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EDUCATION

2008-2011: University of Münster, Münster, Germany

- Ph.D., Geoinformatics, received 22nd December 2011 “summa cum laude”
- Ph.D. Thesis: “Grounding geographic information in perceptual operations”¹
- Advisor: *Prof. Dr. Werner Kuhn*², Institute for Geoinformatics, Münster

2002-2006: Fraunhofer IAIS, Sankt Augustin, Germany

- On-the-job training in programming, database and data mining technology
- On-the-job training in a qualification program for future leaders (“Führungsnachwuchsqualifikationsprogramm”)

1996-2002: University of Trier, Trier, Germany

- Diploma, Applied Physical Geography, with a focus on quantitative methods (statistics), August 2002.
- Communication Science (additional studies) and Political Science
- Thesis: “Medienrealität - Wissenschaftsrealität. Qualität kommunikativer Kooperation am Beispiel der Hochwasserereignisse der Region Trier 1993 bis 1995” (a study on public communication during flooding hazards)

RESEARCH INTERESTS

Semantic technology for geospatial information. Semantic engineering for data-intensive science and eScience; Semantics in spatio-temporal data modelling and analysis; Semantic Web technology and linked spatio-temporal data; Geographic ontology engineering; Transportation and navigation networks; Knowledge extraction; Spatial data mining; Spatial databases and linked data;

Place reference systems, space conceptualization and measurement of activities in space and time. Theories of actions, affordances and the perceived environment; Reference systems for space and time; Place reference systems; Models of navigation and spatial cognition; Operational and embodied semantics; The role of perception in the construction of concepts; Semantics of sensors and measurement; Attention based semantics; Geometry and philosophy of place, space and time and symbol grounding;

¹<http://geographicknowledge.de/pdf/MyThesis.pdf>

²<http://ifgi.uni-muenster.de/~kuhn/>

Reasoning and algorithms for spatio-temporal information. Efficient algorithms for geospatial concept construction and extraction; Formal specifications of geospatial knowledge concepts; Logics for the geospatial Semantic Web; Constructivist approaches to logic, knowledge and learning;

RESEARCH CAREER

Universiteit Utrecht, Human Geography and Spatial Planning, Utrecht, NL

- From January 2016: *Assistant professor* in geographic information science and urban geography³. I focus on novel GIS-based methods for geographic analysis, in particular human activity and place modeling, semantic enrichment and geographic analysis support systems.

ETH Zürich, Institut für Kartographie und Geoinformation (IKG), Zürich, Switzerland

- August 2014 - December 2015: *post-doc* at the , Geoinformations-Engineering⁴, Prof. Martin Raubal. One focus of the institute is on information technology for mobility.
- Advisor in the project *GoEco!*⁵ for developing mobile technology for sustainable energy-saving mobility behavior.
- Co-developer of a model of wayfinding behavior of the GeoGaze Lab⁶.

University of Münster, Institute for Geoinformatics, Münster, Germany

- January 2013 - July 2014: *post-doc* in the project “Linked Data for eScience Services” (LIFE)⁷, a project on developing Semantic Web tools for improving access to linked spatio-temporal data in the context of LODUM, the University of Münster’s Open Data initiative. It includes data from the Münster library (ULB), the hbz⁸, and eHumantities (e.g., the Münster Institute for Comparative Urban History⁹). One outcome is e.g. a spatio-temporal linked data client¹⁰.
- November 2012 - December 2013: *post-doc* in the “International Research Training Group on Semantic Interoperability” (IRTG), a joint PhD programme between the University of Bremen, University of Buffalo, and the University of Münster, with focus on semantic technology. My task was to supervise doctoral students in the programme.

University of California Santa Barbara, Department of Geography, Santa Barbara, USA

- January - August 2012: *post-doc fellow* in my own research project “Place reference systems” (with Prof. Krzysztof Janowicz), a research fellowship grant by the DFG (SCHE 1796/1-1).

University of Münster, Institute for Geoinformatics, Münster, Germany

- 2008-2011: *PhD student* at the Münster Semantic Interoperability Lab (MUSIL¹¹), Institute for Geoinformatics.
- 2010-2011: Research project: “ENVIRONMENTAL Services Infrastructure with ONTOLOGIES” (ENVISION¹²). This EU IP-project was concerned with facilitating environmental model interoperability using semantic technology, ontology engineering and service descriptions.

³<http://www.uu.nl/en/research/human-geography-and-spatial-planning>

⁴<http://www.ikg.ethz.ch/geoinfo>

⁵<http://www.nfp71.ch/E/projects/module3/Pages/project-rudel.aspx>

⁶<http://www.geogaze.org/>

⁷<http://lodum.de/>

⁸<http://www.hbz-nrw.de/>

⁹<http://www.uni-muenster.de/Staedtegeschichte/>

¹⁰<http://www.geographicknowledge.de/spex/>

¹¹<http://musil.uni-muenster.de/>

¹²<http://www.envision-project.eu/>

- 2008-2010: Research project (project manager): “Semantic Reference Systems for Geospatial Information” (SeReS II¹³). In this project, I developed one major line of research, namely a perceptual grounding approach for describing the semantics of data.

Fraunhofer Institute for Intelligent Analysis and Information Systems IAIS, Sankt Agustin, Germany

- September 2002-August 2008: *Research associate* at the (former) department *knowledge discovery*¹⁴.
- I was involved in 6 research projects (in 4 as project manager) concerned with spatial data mining, statistical analysis, and modeling of spatial databases, in particular mobility data. These included, among others:
 - The “traffic frequency atlas”¹⁵, a germanwide atlas of traffic frequencies for road and pedestrian traffic and public transport, based on a nearest neighbour classifier (FAW); My role was to coordinate database and software development (yearly updates) in close contact with the customer.
 - Estimation of spatial land value trends for a german insurance company (Allianz AG); My role was project coordinator.
 - Geographic address data fusion (Deutsche Post); My role was project coordinator and surveying of database and software development.
 - Statistical retail sales prediction (Rewe Austria AG); My role was project coordinator in close contact with the customer as well as supervision of database development.
 - I was involved in the development of the geo-visualization and analysis tool *CommonGIS*¹⁶;
- I used methods of artificial intelligence and machine learning (Weka, subgroup miner) and formal representation languages (FOL, HOL), and I mainly programmed (Java, PL-SQL, R) spatial databases (Oracle Spatial, Postgres), as well as GIS and Geovisualization software (Map Info, CommonGIS). During my 6 years, I developed geodata and service solutions based on Oracle database technology.

TEACHING EXPERIENCE

Duties included preparing seminar contents and introductory and intermediate lectures, grading abstracts and term papers, giving lectures, and leading class discussions.

- *Lecture with labs (graduate)*, “GIS III” (*Web GIS and Linked Geodata*), ETH Zürich, Fall 2015
- *Lecture with labs (undergraduate)*, “Geodatenanalyse” (*spatial statistics, data mining and optimization*), ETH Zürich, Spring 2015
- *Lecture with labs (graduate)*, “GIS III” (*Web GIS and Linked Geodata*), ETH Zürich, Fall 2014
- *Lecture with labs (undergraduate)* 147833, “Reference Systems for Geographic Information”, University of Münster, Summer 2014
- *Seminar (graduate)* 146298, “Semantic Engineering”, University of Münster, Summer 2013/Winter 2013/14. My teaching was rated 5.8 on a scale from 1 (very poor) to 7 (very good)
- *Course (graduate)* 147537, “Readings in Semantic Interoperability”, University of Münster, 2012/13
- *Seminar* “The Machine that Would Predict the Future?” (*Geog 288HC*) (with Prof. Helen Couclelis), University of California Santa Barbara, Summer 2012, (“Semantics and Ontologies”)

¹³<http://seres.uni-muenster.de/seres2/>

¹⁴<http://www.iais.fraunhofer.de/4799.html?L=1>

¹⁵<https://www.faonline.de/inda/>

¹⁶<http://www.iais.fraunhofer.de/1863.html>

- *Seminar (graduate) 146353*¹⁷, “Logical foundations of geometry for geoinformation” (with Prof. Werner Kuhn), University of Münster, Summer 2011. My teaching was rated 2.3 on a scale from 1 (very good) to 5 (very poor).
- *Seminar (undergraduate) Spatial Data Mining*¹⁸ (with Prof. Stefan Wrobel), University of Bonn, Summer 2007
- *Tutorial Geovisualization with CommonGIS* (with Prof. Dr. apl. Klaus Zehner), University of Köln, Summer 2006
- *Seminar (undergraduate) Data Mining for Spatio-temporal data*¹⁹ (with Prof. Stefan Wrobel), University of Bonn, Summer 2003
- 2000-2002: *Tutor* at the University of Trier in Human and Physical Geography. Tutor in several statistics courses, social research and data analysis projects and project seminars.

SUPERVISION OF BACHELOR, MASTER AND DIPLOMA THESES

Dirk Hecker (Dipl, Fraunhofer IAIS), Daniel Schulz (Dipl, Fraunhofer IAIS), Roberto Rösler (Dipl, Fraunhofer IAIS), Jörg Possin (Dipl, University of Münster), Alber Sanchez (Ma, University of Münster), Jim Jones (Ma, University of Münster), Nemanja Kostic (Ma, University of Münster), Peter Zimmerhof (B, University of Münster), Friedrich Müller (Ma, University of Münster), Joscha Meisner (B, University of Münster), Tobias Lehmkuhl (B, University of Münster), Thanasis Mantzaras (Ma, ETH Zürich), Ariadni Gaki (Ma, ETH Zürich)

SCIENTIFIC ORGANIZATION

- *Co-Organizer* of the “CESIP 2015 - Cognitive engineering for spatial information processes: From user interfaces to model-driven design”, held in conjunction with COSIT 2015
- *Coordinator and Co-Organizer* of the *Dagstuhl Seminar* on “Spatial reference in the Semantic Web and in Robotics”, which was held from March 30 to April 04 2014, together with Prof. Luc Steels, Aldo Gangemi and Werner Kuhn
- *Co-Organizer* of the “Workshop on Computational Models of Place 2013 (CoMP 2013)”, to be held in conjunction with ACM GIS 2013
- *Co-Organizer* of the “GeoVOCampDayton2012”, a hands-on workshop for creating lightweight geo-vocabularies/ontologies for the Semantic Web
- *Editorial Board* of the “Semantic Web Journal” Special Issue on Linked Spatiotemporal Data and Geo-Ontologies
- *Co-Organizer* of the “GiBDA2012” Workshop on GIScience in the Big Data Age 2012 (in conjunction with GIScience 2012)
- *Editorial Board* of the “Semantic Web Journal” special issue on Linked Data for Science and Education

SCIENTIFIC SERVICE

- *Programme Committee* of the “20th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2016)”
- *Programme Committee* of the “9th International Conference on Geographic Information Science (GIScience 2016)”
- *Programme Committee* of the “9th International Conference on Formal Ontology in Information Systems (FOIS 2016)”
- *Programme Committee* of the “Second ACM SIGSPATIAL International Workshop on Privacy in Geographic Information Collection and Analysis (GeoPrivacy 2015)”
- *Programme Committee* of the “Second International ACM SIGMOD Workshop on Managing and Mining Enriched Geo-Spatial Data (GeoRich’15)”

¹⁷<https://ifgi.uni-muenster.de/ifgilogin/csa/?id=151>

¹⁸http://wob.iai.uni-bonn.de/Wob/de/view/class152_id3637.html

¹⁹http://wob.informatik.uni-bonn.de/Wob/de/view/class152_id1167.html

- *Programme Committee* of the “8th International Conference on Formal Ontology in Information Systems (FOIS 2014)”, a major conference on ontology engineering (September 2014)
- *Programme Committee* of the “19th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2014)” (November 2014)
- *Programme Committee* of the “Extended Semantic Web Conference (ESWC) 2014”, one of the major conferences of the Semantic Web (May 2014)”
- *Programme Committee* of the “Workshop on Geographic Information Observatories 2014
- *Programme Committee* of the “Extended Semantic Web Conference (ESWC) 2013”, (May 2013)
- *Invitation* to the ”Dagstuhl Seminar 12221:” “Cognitive Approaches for the Semantic Web” (held 28. May 2012 – 01. June 2012)
- *Programme Committee* of CONCEPTUAL SPACES AT WORK (May 2012) conference held at Lund University in May 2012
- *Programme Committee* of the ”K-PAR” International Workshop on Place-Related Knowledge Acquisition Research (in conjunction with Spatial Cognition 2012)
- *Scientific Committee* of the ”GI Zeitgeist 2012” Young researchers forum on Geographic Information Science
- *Invited talk* for the ”NeDIMAH:” “Space and Time in the Digital Humanities Workshop 2011”
- *Programme Committee* of the ”LISC2011” 1st International Workshop On Linked Science 2011 (in conjunction with ISWC 2011)
- *Programme Committee* of the ”LSTD10” Workshop On Linked Spatiotemporal Data 2010 (in conjunction with GIScience 2010)

HONOURS

- Best paper award, 17th AGILE Conference on Geographic Information Science 2014
- Poster Runner-Up award, ACM SIGSPATIAL GIS Poster Paper Awards 2008

Books.

- S. Scheider. *Grounding geographic information in perceptual operations*, volume 244 of *Frontiers in Artificial Intelligence and Applications*. IOS Press, Amsterdam, 2012

Bookchapters and editorials.

- S. Scheider and P. Kiefer. (Re-)Localization of Location-Based Games. In *Geogames and Geoplay. Game-based Approaches to the Analysis of Geo-Information*, Advances in Geographic Information Science. Springer, Heidelberg, 2016. (accepted, forthcoming)
- S. Scheider and W. Kuhn. How to talk to each other via computers. Semantic interoperability as conceptual imitation. In *Applications of Conceptual Spaces. The Case for Geometric Knowledge Representation*, number 359 in Synthese library, pages 97–122. Springer, Heidelberg, 2015
- S. Scheider and C. Stasch. The semantics of sensor observations based on attention. In *Attention and Meaning: The Attentional Basis of Meaning*, pages 319–344. Nova, 2015
- A. Gangemi, V. V. Hafner, W. Kuhn, S. Scheider, and L. Steels. Spatial reference in the Semantic Web and in Robotics (Dagstuhl Seminar 14142). *Dagstuhl Reports*, 4(3):181–201, 2014
- S. Scheider, B. Adams, K. Janowicz, M. Vasardani, and S. Winter, editors. *ACM SIG-SPATIAL International Workshop on Computational Models of Place, COMP 2013, November 5, 2013, Orlando, Florida, USA*. ACM, 2013
- K. Janowicz, S. Scheider, and B. Adams. A geo-semantics flyby. In S. Rudolph, G. Gottlob, I. Horrocks, and F. van Harmelen, editors, *Reasoning Web. Semantic Technologies for Intelligent Data Access*, pages 230–250. Springer, Berlin Heidelberg, 2013
- S. Scheider, C. Keßler, J. Ortmann, J. Devaraju, A. Trame, T. Kauppinen, and W. Kuhn. Semantic referencing of geosensor data and volunteered geographic information. In N. Ashish and A. Sheth, editors, *Geospatial Semantics and the Semantic Web. Foundations, Algorithms, and Applications*, volume 12 of *Semantic Web and Beyond*, pages 27–59. Springer, Berlin, 2011
- K. Janowicz and S. Scheider. Semantic reference systems. In B. Warf, editor, *Encyclopedia of Geography*. Sage Publications, Thousand Oaks, CA, 2010

Refereed journal articles.

- S. Scheider, B. Gräler, C. Stasch, and E. Pebesma. Modelling spatio-temporal information generation. *International Journal of Geographical Information Science*, 2016. (accepted, forthcoming)
- S. Scheider, A. Degbelo, R. Lemmens, C. van Elzakker, P. Zimmerhof, N. Kostic, J. Jones, and G. Banhatti. Exploratory querying of sparql endpoints in space and time. *Semantic Web Journal*, 2016. (accepted, forthcoming)
- P. Weiser, S. Scheider, D. Bucher, P. Kiefer, and M. Raubal. Towards sustainable mobility behavior: research challenges for location-aware information and communication technology. *GeoInformatica*, pages 1–27, 2016
- S. Scheider, A. Degbelo, W. Kuhn, and H. Przibytzin. Content and context description. How linked spatio-temporal data enables novel information services for libraries. *GIS.Science*, (04/2014):138 â 149, 2014
- S. Scheider and K. Janowicz. Place reference systems: A constructive activity model of reference to places. *Appl. Ontology*, 9(2):97–127, 2014
- C. Stasch, S. Scheider, E. Pebesma, and W. Kuhn. Meaningful spatial prediction and aggregation. *Environmental Modelling & Software*, 51(0):149 – 165, 2014
- K. Janowicz, S. Scheider, T. Pehle, and G. Hart. Geospatial semantics and linked spatiotemporal data - past, present, and future. *Semantic Web*, 3(4):321–332, 2012
- S. Scheider and J. Possin. Affordance-based individuation of junctions in open street map. *J. Spatial Information Science*, 4(1):31–56, 2012

- M. Treiblmayr, S. Scheider, A. Krüger, and M. von der Linden. Integrating GI with non-GI services. Showcasing interoperability in a heterogeneous service-oriented architecture. *GeoInformatica*, 16(1):207–220, 2012
- S. Scheider and W. Kuhn. Affordance-Based Categorization of Road Network Data Using a Grounded Theory of Channel Networks. *Int. J. Geogr. Inf. Sci.*, 24(8):1249 – 1267, 2010
- L. Sharma, S. Scheider, W. Klösgen, and O. Vyas. Efficient clustering technique for regionalisation of a spatial database. *International journal of business intelligence and data mining*, 3(1):66–81, 2008

Refereed conference articles.

- P. Kiefer, S. Scheider, I. Giannopoulos, and P. Weiser. A wayfinding grammar based on reference system transformations. In S. I. Fabrikant, M. Raubal, M. Bertolotto, C. Davies, S. Freundschuh, and S. Bell, editors, *Spatial Information Theory*, volume 9368 of *Lecture Notes in Computer Science*, pages 447–467. Springer International Publishing, 2015
- N. Kostic and S. Scheider. Automated generation of indoor accessibility information for mobility-impaired individuals. In F. Bação, M. Y. Santos, and M. Painho, editors, *AGILE 2015 - Geographic Information Science as an Enabler of Smarter Cities and Communities, Lisboa, Portugal, 9-12 June 2015*, Lecture Notes in Geoinformation and Cartography, pages 235–252. Springer, 2015
- S. Scheider, J. Jones, A. Sanchez, and C. Keßler. Encoding and querying historic map content. In J. Huerta, S. Schade, and C. Granell, editors, *Connecting a Digital Europe Through Location and Place*, Lecture Notes in Geoinformation and Cartography, pages 251–273. Springer International Publishing, 2014
- J. Jones, W. Kuhn, C. Keßler, and S. Scheider. Making the web of data available via web feature services. In J. Huerta, S. Schade, and C. Granell, editors, *Connecting a Digital Europe Through Location and Place*, Lecture Notes in Geoinformation and Cartography, pages 341–361. Springer International Publishing, 2014
- Y. Hu, K. Janowicz, D. Carral, S. Scheider, W. Kuhn, G. Berg-Cross, P. Hitzler, M. Dean, and D. Kolas. A geo-ontology design pattern for semantic trajectories. In T. Tenbrink, J. Stell, A. Galton, and Z. Wood, editors, *Spatial Information Theory*, volume 8116 of *Lecture Notes in Computer Science*, pages 438–456. Springer International Publishing, 2013
- D. Carral, S. Scheider, K. Janowicz, C. Vardeman, A. Krisnadhi, and P. Hitzler. An ontology design pattern for cartographic map scaling. In P. Cimiano, O. Corcho, V. Presutti, L. Hollink, and S. Rudolph, editors, *The Semantic Web: Semantics and Big Data*, volume 7882 of *Lecture Notes in Computer Science*, pages 76–93. Springer Berlin Heidelberg, 2013
- S. Scheider and W. Kuhn. Finite relativist geometry grounded in perceptual operations. In *Spatial information theory: 10th international conference, COSIT 2011*, LNCS 6899, pages 304–327. Springer, Berlin, 2011
- S. Scheider, F. Probst, and K. Janowicz. Constructing bodies and their qualities from observations. In *Formal Ontology in Information Systems. Proc. of the Sixth International Conference (FOIS 2010)*, pages 131–144. IOS Press, Amsterdam, 2010
- L. Sharma, O. Vyas, S. Scheider, and A. Akasapu. Nearest neighbour classification for trajectory data. In V. Das, editor, *Information and Communication Technologies - International Conference, ICT 2010, Kochi, Kerala, India, September 7-9, 2010. Proceedings*, volume 101 of *Communications in Computer and Information Science*, pages 180–185. Springer, 2010

- C. Körner, D. Hecker, M. Krause-Traudes, M. May, S. Scheider, D. Schulz, H. Stange, and S. Wrobel. Spatial data mining in practice: Principles and case studies. In *Proceedings of the 2010 conference on Data Mining for Business Applications*, pages 164–178, Amsterdam, The Netherlands, The Netherlands, 2010. IOS Press
- S. Scheider. The Case for Grounding Databases. In *GeoSpatial Semantics. Third International Conference, GeoS 2009, Mexico City, LNCS*, pages 44–62. Springer, Berlin, 2009
- S. Scheider, K. Janowicz, and W. Kuhn. Grounding Geographic Categories in the Meaningful Environment. In K. Hornsby, C. Claramunt, D. M., and G. Ligozat, editors, *Spatial Information Theory, 9th International Conference, COSIT 2009, Aber Wrac’h, France, September 21-25, 2009 Proceedings*, pages 69–87. Springer, Berlin, 2009
- S. Scheider and W. Kuhn. Road Networks and their Incomplete Representation by Network Data Models. In T. Cova, H. Miller, K. Beard, A. Frank, and M. Goodchild, editors, *Geographic information science: 5th international conference, GIScience 2008, Park City, UT, USA, September 23 - 26, 2008, Proceedings*, pages 290–307. Springer, Berlin, 2008
- M. Krause-Traudes, S. Scheider, S. Rüping, and H. Messner. Spatial data mining for retail sales forecasting. In L. Bernard, editor, *11th AGILE International Conference on Geographic Information Science 2008*
- R. Vyas, L. Sharma, O. Vyas, and S. Scheider. Associative Classifiers for Predictive Analytics: Comparative Performance Study. In *Proceedings of the 2008 Second UKSIM European Symposium on Computer Modeling and Simulation*, pages 289–294, Washington, DC, USA, 2008. IEEE Computer Society
- S. Scheider and D. Schulz. Specifying Essential Features of Street Networks. In S. Winter, M. Duckham, L. Kulik, and B. Kuipers, editors, *Spatial information theory: 8th international conference, COSIT 2007, Melbourne, Australia, September 19-23, 2007, Proceedings*, volume 4736/2007, pages 169–185. Springer, Berlin, 2007
- S. Scheider, A. Voss, and F. Perrefort. Patterns in spatial analysis - detection framework and examples. In M. Goodchild, editor, *GIS Planet 2005. Conference proceedings. May 30-June 2, Estoril, Portugal Lisboa: Instituto Geografico Portugues, 2005*, 2005
- A. Voß, V. H. Ernst, H. Voß, and S. Scheider. Interactive visual exploration of multidimensional data: Requirements for commongis with olap. In *DEXA Workshops*, pages 883–887. IEEE Computer Society, 2004
- W. Göhring, S. Roeder, V. Rudolph, S. Salz, A. Savinov, S. Scheider, and C. Hopmann. Knowledge discovery, thematic maps, and e-discussion as means for a sustainable decision making in developing countries. In *EnviroInfo 2004. Proceedings of the 18th International Conference on Informatics for Environmental Protection, October 21-23, 2004, CERN, Geneva*, pages 77–110, 2004

Refereed conference short papers and abstracts.

- S. Scheider, P. Kiefer, P. Weiser, M. Raubal, and C. Sailer. Score design for meaningful gamification. In *Online Proceedings of CHI 2015. Gamifying Research: Strategies, Opportunities, Challenges and Ethics*, Seoul, Korea, 2015
- P. Weiser and S. Scheider. A civilized cyberspace for geoprivacy. In *Proceedings of the 1st ACM SIGSPATIAL International Workshop on Privacy in Geographic Information Collection and Analysis, GeoPrivacy ’14*, pages 5:1–5:8, New York, NY, USA, 2014. ACM
- P. Weiser, S. Scheider, and D. Rudi. Countering cognitive biases in maps based on pragmatic communication. In *DECISIVE Workshop - Dealing with Cognitive Biases in Visualisations*, 2014
- C. Stasch, E. Pebesma, and S. Scheider. Annotating spatio-temporal datasets for meaningful analysis in the Web. In *EGU General Assembly Conference Abstracts*, volume 16 of *EGU General Assembly Conference Abstracts*, page 4948, May 2014

- S. Scheider and R. Purves. Semantic place localization from narratives. In *Proceedings of The First ACM SIGSPATIAL International Workshop on Computational Models of Place*, pages 16–19. ACM, 2013
- S. Scheider and K. Janowicz. Places as media of containment. In *Extended Abstracts Volume, GIScience 2010*. University Zürich-Irchel, Zürich, 2010
- S. Scheider, A. Devaraju, K. Janowicz, P. Maué, S. Schade, C. Keßler, J. Ortman, M. Bishr, T. Fincke, T. Weigel, and W. Kuhn. Grounding geographic information. In *12th AGILE International Conference on Geographic Information Science (2009)*. IKG, Leibnitz Universität, Hannover, 2009
- M. May, D. Hecker, C. Körner, S. Scheider, and D. Schulz. A vector-geometry based spatial knn-algorithm for traffic frequency predictions. In *ICDM Workshops*, pages 442–447. IEEE Computer Society, 2008
- M. May, S. Scheider, R. Rösler, D. Schulz, and D. Hecker. Pedestrian Flow Prediction in Extensive Road Networks Using Biased Observational Data. In W. Aref, M. Mokbel, and M. Schneider, editors, *GIS '08: Proceedings of the 16th ACM SIGSPATIAL international conference on Advances in geographic information systems*, pages 471–480. ACM, New York, 2008
- S. Scheider and M. May. A method for inductive estimation of public transport traffic using spatial network characteristics. In *Association of Geographic Information Laboratories in Europe -AGILE-: 10th AGILE International Conference on Geographic Information Science 2007*. Aalborg University, Aalborg, Denmark, 2007

Non refereed papers.

- S. Scheider. Treasure maps. Spatial reference systems for the common man. In A. Gangemi, V. V. Hafner, W. Kuhn, S. Scheider, and L. Steels, editors, *Spatial reference in the Semantic Web and in Robotics (Dagstuhl Seminar 14142)*. 2014
- S. Scheider, K. Janowicz, and B. Adams. The observational roots of reference of the semantic web. *CoRR*, abs/1206.6347, 2012

