors for rainfall and flood monitoring. He have also an experience in IT industry, working as programmer and system analyst. His research interests include Spatio-Temporal Analysis and Data Mining applied in Geoinformatics.

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Lívia Castro Degrossi is a PhD Candidate at the Institute of Mathematics and Computer Science at the University of Sao Paulo. She holds a Bachelor's Degree in Computer Science from the State University of Sao Paulo and a Master's Degree in Computer Science from the University of Sao Paulo. She has experience in Project Management, focusing on PMBoK, and Collaborative Systems for Flood Management. Currently, she has been doing research on quality of Volunteered Geographic Information (VGI) for Flood Management.

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M.Sc. Lucas Correia Ribas

Lucas Correia Ribas made the B.Sc in Information Systems at the Federal University of Mato Grosso do Sul (2014) and M.Sc. in Computer Science and Computational Mathematics (2017) at the Institute of Mathematics and Computer Science (ICMC) of the University of Sao Paulo (USP) in Sao Carlos. Since May 2017, he is a PhD student in Computer Science and Computational Mathematics at the ICMC/USP. His fields of interest include Pattern Recognition, Complex Networks, Neural Networks, Data Science, Biological Images Analysis, Computer Vision and Texture Analysis.

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M.Sc. Gabriel Spadon de Souza

Gabriel Spadon is a PhD student in Computer Science in the Computer Science and Mathematics Institute at the University of Sao Paulo (USP) since 2017. From 2015 to 2017 he did his MSc in the same institution, researching about mobility patterns and collective behavior in georeferenced graphs by means of analytical processing of complex networks. In 2011, he majored in Computer Science at Sao Paulo State University (UNESP), where he developed studies in parallel processing and data engineering tools. At the moment, he is a researcher in the Database and Image Group (GBdI) at USP. His research interests are broad and cover a lot of inter-disciplinary areas. Since last year, he has been developing research in urban system analytics using digital maps and complex networks. He has also developed research on real-world systems modeling, data-driven decision making, and pattern recognition.

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M.Sc. Jefferson Tales Oliva

Jefferson Tales Oliva is a PhD student of Computer Science and Computational Math in the University of São Paulo, São Carlos. He earned MSc degree in Engineering of Energetic and Dynamical Systems and BSc in Computer Science from State University of West Paraná (UNIOESTE), Foz do Iguaçu, Paraná, Brazil. He is a collaborator at the Laboratory of Bioinformatics, too UNIOESTE. Also, he is a visitor researcher in the Neurology Department of Massachusetts General Hospital (MGH), Harvard Medical School, Boston, MA, USA. His research interest includes image analysis, time series mining, data mining, neuroscience, biologically plausible artificial neural networks, dementias, epilepsy, text mining and machine learning with applications to bioinformatics.

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CIM/WARWICK – Center for Interdisciplinary Methodologies

Prof. Dr. João Porto de Albuquerque

Dr João Porto de Albuquerque is Associate Professor and Impact Director at the Centre for Interdisciplinary Methodologies and Co-Director of the Warwick Institute for the Science of Cities, where he also directs the MSc in Urban Informatics and Analytics. Dr Porto de Albuquerque has an interdisciplinary background in computational, social and geographical sciences. He is a sociotechnical researcher in the emerging interdisciplinary field of Geospatial Analytics and active in the international scientific communities of Geographic Information Science and Information Systems Management. He is an Alumnus Fellow of the Alexander von Humboldt Foundation (2006-2008). From 2013-2015 he spent a research stay at the Institute of Geography of Heidelberg University, Germany, from which he currently holds a Visiting Professor appointment. Previously, he worked at the School of Arts, Sciences and Humanities of the University of São Paulo (2008-2010) and at the Department of Computer Systems of the Institute of Mathematical and Computing Sciences of the University of São Paulo (2010-2015), Brazil, with which he still maintains an honorary affiliation. He is currently President of the Special Interest Group on Organisation Research of the Association for Information Systems (SIGOSRA-AIS) and has completed several research projects in the UK, Brazil and Germany with funding from agencies such as NIHR, EPSRC, DFG, LUBW, FAPESP, CAPES.

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	Sun. (28.01)	Mon. (29.01)	Tue. (30.01)	Wed. (31.01)	Thu. (01.02)	Fri. (02.02)
Morning		Get to know the Univeristy of Münster	**08:30 –** Opening Session (WWU, IS, ERCIS, Funding) **10:30 -** Coffee-break **10:45 –** Presentations of Professors	Presentations of PhD Students	Scheduled Bilateral-Discussions	Social Event (optional)
Afternoon	Social Event (optional)		**11:45 -** Lunchtime Seminar **13:15 –** Presentations of Professors **14:45 -** Coffe-break **15:00 –** Presentation of Professors **16:30 -** Coffee-break **17:00 -** Incorporation of USP into ERCIS **18:00 -** Wrap-up of the day; Following-up activities		Scheduled Bilateral-Discussions Scheduled Bilateral-Discussions **15:00 -** Collection of Results; Presentations of Collaboration Ideas **16:30 -** Wrap-up of the Workshop	
Evening	Reception / Welcome Dinner (gasthaus leve)		**20:00 -** Dinner with Brazilian professors and ERCIS directors			

Legend:
- Activities focused on the Brazilian participants (others can also join)
- Activities focused on PhD Students (others can also join)
- Activities involving Brazilian and German professors
- Opening / Wrap-up sessions
- Social Events (optional)