

Geostatistics Community Publications

2014

Journal

Geostatistics

Stasch, C., Scheider, S., Pebesma, E. & W. Kuhn (2014): Meaningful Spatial Prediction and Aggregation. In: Environmental Modelling & Software, 51, pp.149-165, open access:
<http://www.sciencedirect.com/science/article/pii/S1364815213001977>).

Conferences and Workshops

Geoinformatik 2014

Henzen, C., Mäs, S., Müller, M., Bernard, L., Tressel, H. & S. Haase (2014): GeoMetaFacet 2.0 - Interaktive nutzerfreundliche Visualisierung von geographischen Metadaten. Geoinformatik 2014, March 26 - 28, 2014, Hamburg, Germany.

EGU General Assembly 2014

Lush, V., Nüst, D., Bastin, L., Masó, J. & J. Lumsden (2014): GEO Label Web Services for Dynamic and Effective Communication of Geospatial Metadata Quality. In: EGU General Assembly Conference Abstracts. Vol. 16. 2014, p. 14453.
<http://meetingorganizer.copernicus.org/EGU2014/EGU2014-14453.pdf>.

Masó, J., Nüst, D., Diaz, D., Closa, G., Lush, V., Zabala, A., & S. Nativi. (2014): Including data quality concepts into the GEOSS Portal. In: Poster Session ESSI2.12: Real Use of Standards and Technologies - Live Demonstrations. Ed. by Vegte, John van de, David Arctur, George Percivall, and Joan Mas. Vol. 16. EGU2014-15739. European Geosciences Union. 2014. <http://meetingorganizer.copernicus.org/EGU2014/EGU2014-15739.pdf>.

Stasch, C., Scheider, S. & E. Pebesma (2014): Annotating spatio-temporal datasets for meaningful analysis in the Web. EGU General Assembly 2014, session ESSI2.2, April 27 - May 2, 2014, Vienna, Austria.

AGU Fall Meeting

Read, J. S., Winslow, L. A., Nüst, D., De Cicco, L. & J. Walker (2014): A suite of R packages for web-enabled modeling and analysis of surface waters. In: AGU Fall Meeting. Session H44D: Open-Source Tools and Software Development for the Hydrological Sciences

Stasch, C. & R. Kersten (2014): App-basierte Datenerfassung zur Bewertung der Verkehrsqualität. Verkehrstag Münsterland 2014, November 18., 2014, Münster Germany.

2013

Journals

Stasch, C., Schneider, S., Pebesma, E. & W. Kuhn (2014): Meaningful spatial prediction and aggregation. *Environmental Modelling & Software* 51, pp. 149-165.

<http://www.sciencedirect.com/science/article/pii/S1364815213001977>

Bastin, L., D. Cornford, J.M. Richard, G.B.M. Heuvelink, E. Pebesma, C. Stasch, S. Nativi, P. Mazetti & M. Williams (2013): Managing Uncertainty in Integrated Environmental Modelling Frameworks: The UncertWeb framework. *Environmental Modelling & Software* 39, pp. 116-134. (pdf).

Gerharz, L. E., O. Klemm, A.V. Broich & E. Pebesma (2013): Spatio-temporal modelling of individual exposure to air pollution. *Atmospheric Environment*, Volume 64, pp. 56-65.

Gerharz, L.E. & E. Pebesma (2013): Using geostatistical simulation to disaggregate air quality model results for individual exposure estimation on GPS tracks. *Stochastic Environmental Research and Risk Assessment* 27 (1), pp. 223-234.

Senaratne, H., A. Bröring & T. Schreck (2013): [Using Reverse Viewshed Analysis to Assess the Location Correctness of Visually Generated VGI](#). In: *Transactions in GIS*, 17(3), pp. 369-386. [[publisher link](#)]

Conference Proceedings

EGU 2013

Cornford, D., C. Stasch, E. Pebesma, R. Jones, L. Bastin & L. Bigagli (2013): Building the "Uncertainty Enabled Model Web" - lessons learned, 2013. *Geophysical Research Abstracts* Vol. 15, EGU2013-7639, 2013 EGU General Assembly 2013. April 7 - 12, 2013. Vienna, Austria.

Demuth, D., D. Nüst, A. Bröring, E. Pebesma. The AirQuality SenseBox. *Geophysical Research Abstracts* Vol. 15, EGU2013-5146, 2013 EGU General Assembly 2013. April 7 - 12, 2013. Vienna, Austria.

Pebesma, E., K.B Helle, C. Stasch, S. Rasouli, H. Timmermans, S.-E. Walker & B. Denby (2013): Uncertainty in exposure to air pollution. *Geophysical Research Abstracts* Vol. 15, EGU2013-8362, 2013 EGU General Assembly 2013. April 7 - 12, 2013. Vienna, Austria.

Skøien, J., G. Laaha, D. Koffler, G. Blöschl, E. Pebesma, J. Parajka & A. Viglione (2013): Rtop - an R package for interpolation of data with a variable spatial support - examples from river networks. *Geophysical Research Abstracts* Vol. 15, EGU General Assembly 2013. April 7 - 12, 2013. Vienna, Austria.

AGILE 2013

Hinz, M., D. Nüst, B. Proß & E. Pebesma (2013): Spatial Statistics on the Geospatial Web. Short paper In: Vandenbroucke, D., B. Bucher & J. Crompvoets (Eds.), Online Proceedings of the 16th AGILE International Conference on Geographic Information Science. May 15-17, 2013. Leuven, Belgium.

Senaratne, H., A. Bröring. & T. Schreck (2013): [Assessing the Credibility of VGI Contributors Based on Metadata and Reverse Viewshed Analysis - An Experiment with Geotagged Flickr Images](#). In: Vandenbroucke, D., B. Bucher & J. Crompvoets (Eds.), Online Proceedings of the 16th AGILE International Conference on Geographic Information Science. May 15-17, 2013. Leuven, Belgium. [[publisher link](#)]

Stasch, C., E. Pebesma, B. Graeler & L. Gerharz (2013): Error-Aware Spatio-Temporal Aggregation in the Model Web. In: Vandenbroucke, D., B. Bucher & J. Crompvoets (Eds.), Online Proceedings of the 16th AGILE International Conference on Geographic Information Science. May 15-17, 2013. Leuven, Belgium.

2012

Journals

Pebesma, E., Nüst, D. & R. Bivand (2012): The R Software Environment in Reproducible Geoscientific Research. In: EOS, Transactions, American Geophysical Union. Volume 93, Number 16, April 17, 2012. pp.163 - 164.

Pebesma, E. (2012): spacetime: Spatio-Temporal Data in R. In: Journal of Statistical Software. Volume 51, Issue 7, ; 1-30. <http://www.jstatsoft.org/>

Bastin, L., D. Cornford, J.M. Richard, G.B.M. Heuvelink, E. Pebesma, C. Stasch, S. Nativi, P. Mazetti, M. Williams, in press. Managing Uncertainty in Integrated Environmental Modelling Frameworks: The UncertWeb framework. Environmental Modelling & Software, published online. (pdf).

Stasch, C., T. Foerster, C. Autermann, E. Pebesma, 2012. Spatio-Temporal aggregation of European Air Quality Observations in the Sensor Web. Computers and Geosciences 47, 111-118.

Masó, J. (2012): Visualising Quality. In: International Innovation Magazine, pp. 57 - 59.

Stasch, C., T. Foerster, C. Autermann, E. Pebesma, 2012. Spatio-Temporal aggregation of European Air Quality Observations in the Sensor Web. Computers and Geosciences 47, 111-118.

Conferences

AGILE 2012

Senaratne, H. L. Gerharz, E. Pebesma, A. Schwering, 2012. Usability of Spatio-Temporal Uncertainty Visualisation Methods. In: Bridging the Geographic Information Sciences, Lecture Notes in Geoinformation and Cartography, J. Gensel, D. Josselin and D. Vandenbroucke. Springer Berlin Heidelberg, (Agile 2012 proceedings)

Association of American Geographers (AAG) Annual Meeting: New York 2012

Pebesma, E., (2012): R for reproducible geographical research. AAG meeting, February 24 - 27, 2012, New York, USA.

Geoinformatik 2012

Nüst, D.: (2012): Qualität im Sensor Web. Geoinformatik - Mobility and Environment. March 29, 2012, Braunschweig, Germany.

iEMSs 2012

Pross, B., Stasch, C., Gerharz, L. & E. Pebesma (2012): Tools for uncertainty propagation in the Model Web using Monte Carlo Simulation. iEMS 2012. July 1 - 5, 2012, Leipzig, Germany.

2011

Journals

Stasch, C.; Foerster, F.; Autermann, C. & E.J. Pebesma (2011): "Spatio-temporal aggregation of European air quality Observations in the Sensor Web". Computers&Geosciences, doi:10.1016/j.cageo.2011.11.008

OGC

Presentations

Stasch, C.; Jones, R. & D. Cornford (2011) : « UncertWeb O&M Profile ». Presentation at OGC TC Meeting. March 1, 2011. Bonn, Germany.

Conferences

AGILE 2011

Nüst, D.; Stasch, C. & E. J. Pebesma (2011): "Connecting R to the Sensor Web". The 14th AGILE International Conference on Geographic Information Science. April 18 - 21, 2011. Utrecht, Netherlands.

Senaratne, H.V. & L. Gerharz (2011): "An Assessment and Categorisation of Quantitative Uncertainty Visualisation Methods for Geospatial Data". In: Geertman, S., Reinhardt, W., Toppen, F., (eds.). Proceedings of the 14th AGILE International Conference on Geographic Information Science - Advancing Geoinformation Science for a Changing World, Utrecht, 2011. AGILE. ISBN 978-90-816960-1-2.

Stasch, C.; Autermann, C.; Foerster, T. & E. J. Pebesma (2011): "Towards a Spatiotemporal Aggregation Service in the Sensor Web". In: Stan Geertman, Wolfgang Reinhardt, and Fred Toppen, editors. Proceedings of the 14th AGILE International Conference on Geographic Information Science - Advancing Geoinformation Science for a Changing World, Utrecht, 2011. AGILE. ISBN 978-90-816960-1-2.

FOSSGIS 2011

Proß, B.; Cornford, D.; Gerharz, L.; Jones, R.; Pebesma, E.; Stasch, C. & M. Williams (2011): "Are you sure? - Open Source Tools for Uncertainty Enabling the Model Web". FOSS4G 2011. September 12 - 16, 2011. Boulder Colorado, USA.

EGU 2011

Gerharz, L.E.; Proß, B.; Stasch, C. & E. J. Pebesma (2011): "A Web-based Uncertainty-enabled Information System for Urban Air Quality Assessment". European Geosciences Union (EGU) General Assembly 2011. April 3-8, 2011. Vienna, Austria.