



Dr. André Calero Valdez

Junior Research Group Leader, AkadOR

*Data Science, Human-Computer Interaction, Information
Visualization, Recommender Systems, Industry 4.0, Machine
Learning, Social Networks, Technology Acceptance*

Personal Information

Date of Birth 22nd January 1981
Marital Status Married
Children 1 Daughter (1 year old)
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Scholarly Metrics

Citations 738
h-index 15
i10-index 23
Acquired 3rd party approx. €1.3 Mio
Funding

Work Experience

2018–Present **Head of Consortium SmartIdentifikation**, RWTH Aachen University, Germany.

- Collaborative Project: Germany/Austria
- Role: Project Lead. Team: 1 PhD students, 2 student assistants

2018–Present **Junior Research Group Leader**, RWTH Aachen University, Germany.

- Junior research group Digitale Mündigkeit
- Role: Project Lead. Team: 3 PhD students, 2 student assistants

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- 2016 **Guest Researcher**, *Prof. Katrien Verbert*, KU Leuven, Belgium.
 ○ HCI in Recommendation Systems
- 2016–Present **Post-Doc/Senior Researcher**, *Prof. Martina Ziefle*, Chair for Communication Science, RWTH Aachen University.
 ○ Permanent contract. Akademischer Oberrat.
- 2014–2016 **Post-Doc/Senior Researcher**, *Prof. Martina Ziefle*, Human-Computer Interaction Center, RWTH Aachen University.
 ○ DFG-Project: EXC-128 - Integrative Production Technology for High Wage Countries
- 2014–Present **Visiting Professor**, *Prof. Andreas Holzinger*, Institut for medical informatics, statistics and documentation at the Medical University Graz, Austria.
 ○ HCI in Knowledge Discovery and Machine Learning
- 2011–2014 **Research Assistant**, *Prof. Martina Ziefle*, Human-Computer Interaction Center, RWTH Aachen University.
 ○ DFG-Project: EXC-128
 ○ BMBF-Project: iNec 01HH11045 - Innovation by Way of Experts Communities during Demographic Change
- 2009–2011 **Research Assistant**, *Prof. Martina Ziefle*, Human-Technology Center (Hum-Tec), RWTH Aachen University.
 ○ BMBF-Project: Cairo
- 2007–2008 **Computer Scientist**, *Atos Worldline*, Aachen, Germany.
 ○ Establish code review guidelines for OWASP security
 ○ Explore platform options for payment-platform (Java EE)

Scientific Degrees

- 2007–2008 **PhD Psychology**, *Faculty of Philosophy*, RWTH Aachen University.
 ○ Topic: Technology Acceptance and Diabetes - User-centered design of small-screen devices for patients with diabetes
 ○ Grade: summa cum laude (with highest honor)

Education

- 2001–2007 **Course of Study: Computer Science Diplom**, *Faculty of Mathematics, Computer Science, and Natural Sciences*, RWTH Aachen University, Germany.
 ○ Major: Software-Construction
 ○ Minor: Psychology
 ○ Topic of Thesis: Design of a Benchmark and a tool for measuring performance of database access layers
 ○ Grade: very good

Teaching Experience

- 2017 **Agent-Based Modelling (seminar)**, *once*, M.A. Digital Media Communication.
 ○ In this seminar students learnt to programm social simulations in Netlogo and should address complex systems research questions in the context of social media.
 ○ This course was discontinued as many students struggled with the programming language. Students really liked the course, but found it too demanding.

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- 2016–Present **Methods of technical communication (research plenary)**, *every semester*, B.Sc. Technikkommunikation.
- In this course students conduct research in small groups and write short scientific articles. The topic changes every semester.
- 2016–Present **Visual Recommender Systems (proseminar)**, *every summer*, B.Sc. Computer Science.
- In this course students present the content of a scientific paper and write a short thesis about visual recommender systems.
- 2016–Present **Information Visualization and Language (seminar)**, *every summer*, M.A. Digital Media Communication.
- In this seminar students learn to program interactive information visualizations using open data sets or text-mining tools.
 - The programming language used in the beginning was the processing environment.
 - The course next summer will use R and GGPlot as a programming environment.
- 2015–Present **Advanced Empirical Methods for social scientists (lecture)**, *every winter*, M.A. Digital Media Communication.
- In this lecture students learn advanced methods of social empirical research (systematic literature review, formulating a research question, measurement theory, data collection, statistical evaluation, reporting).
 - Teaching assistant in 2015 and 2016. Held the lecture in 2017 and 2018.
 - Transitioned the course from using SPSS to R for statistical analyses in 2018.
 - This lecture is accompanied by a seminar, where students apply the theoretical knowledge on a real life scenario.
- 2015–Present **Application seminar (seminar)**, *every winter*, M.A. Digital Media Communication.
- Accompanying seminar to Advanced Empirical Methods for social scientist.
- 2014–Present **Interdisciplinary Publishing (graduate seminar)**, *every semester*, All PhD students at RWTH.
- In this seminar, aimed at doctoral students, participants learn about scientific publishing, scientific metrics, ethics in science and open access publishing.
- 2013–Present **Forms of representation in science (ring lecture)**, *every winter*, B.A. Linguistics and Communication Science.
- In this lecture students learn about the visual display of quantitative information and networked data.
- 2013–Present **Usability, User Diversity, Technology acceptance (seminar)**, *every winter*, M.A. Digital Media Communication, M.Sc. Technical Communication, M.Sc. Mobility and Logistics.
- In this seminar students try to answer a self-chosen research question.
 - Students in this course may pick their methods (qualitative, quantitative).
 - In 2018 half of the course chose social-media-mining methods to understand public discourse in media.
- 2012–Present **Bachelor colloquium (colloquium)**, *every winter + some summers when needed*, B.Sc. Technical communication.
- In this colloquium students learn the craft of scientific writing and how to structure a research report.

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- 2011–Present **Interaction and Communication between Humans and Technology (seminar)**, *once*, MA Linguistics and Communication Science.
- In this seminar students jointly conducted research about social media and usage motivation.
- 2011–Present **Research internship (internship)**, *held twice*, B.Sc. Technical communication.
- In this full-time practice students had to develop their own small research question and collaborate with other participants to improve the effectiveness during a 4-week internship.
- 2009–2010 **Webtechnologies (colloquium)**, *once*, M.Sc. Computer Science.
- In this colloquium students learnt to program interactive websites using PHP and Java EE

Invited Guest Lectures

- 2018-11-29 **Trump, Brexit und die AfD. Verändert Facebook unsere Demokratie?**, *Rotary Aachen*, Aachen, Germany.
- 2018-11-17 **Trump, Brexit und die AfD. Verändert Facebook unsere Demokratie?**, *VVdst*, Aachen, Germany.
- 2016-05-24 **Connecting Data with Humans**, KU Leuven, Belgium.
- 2016-05-20 **Empirische Kommunikationswissenschaften**, *Bundesfachschaftstagung der Kommunikationswissenschaften*, RWTH Aachen University, Germany.

Grants, Awards and Honors

- 2018 Grant: E-Learning Project: ShinyStats, Funding volume 5,000.- Euro. RWTH Digitization Fund
- 2018 Grant: SmartIdentifikation, Total funding volume 950,000.- Euro, Own share: 302,767.- Euro. BMBF
- 2018 Best Poster Award: Political Opinions of Us and Them and the Influence of Digital Media Usage. EuroCSS 2013 Conference
- 2017 Grant: Junior Research Group: Digitale Mündigkeit, Funding volume 949,500.- Euro. NRW
- 2017 Grant: Getting around in Cyberspace. Together with Prof. Martina Ziefle, Prof. Leif Kobbelt, Funding volume (own share) 65,000.- Euro. RWTH-Aachen Profile Area for Information and Communication Technology
- 2014 Award: Borchers-Insignia of the proRWTH e.v. for an outstanding doctoral dissertation RWTH Aachen University Doctoral Scholarship. RWTH Aachen University
- 2013 Best Paper Award: The Impact of User Diversity on the Willingness to Disclose Personal Information in Social Network Services. SoutCHI 2013 Conference

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- 2013 Best Presentation Award: Personality Influences on Etiquette Requirements for Social Media in the Work Context. SoutCHI 2013 Conference
- 2011 Best Paper Award: Openness to Accept Medical Technology - A Cultural View. USAB 2011 Conferences
- 2009 Grant: RWTH Aachen University Doctoral Scholarship for Students with excellent degrees. RWTH Aachen University

Presentations

Talks

- Oct 2018 **Requirements for Reproducibility of Geo-Spatial Visualizations (invited panel talk)**, *IEEE VIS, Beliv Workshop*, Berlin, Germany.
- Jul 2018 **Human-Factors in the Age of Algorithms**, *Human-Computer Interaction International*, Las Vegas, USA.
- Jul 2018 **Believability of Fake News**, *Triennial Congress of the international ergonomics association (IEA)*, Florence, Italy.
- Mar 2018 **Acceptance of a paper-based digital diabetes diary**, *ICT4AWE Conference*, Madeira, Portugal.
- Mar 2018 **E-Coaching for the elderly – Recommender Systems in Health (invited panel talk)**, *ICT4AWE Conference*, Madeira, Portugal.
- Jul 2017 **Measuring Insight Into Multi-Dimensional Data from a Combination of a Scatterplot Matrix and a Hyperslice Visualization**, *Human-Computer Interaction International 2017*, Vancouver, Canada.
- Jul 2017 **Industrie 4.0 and an Aging Workforce – A Discussion from a Psychological and a Managerial Perspective**, *Human-Computer Interaction International 2017*, Vancouver, Canada.
- Oct 2016 **HCI for Recommender Systems, the Past, the Present and the Future**, *ACM RecSys 2016*, MIT, Boston, USA.
- Sep 2016 **Human Factors in Information Visualization and Decision Support Systems**, *Mensch und Computer 2016*, RWTH Aachen University, Germany.
- Jul 2016 **Visualizing Opportunities of Collaboration in Large Research Organizations**, *Human-Computer Interaction International 2016*, Toronto, Canada.

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- Jul 2016 **Using Liferay as an Interdisciplinary Scientific Collaboration Portal**, *Human-Computer Interaction International 2016*, Toronto, Canada.
- Jul 2016 **Strategic Knowledge Management for Interdisciplinary Teams. Overcoming Barriers of Interdisciplinary Work via an Online Portal Approach**, *Human-Computer Interaction International 2016*, Toronto, Canada.
- Jan 2016 **Preparing Production Systems for the Internet of Things**, *International Conference on Competitive Manufacturing (COMA)*, Stellenbosch, South Africa.
- Aug 2015 **Reducing Complexity with Simplicity**, *International Ergonomics Association Triennial Summit*, Melbourne, Australia.
- Jul 2015 **What should I read next?**, *Human-Computer Interaction International Conference*, Los Angeles, USA.
- Jul 2015 **What do my colleagues know?**, *Human-Computer Interaction International Conference*, Los Angeles, USA.
- Jul 2015 **Older users rejection of mobile health apps**, *Human-Computer Interaction International Conference*, Los Angeles, USA.
- Jul 2015 **On the visual design of enterprise resource systems**, *Applied Human Factors and Ergonomics 2015*, Las Vegas, USA.
- Jul 2015 **Orchestrating collaboration - Visual collaboration suggestions in large research clusters**, *Applied Human Factors and Ergonomics 2015*, Las Vegas, USA.
- Jul 2015 **User-centered design of business communities. The influence of user diversity on motivation to use**, *Applied Human Factors and Ergonomics 2015*, Las Vegas, USA.
- Jul 2014 **Reasons for using social networks professionally**, *Human Computer Interaction International 2014*, Crete, Greece.
- Jul 2014 **Enhancing interdisciplinary collaboration in large research clusters**, *Human Computer Interaction International 2014*, Crete, Greece.
- Oct 2013 **Scientific Cooperation Engineering**, *10th International Conference on Webometrics, Informetrics, and Scientometrics*, Illmenau, Germany.

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- Sep 2013 **Graph entropy measures in publication network data**, *CD-ARES 2013*, Regensburg, Germany.
- Jun 2013 **Information disclosure in social networks**, *SouthChi-Conference 2013*, Maribor, Slovenia.
 ○ Best presentation award
- Jun 2013 **Netiquette for the work environment**, *SouthChi-Conference 2013*, Maribor, Slovenia.
- Feb 2012 **Social Networking Sites in the work environment**, *International Ergonomics Association Triennial Summit*, Recife, Brazil.
- Jul 2010 **Mental Models of Menu Structures in Diabetes Assistants**, *12th ICCHP-International Conference on Computers helping people with special needs*, Vienna, Austria.
- Jun 2010 **Task-Performance in mobile and ambient interfaces for an electronic diabetes assistant**, *iSociety 2010*, London, United Kingdom.
- Jul 2009 **Effects of Aging and Domain Knowledge on Usability in a Diabetes Small Screen Device**, *USAB 2009*, Linz, Austria.

Service

Memberships

Member of Gesellschaft für Informatik (GI)

Member of Association for Computing Machinery (ACM)

Member of Technical Committee: Work with Computer Systems (WWCS) of the International Ergonomics Association (IEA)

Member Technical Committee: Visual Ergonomics of the International Ergonomics Association (IEA)

Member of the Expert-Network: Human-Computer Interaction in Knowledge Discovery and Data-Mining (HCI-KDD)

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Manuscript Reviews

- Adhoc reviews Computers in Human Behavior, Interacting With Computers, International Journal of Human-Computer Studies, ACM SIGCHI, ACM MobileHCI, ACM TVX, IEEE Transactions on Visualization and Computer Graphics, IEEE Transactions on Knowledge and Data Engineering, BMC Medical Informatics and Decision Making, PlosOne, Political Psychology, International Journal of Health Policy, MDPI Journal Mathematics, MDPI Journal Entropy, MDPI Informatics, Journal Online Information Review, Journal Convergence, Pervasive Health Conference, Mensch und Computer Conference, Human-Computer Interaction International Conference, USAB Conference, South-Chi Conference
- Editorial-Board or Program Committee DHM Conference, USAB Conference, HCI-KDD Workshops, EnChiRes Workshops at ACM EICS, CD-MAKE Conference at ARES, HFIDSS-Workshops, HealthRecSys Workshops at ACM RecSys, BELIV Workshops at IEEE VIS, UMAP Conference
- Head of Program Committee Human Factors in Information Visualization (HFIDSS), Workshops at the Mensch und Computer and HCI International Conferences

Academic Services

- 2017–Present **Teaching-Coordinator**, *Course of Study: Digital Media Communication (M.A.)*, Institute for Linguistics and Communication Science, RWTH Aachen University.
- Responsible for managing online catalogues, tracking of teaching duties, Exam management, Student troubleshooting
- 2016–Present **Coordinator International Office**, *Institute for Linguistics and Communication Science*, RWTH Aachen University.
- Responsible for Erasmus+ exchange students and staff mobility
 - Coordination of all other international student activities
- 2016 **Committee work**, *Professorship Computational methods in Social Sciences (W3)*, Faculty of Philosophy, RWTH Aachen University.
- Elected committee member
- 2016 **Committee work**, *Professorship Philosophy of Science (W3)*, Faculty of Philosophy, RWTH Aachen University.
- Elected deputy committee member
- 2017 **Committee work**, *Professorship Auditive Cognition (W2)*, Faculty of Philosophy, RWTH Aachen University.
- Elected committee member
- 2016 **Accreditation work**, *Course of Study: Digital Media Communication (M.A.)*, Institute for Linguistics and communication science, RWTH Aachen University.
- Responsible for the preparation of the module manual and the study plan.
- 2018 **Advisory**, *BMBF/VDI/VDE Innovation + Technik GmbH*, Stuttgart.
- Invited Talk: Future Topics in HCI Research
 - Advisory for future BMBF programme concepts
- 2018 **Advisory**, *BMBF/Deutsches Zentrum für Luft und Raumfahrt (DLR) e.V.*, Bonn.
- Advisory for 9th Framework EU programme concepts

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Bibliography

Articles published by outlets with scientific quality assurance, book publications, and works accepted for publication but not yet published.

Citations are retrieved from Google Scholar on 7th January 2019.

1. **André Calero Valdez**, M Ziefle (2019). The users' perspective on the privacy-utility trade-offs in health recommender systems. In: *International Journal of Human-Computer Studies*, 121, 108-121 (cited 6 times)
2. Philipp Brauner, **André Calero Valdez**, Ralf Philipsen, Martina Ziefle (2019). What Happens when Decision Support Systems Fail? – The Importance of Usability on Performance in Erroneous System. In: *Behavior and Information Technology* (**accepted**)
3. Luisa Sophie Vervier, **André Calero Valdez**, Martina Ziefle (2019). Attitude- mHealth Apps and Users' Insights - An empirical approach to understanding the antecedents of attitudes towards mhealth applications.. In: *ICT4AWE - 5th International Conference on Information and Communication Technologies for Ageing Well and e-Health*. (**submitted**)
4. Luisa Sophie Vervier, **André Calero Valdez**, Martina Ziefle (2019). In clarity we trust! - an empirical study of factors that affect the credibility of health-related information on websites.. In: *Springer CCIS* (**under revision**)
5. **André Calero Valdez**, Martina Ziefle (2019). Predicting Acceptance of Novel Technology from Social Network Data - An Agent-based Simulation-Approach. In: *7th International Conference on Competitive Manufacturing (COMA 2019)*. Stellenbosch, South Africa. (**accepted**)
6. **André Calero Valdez**, M Ziefle, M Sedlmair (2018). Priming and anchoring effects in visualization. In: *IEEE Transactions on Visualization & Computer Graphics*, 584-594 (cited 7 times)
7. **André Calero Valdez**, J Brell, AK Schaar, M Ziefle (2018). The diversity of why: a meta-analytical study of usage motivation in enterprise social networks. In: *Universal Access in the Information Society*, 17 (3), 549-566 (cited 3 times)
8. P Schmitz, J Hildebrandt, **André Calero Valdez**, L Kobbelt, M Ziefle (2018). You spin my head right round: Threshold of limited immersion for rotation gains in redirected walking. In: *IEEE transactions on visualization and computer graphics*, 24 (4), 1623-1632 (cited 3 times)
9. L Burbach, J Nakayama, N Plettenberg, M Ziefle, **André Calero Valdez** (2018). User preferences in recommendation algorithms: the influence of user diversity, trust, and product category on privacy perceptions in recommender algorithms. In: *Proceedings of the, 12th ACM Conference on Recommender Systems*, 306-310 (cited 1 times)
10. M Ziefle, **André Calero Valdez** (2018). Decisions About Medical Data Disclosure in the Internet: An Age Perspective. In: *International Conference on Human Aspects of IT for the Aged Population*, 186-201 (cited 1 times)
11. J Nakayama, N Plettenberg, L Burbach, **André Calero Valdez** (2018). Similarity of Search Results in the Datenspende BTW17 Dataset-CSS Data Challenge 2018. In: *EuroCSS*, 2018 2
12. **André Calero Valdez**, M Ziefle (2018). Believability of News. In: *Congress of the International Ergonomics Association*, 469-477
13. P Brauner, R Philipsen, **André Calero Valdez**, M Ziefle (2018). Human Interaction Under Risk in Cyber-Physical Production Systems. In: *Congress of the International Ergonomics Association*, 421-430
14. R Philipsen, P Brauner, **André Calero Valdez**, M Ziefle (2018). Evaluating Strategies to Restore Trust in Decision Support Systems in Cross-Company Cooperation. In: *International Conference on Applied Human Factors and Ergonomics*, 115-126
15. **André Calero Valdez**, M Ziefle (2018). Human Factors in the Age of Algorithms. Understanding

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- the Human-in-the-loop Using Agent-Based Modeling. In: *International Conference on Social Computing and Social Media*, 357-371
16. **André Calero Valdez**, L Burbach, M Ziefle (2018). Political Opinions of Us and Them and the Influence of Digital Media Usage. In: *International Conference on Social Computing and Social Media*, 189-202
 17. J Hildebrandt, P Schmitz, **André Calero Valdez**, L Kobbelt, M Ziefle (2018). Get Well Soon! Human Factors' Influence on Cybersickness after Redirected Walking Exposure in Virtual Reality. In: *International Conference on Virtual, Augmented and Mixed Reality*, 82-101
 18. **André Calero Valdez**, J Kluge, M Ziefle (2018). Elitism, trust, opinion leadership and politics in social protests in Germany. In: *Energy Research & Social Science*
 19. L Vervier, **André Calero Valdez**, M Ziefle (2018). "Should I Trust or Should I Go?" or What Makes Health-Related Websites Appear Trustworthy?-An Empirical Approach of Perceived Credibility of Digital Health Information and the Influence of User Diversity. In: *ICT, T4AWE*, 169-177
 20. **André Calero Valdez**, AK Schaar, JR Hildebrandt, M Ziefle (2018). Requirements for Reproducibility of Research in Situational and Spatio-Temporal Visualization. In: *BELIV Workshop at VIS*, S2018
 21. **André Calero Valdez**, M Ziefle, M Sedlmair (2018). Studying Biases in Visualization Research: Framework and Methods. In: *Cognitive Biases in Visualizations*, 13-27
 22. **André Calero Valdez**, M Ziefle (2018). Acceptance of a Digital Paper-based Diabetes Diary. , 4th International Conference on Information and Communication Technologies
 23. H Schäfer, S Hors-Fraile, RP Karumur, **André Calero Valdez**, A Said, et al. (2017). Towards health (aware) recommender systems. In: *Proceedings of the, 2017 international conference on digital health*, 157-161 (cited 19 times)
 24. P Brauner, **André Calero Valdez**, R Philipsen, M Ziefle (2017). How Correct and Defect Decision Support Systems Influence Trust, Compliance, and Performance in Supply Chain and Quality Management. In: *International Conference on HCI in Business, Government, and Organizations* (cited 5 times)
 25. **André Calero Valdez**, M Ziefle, M Sedlmair (2017). A Framework for Studying Biases in Visualization Research. In: *DECISIVE*, 2017 2 (cited 5 times)
 26. D Elsweiler, S Hors-Fraile, B Ludwig, A Said, H Schäfer, C Trattner, et al. (2017). Second workshop on health recommender systems:(healthrecsys 2017). In: *Proceedings of the Eleventh ACM Conference on Recommender Systems*, 374-375 (cited 2 times)
 27. P Brauner, R Philipsen, **André Calero Valdez**, M Ziefle (2017). The Interaction of Causal Attribution of Performance and Compliance with Decision Support Systems in Cyber-Physical Production Systems-An Empirical Study Using a Business In: *International Conference on Applied Human Factors and Ergonomics*, 11-23 (cited 2 times)
 28. M Schinner, **André Calero Valdez**, E Noll, AK Schaar, P Letmathe, M Ziefle (2017). 'Industrie 4.0'and an Aging Workforce—A Discussion from a Psychological and a Managerial Perspective. In: *International Conference on Human Aspects of IT for the Aged Population*, 537-556 (cited 2 times)
 29. M Ziefle, **André Calero Valdez** (2017). Domestic Robots for Homecare: A Technology Acceptance Perspective. In: *International Conference on Human Aspects of IT for the Aged Population*, 57-74 (cited 2 times)
 30. T Thiele, **André Calero Valdez**, S Stiehm, A Richert, M Ziefle, S Jeschke (2017). Augmenting research cooperation in production engineering with data analytics. In: *Production Engineering*, 11 (2), 213-220 (cited 2 times)

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31. M Bukowski, **André Calero Valdez**, M Ziefle, T Schmitz-Rode, R Farkas (2017). Hybrid collaboration recommendation from bibliometric data. In: *Second International Workshop on Health Recommender Systems*, 36
32. **André Calero Valdez**, S Gebhardt, TW Kuhlen, M Ziefle (2017). Measuring Insight into Multi-dimensional Data from a Combination of a Scatterplot Matrix and a HyperSlice Visualization. In: *International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management*
33. C Mendez, V Lukarov, C Greven, **André Calero Valdez**, F Dietze, U Schroeder, et al. (2017). User Groups and Different Levels of Control in Recommender Systems. In: *International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management*
34. F Dietze, **André Calero Valdez**, J Karoff, C Greven, U Schroeder, M Ziefle (2017). That's so Meta! Usability of a Hypergraph-Based Discussion Model. In: *International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management*
35. S Jeschke, W Bleck, A Richert, G Schuh, W Schulz, M Ziefle, A Bräkling, et al. (2017). Scientific Cooperation Engineering. In: *Integrative Production Technology*, 993-1046
36. **André Calero Valdez**, M Ziefle, K Verbert, A Felfernig, A Holzinger (2016). Recommender systems for health informatics: state-of-the-art and future perspectives. In: *Machine Learning for Health Informatics*, 391-414 (cited 27 times)
37. **André Calero Valdez**, M Ziefle, K Verbert (2016). HCI for recommender systems: the past, the present and the future. In: *Proceedings of the, 10th ACM Conference on Recommender Systems*, 123-126 (cited 13 times)
38. J Brell, **André Calero Valdez**, AK Schaar, M Ziefle (2016). Gender differences in usage motivation for social networks at work. In: *International Conference on Learning and Collaboration Technologies*, 663-674 (cited 10 times)
39. T Vaegs, **André Calero Valdez**, AK Schaar, A Breakling, S Aghassi, U Jansen, et al. (2016). Enhancing scientific cooperation of an interdisciplinary cluster of excellence via a scientific cooperation portal. In: *Automation, Communication and Cybernetics in Science and Engineering*, 2015 (cited 10 times)
40. **André Calero Valdez**, AK Schaar, J Bender, S Aghassi, G Schuh, M Ziefle (2016). Social media applications for knowledge exchange in organizations. In: *Innovations in Knowledge Management*, 147-176 (cited 9 times)
41. T Hamann, AK Schaar, **André Calero Valdez**, M Ziefle (2016). Strategic knowledge management for interdisciplinary teams-overcoming barriers of interdisciplinary work via an online portal approach. In: *International Conference on Human Interface and the Management of Information* (cited 8 times)
42. P Brauner, **André Calero Valdez**, R Philipsen, M Ziefle (2016). Defective still deflective—how correctness of decision support systems influences user's performance in production environments. In: *International Conference on HCI in Business, Government and Organizations*, 16-27 (cited 7 times)
43. A Holzinger, **André Calero Valdez**, M Ziefle (2016). Towards interactive recommender systems with the doctor-in-the-loop. In: *Mensch und Computer*, 2016–Workshopband (cited 7 times)
44. F Dietze, J Karoff, **André Calero Valdez**, M Ziefle, C Greven, U Schroeder (2016). An open-source object-graph-mapping framework for Neo4j and scala: renesca. In: *IFIP WG, 8.4, 8.9, TC 5 International Cross-Domain Conference, CD-ARES 2016* (cited 6 times)
45. **André Calero Valdez**, P Brauner, M Ziefle, TW Kuhlen, M Sedlmair (2016). Human factors in information visualization and decision support systems. In: *Mensch und Computer*, 2016–

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Workshopband (cited 6 times)

46. **André Calero Valdez**, M Dehmer, A Holzinger (2016). Application of graph entropy for knowledge discovery and data mining in bibliometric data. In: *Mathematical Foundations and Applications of Graph Entropy*, 6, 174 (cited 5 times)
47. P Brauner, **André Calero Valdez**, R Philipsen, M Ziefle (2016). On Studying Human Factors in Complex Cyber-Physical Systems. In: *Mensch und Computer*, 2016–Workshopband (cited 4 times)
48. G Schuh, A Bräkling, **André Calero Valdez**, AK Schaar, M Ziefle (2016). Using Liferay as an Interdisciplinary Scientific Collaboration Portal. In: *Social Computing and Social Media*., 8th International Conference, SCSM 2016 (cited 3 times)
49. MA Yazdi, **André Calero Valdez**, L Lichtschlag, M Ziefle, J Borchers (2016). Visualizing opportunities of collaboration in large research organizations. In: *International Conference on HCI in Business, Government, and Organizations* (cited 2 times)
50. **André Calero Valdez**, P Brauner, M Ziefle (2016). Preparing Production Systems for the Internet of Things The Potential of Socio-Technical Approaches in Dealing with Complexity. In: *Competitive Manufacturing (COMA)* (cited 2 times)
51. T Thiele, S Schröder, **André Calero Valdez**, C Jooß, A Richert, M Ziefle, et al. (2016). Unterstützung interdisziplinärer integration am Beispiel einer Exzellenzcluster-Community. In: *Automation, Communication and Cybernetics in Science and Engineering*, 2015 (cited 1 times)
52. S Abels, C Greven, **André Calero Valdez**, U Schroeder, M Ziefle (2016). Graph Complexity in visual recommender systems for scientific literature. In: *Mensch und Computer*, 2016–Workshopband (cited 1 times)
53. L Platte, S Freitag, L Schubert, J Molis, **André Calero Valdez**, M Ziefle (2016). Trustworthiness of visualizations of mobility-induced CO2 emissions. In: *Mensch und Computer*, 2016–Workshopband
54. **André Calero Valdez**, P Brauner, AK Schaar, A Holzinger, M Ziefle (2015). Reducing complexity with simplicity-usability methods for industry 4.0. In: *Proceedings*, 19th Triennial Congress of the IEA 9, 14 (cited 31 times)
55. S Bruns, **André Calero Valdez**, C Greven, M Ziefle, U Schroeder (2015). What should i read next? a personalized visual publication recommender system. In: *International Conference on Human Interface and the Management of Information* (cited 13 times)
56. **André Calero Valdez**, D Özdemir, MA Yazdi, AK Schaar, M Ziefle (2015). Orchestrating collaboration-using visual collaboration suggestion for steering of research clusters. In: *Procedia Manufacturing*, 3, 363-370 (cited 6 times)
57. **André Calero Valdez**, S Bruns, C Greven, U Schroeder, M Ziefle (2015). What do my colleagues know? dealing with cognitive complexity in organizations through visualizations. In: *Learning and Collaboration Technologies*, 449-459 (cited 6 times)
58. AK Schaar, **André Calero Valdez**, M Ziefle (2015). User-centered design of business communities. The influence of diversity factors on motives to use communities in professional settings. In: *Procedia Manufacturing*, 3, 645-652 (cited 5 times)
59. **André Calero Valdez**, M Ziefle (2015). Older Users' Rejection of Mobile Health Apps a Case for a Stand-Alone Device?. In: *International Conference on Human Aspects of IT for the Aged Population*, 38-49 (cited 2 times)
60. AK Schaar, **André Calero Valdez**, M Ziefle (2015). Nutzungsmotivation von sozialen Netzwerken im Arbeitskontext. In: *Exploring Demographics*, 657-666 (cited 2 times)
61. J Bender, **André Calero Valdez**, J Hofmann, M Kerger, AK Oprée, AK Schaar, et al. (2015). Das Projekt iNec. In: *Zukunft gestalten: Soziale Technologien in Organisationen in Zeiten des*

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62. AK Löcker, D Eraßme, EM Jakobs, AK Schaar, **André Calero Valdez**, M Ziefle (2014). Yet another platform? Motivational factors for using online communities in business contexts. In: *Advances in the Ergonomics in Manufacturing: Managing the enterprise of the Future* (cited 16 times)
63. C Jooß, F Welter, I Leisten, A Richert, AK Schaar, **André Calero Valdez**, EM Nick, et al. (2014). Scientific cooperation engineering in the cluster of excellence integrative production technology for high-wage countries at RWTH Aachen University. In: *Automation, Communication and Cybernetics in Science and Engineering*, 2013 (cited 12 times)
64. AK Schaar, **André Calero Valdez**, M Ziefle, D Eraßme, AK Löcker, EM Jakobs (2014). Reasons for using social networks professionally. In: *International Conference on Social Computing and Social Media*, 385-396 (cited 11 times)
65. **André Calero Valdez**, AK Schaar, M Ziefle, A Holzinger (2014). Enhancing interdisciplinary cooperation by social platforms. In: *International Conference on Human Interface and the Management of Information* (cited 10 times)
66. A Holzinger, M Schwarz, B Ofner, F Jeanquartier, **André Calero Valdez**, et al. (2014). Towards interactive visualization of longitudinal data to support knowledge discovery on multi-touch tablet computers. In: *International Conference on Availability, Reliability, and Security*, 124-137 (cited 3 times)
67. **André Calero Valdez**, AK Schaar, T Vaegs, T Thiele, T Kowalski, S Aghassi, et al. (2014). Scientific Cooperation Engineering Making Interdisciplinary Knowledge Available within Research Facilities and to External Stakeholders. In: *Proceedings of the 10th International Conference on Webometrics* (cited 3 times)
68. A Holzinger, B Sommerauer, P Spitzer, S Juric, B Zalik, M Debevc, et al. (2014). Mobile computing is not always advantageous: lessons learned from a real-world case study in a hospital. In: *International Conference on Availability, Reliability, and Security*, 110-123 (cited 2 times)
69. **André Calero Valdez** (2014). Technology acceptance and diabetes : User centered design of small screen devices for diabetes patients. In: *Apprimus Verlag, Aachen*
70. P Brauner, **André Calero Valdez**, U Schroeder, M Ziefle (2013). Increase physical fitness and create health awareness through exergames and gamification. In: *Human factors in computing and informatics*, 349-362 (cited 54 times)
71. A Holzinger, B Ofner, C Stocker, **André Calero Valdez**, AK Schaar, M Ziefle, et al. (2013). On graph entropy measures for knowledge discovery from publication network data. In: *International Conference on Availability, Reliability, and Security*, 354-362 (cited 38 times)
72. AK Schaar, **André Calero Valdez**, M Ziefle (2013). The impact of user diversity on the willingness to disclose personal information in social network services. In: *Human factors in computing and informatics*, 174-193 (cited 23 times)
73. **André Calero Valdez**, AK Schaar, M Ziefle (2013). Personality influences on etiquette requirements for social media in the work context. In: *Human factors in computing and informatics*, 427-446 (cited 16 times)
74. G Schuh, S Aghassi, **André Calero Valdez** (2013). Supporting technology transfer via web-based platforms. In: *Technology Management in the IT-Driven Services (PICMET)*, 2013 Proceedings (cited 13 times)
75. AK Schaar, **André Calero Valdez**, M Ziefle (2013). Publication network visualization as an approach for interdisciplinary innovation management. In: *Professional Communication Conference (IPCC)*, 2013 IEEE International, 1-8 (cited 9 times)

76. AP Schmitz-Urban, J Bender, G Gudergan, AK Schaar, **André Calero Valdez**, et al. (2013). Einsatz von Experten-Communitys zur Sicherung der Innovationsfähigkeit im demografischen Wandel. In: *Innovationsfähigkeit im demografischen Wandel : Beiträge der Forschungspartner* (cited 7 times)
77. **André Calero Valdez**, AK Schaar, M Ziefle (2013). Measuring Interdisciplinary Performance By Analyzing Mixed Node Publication Networks. In: *Translational twists and turns: Science as a socio-economic endeavor* (cited 1 times)
78. AK Schaar, **André Calero Valdez**, D Eraßme, AK Löcker, J Hofmann, et al. (2013). Wo ist all das Wissen hin? : Förderung der Kommunikation zwischen den Generationen in Unternehmen zur Wissenssicherung. In: *Zeitschrift für innovative Arbeitsgestaltung und Prävention*, 3 (1), 22-23
79. **André Calero Valdez**, AK Schaar, M Ziefle, A Holzinger, S Jeschke, C Brecher (2012). Using mixed node publication network graphs for analyzing success in interdisciplinary teams. In: *International Conference on Active Media Technology*, 606-617 (cited 38 times)
80. **André Calero Valdez**, AK Schaar, M Ziefle (2012). State of the (net) work address Developing criteria for applying social networking to the work environment. In: *Work*, 41 (Supplement 1), 3459-3467 (cited 20 times)
81. AK Schaar, **André Calero Valdez**, M Ziefle (2012). Social media for the ehealth context. A requirement assessment. In: *Advances in Human Aspects of Healthcare*, 79 (cited 9 times)
82. F Alagöz, M Ziefle, W Wilkowska, **André Calero Valdez** (2011). Openness to accept medical technology-a cultural view. In: *Symposium of the Austrian HCI and Usability Engineering Group*, 151-170 (cited 29 times)
83. A Holzinger, S Dorner, M Födinger, **André Calero Valdez**, M Ziefle (2010). Chances of increasing youth health awareness through mobile wellness applications. In: *Symposium of the Austrian HCI and Usability Engineering Group*, 71-81 (cited 62 times)
84. F Alagöz, **André Calero Valdez**, W Wilkowska, M Ziefle, S Dorner, A Holzinger (2010). From cloud computing to mobile Internet, from user focus to culture and hedonism: the crucible of mobile health care and wellness applications. In: *Pervasive Computing and Applications (ICPCA)*, 2010 5th International (cited 58 times)
85. **André Calero Valdez**, M Ziefle, F Alagöz, A Holzinger (2010). Mental models of menu structures in diabetes assistants. In: *Computers Helping People with Special Needs*, 584-591 (cited 26 times)
86. **André Calero Valdez**, M Ziefle, A Horstmann, D Herding, U Schroeder (2010). Task performance in mobile and ambient interfaces. Does size matter for usability of electronic diabetes assistants?. In: *Information Society (i-Society)*, 2010 International Conference on, 514-521 (cited 9 times)
87. A Holzinger, S Dorner, M Födinger, M Ziefle, **André Calero Valdez** (2010). Motivational features of a mobile web application promoting a healthy lifestyle.. , 24th BCS Conference on Human Computer Interaction (cited 1 times)
88. **André Calero Valdez**, M Ziefle, A Horstmann, D Herding, U Schröder (2010). Mobile devices used for medical applications: Insights won from a usability study with diabetes patients. In: *International Journal for Digital Society (IJDS)*, 1 (4), 298-307
89. **André Calero Valdez**, M Ziefle, A Horstmann, D Herding, U Schroeder (2009). Effects of aging and domain knowledge on usability in small screen devices for diabetes patients. In: *HCI and Usability for e-Inclusion*, 366-386 (cited 22 times)