

CURRICULUM VITAE

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EDUCATION

University of Vienna, Austria

2019 Venia Docendi in Geoinformation and Cartography
Habilitation Title: *The Geography of Crime: Spatial and Spatio-Temporal Analysis, Modeling, and Mapping of Crime Using Geographic Information Science and Technology.*

State University of New York (SUNY) at Buffalo

1997 Ph.D. in Geography with emphases on GIS and Computer Cartography
Title: *The Impact of Attribute Certainty Displays on Spatial Decision Support*
Advisor: Dr. Barbara P. Buttenfield

1993 M.A. in Geography with emphases on GIS and Computer Cartography
Title: *Prototype Rules for Automated Map Generalization*
Advisor: Dr. Barbara P. Buttenfield

University of Vienna, Austria

1990 M.A. in Geography with emphasis on Economic Geography (with Honors)
Title: *The Determinants of the Regional Income Distribution in Austria*
Advisor: Dr. Manfred M. Fischer

1987 B.A. in Geography (with Honors)

1987 B.A. in Cartography (with Honors)

ENDOWED PROFESSORSHIP

Louisiana State University, Baton Rouge

2022-present Carl O. Sauer Professor

2020-2022 Fred B. Kniffen Professor

HONORS

2021 **German Society for Cartography**

Award for the best review for “KN – Journal of Cartography and Geographical Information”

- 2007 **The Association of American Geographers**
 2007 Meredith F. Burrill Award (together with Mills J., Curtis A., Pine J., and B. Kennedy)
- 1994 **Department of Geography, State University of New York at Buffalo**
 Nomination for the **Excellence in Teaching Award**

BOOKS

- 2022 Konsoer, K., Leitner, M., and L. Quinn (eds.) (2022) *sUAS Applications in Geography*. Springer: Heidelberg, 331 pages.
- 2017 Leitner, M. and J.J. Arsanjani (eds.) (2017) *Citizen Empowered Mapping*. Springer: Heidelberg, 300 pages.
- 2015 Helbich, M., Arsanjani J.J., and M. Leitner (eds.) (2015) *Computational Approaches for Urban Environments*. Springer: Heidelberg, 395 pages.
- 2013 Leitner, M. (ed.) (2013) *Crime Modeling and Mapping Using Geospatial Technologies*. Springer: Heidelberg, 446 pages.
- 2008 Arden, W. and M. Leitner (2008) *The New Medical Geography of Public Health and Tropical Medicine: Case Studies from Brazil*. VDM Publishing: Saarbrücken, Germany, 166 pages.
- 2006 Curtis, A. and M. Leitner (2006) *Geographic Information Systems and Public Health: Eliminating Perinatal Disparity*. Idea Group Inc.: Hershey, PA, 317 pages.

CO-EDITED JOURNAL VOLUMES

- 2023 Leitner, M., Fabrikant, S.I., and A. Skupin (2023) Special Issue on the Scholarship and Impacts of Professor Emerita Barbara P. Battenfield, Special Issue of *Cartography and Geographic Information Science*, forthcoming in 2023.
- 2020 Leitner, M. and A. Ristea (eds.) (2020) Urban Crime Mapping and Analysis using GIS. Special Issue of *ISPRS International Journal of Geo-Information*, 9 (9), 511.
- 2017 Helbich, M. and M. Leitner (eds.) (2017) Frontiers in Spatial and Spatiotemporal Crime Analytics. Special Issue of *ISPRS International Journal of Geo-Information*, 6 (3), 73.
- Arsanjani J.J., Leitner, M., and A. Zipf (eds.) (2017) Crowdsourced Mapping. Special Issue of *Cartography and Geographic Information Science*, 44 (2), 95-184.
- 2016 Lampoltshammer, T.J., Leitner, M., and N. Edelmann (eds.) (2016) Open and Visual Access to Information. Special Issue of *E-Journal of E-Democracy and Open Government*, 8 (2), i-115.
- 2015 Leitner, M. & M. Helbich (eds.) (2015) Innovative Crime Modeling and Mapping. Special Issue of *Cartography and Geographic Information Science*, 42 (2), 95-209.

- 2014 Kounadi, O., Belgiu, M., and M. Leitner (eds.) (2014). Geographic Information Science: A Multi-Disciplinary and Multi-Paradigmatic Discipline. Special issue of *Cartography and Geographic Information Science*, 41 (3), 193-307.
- 2013 Tsou, M.-H. and M. Leitner (eds.) (2013) Mapping Cyberspace and Social Media. Special issue of *Cartography and Geographic Information Science*, 40 (2), 55-155.
- 2011 Lebeau, J. L. and M. Leitner (eds.). (2011) Spatial Methodologies for Studying Crime. Special issue of *The Professional Geographer*, 63 (2), 161-261.
- 2007 Leitner, M. and A. Skupin (eds.) (2007) Cartography 2007: Reflection, Status, and Prediction. 2007 U.S. National Report to the International Cartographic Association published as a special issue of *Cartography and Geographic Information Science*, 34 (2), 73-171.
- 2002 Weixlbaumer, N., Wohlschlägl, H., and M. Leitner (eds.) (2002) Forschungsberichte Auslandsösterreicher - junge Geographinnen und Geographen berichten. *Geographischer Jahresbericht aus Österreich*, Vol. 59.

ENCYCLOPEDIA ENTRIES

- 2021 Leitner, M., Glasner, P., and R. Kounadi (2021) *Geographies of Crime*. The Encyclopedia of Research Methods in Criminology and Criminal Justice. Wiley: Hoboken, vol. 1, 60-63.
- 2018 Leitner, M., Glasner, P., and R. Kounadi (2018) *Laws of Geography*. Oxford Research Encyclopedia of Criminology and Criminal Justice. Oxford University Press: Oxford (DOI: 10.1093/acrefore/9780190264079.013.325).
- 2010 Leitner, M. (2010) Flow Maps. In Warf, B. (Ed.) *Encyclopedia of Geography*, 1139-1140. Sage: Thousand Oaks, CA (doi:10.4135/9781412939591.n441).

REFEREED JOURNAL ARTICLES

- 2022 Stein, M., Leitner, M., Trepanier, J.C., and K. Konsoer (2022) A Dataset of Dropout Rates and Other School-Level Variables in Louisiana Public High Schools. *Data*, 7, 48 (<https://doi.org/10.3390/data7040048>).
- 2021 Matczak, P., Dąbrowski, A., Wójtowicz, A., Leitner, M., and N. Sypion-Dutkowska (2021) Effectiveness and Durability of CCTV Systems as a Crime Preventive Tool: Evidence from Eight Polish Cities. *International Journal of Comparative and Applied Criminal Justice* (DOI: 10.1080/01924036.2021.1976237).
- Sypion-Dutkowska, N., Leitner, M., and M. Dutkowski (2021) Impact of Metropolization on Crime in Large Cities (Case Study Poland), *Cities*, 119, 103359 (<https://doi.org/10.1016/j.cities.2021.103359>).
- Glasner, P., Leitner, M., and L. Oswald (2021) Estimating and Predicting the Temporal Information of Apartment Burglaries that Possess Imprecise Timestamps: A Comparative Study Using Eight Different Temporal Approximation Methods in Vienna, Austria. *PLoS ONE*, 16(8): e0253591 (<https://doi.org/10.1371/journal.pone.0253591>).

- Ristea, A., Leitner, M., Resch, B., and J. Stratmann (2021) Applying Spatial Video Geonarratives and Physiological Measurements to Explore Perceived Safety in Baton Rouge, Louisiana. *International Journal of Environmental Research and Public Health*, 18, 1284 (<https://doi.org/10.3390/ijerph18031284>).
- Soleimani, S., Leitner, M., and J. Codjoe (2021) Applying Machine Learning, Text Mining, and Spatial Analysis Techniques to Develop a Highway-Railroad Grade Crossing Consolidation Model. *Accident Analysis and Prevention*, 152 (105985), (<https://doi.org/10.1016/j.aap.2021.105985>).
- 2020 Kounadi, O., Ristea, A., Araujo, A., and M. Leitner (2020) A Systematic Review on Spatial Crime Forecasting. *Crime Science*, 9 (7) (<https://doi.org/10.1186/s40163-020-00116-7>).
- Ristea, A., Al Boni, M., Resch, B., Gerber, M.S., and M. Leitner (2020) Spatial Crime Distribution and Prediction for Sporting Events Using Social Media. *International Journal of Geographical Information Science*, 34 (9), 1708-1739 (<https://doi.org/10.1080/13658816.2020.1719495>).
- Oswald, L. and M. Leitner (2020) Evaluating Temporal Approximation Methods Using Burglary Data. *ISPRS International Journal of Geo-Information*, 9 (6) (<https://doi.org/10.3390/ijgi9060386>).
- 2019 Krauthausen, P., Leitner, M., Ristea, A., and A. Curtis (2019) Collecting and Analyzing Soccer-Related Graffiti with the Spatial Video Technology and GIS: A Case Study in Krakow, Poland. *Urban Development Issues*, 62, 61–73 (DOI: 10.2478/udi-2019-0010).
- Marchowski, D. and M. Leitner (2019) Conservation Implications of Extraordinary Greater Scaup *Aythya marila* Concentrations in the Odra Estuary, Poland. *The Condor: Ornithological Applications*, 121 (2), 1-10 (<https://doi.org/10.1093/condor/duz013>).
- Soleimani, S., Mousa, R. S., Codjoe, J., and M. Leitner (2019) A Comprehensive Railroad-Highway Grade Crossing Consolidation Model: A Machine Learning Approach. *Accident Analysis and Prevention*, 128, 65-77 (<https://doi.org/10.1016/j.aap.2019.04.002>).
- 2018 Dabrowski, A., Matczak, P., Wójtowicz, A., and M. Leitner (2018) Identification of Experimental and Control Areas for CCTV Effectiveness Assessment - The Issue of Spatially Aggregated Data. *ISPRS International Journal of Geo-Information*, 7 (471) (doi:10.3390/ijgi7120471).
- Glasner, P., Johnson, D.S., and M. Leitner (2018) A Comparative Analysis to Forecast Apartment Burglaries in Vienna, Austria, Based on Repeat and Near Repeat Victimization. *Crime Science*, 7 (9) (<https://doi.org/10.1186/s40163-018-0083-7>).
- Ristea, A., Andresen, M., and M. Leitner (2018) Using Tweets to Understand Changes in the Spatial Crime Distribution for Hockey Events in Vancouver. *The Canadian Geographer*, 62 (3), 338-351 (doi:10.1111/cag.12463).
- Ristea, A., Kurland, J., Resch, B., Leitner, M., and C. Langford (2018) Estimating the Spatial Distribution of Crime Events Around a Football Stadium from Georeferenced Tweets. *ISPRS International Journal of Geo-Information*, 7 (2) (doi:10.3390/ijgi7020043).

- Kounadi, O., Ristea, A., Leitner, M., and C. Langford (2018) Population at Risk: Using Areal Interpolation and Twitter Messages to Create Population Models for Burglaries and Robberies. *Cartography and Geographic Information Science*, 45 (3), 205-220 (doi:10.1080/15230406.2017.1304243).
- Strelnikova, D., Schneider, T, and M. Leitner (2018) Utilizing Spatial Video to Analyse Roadside Advertisements in Villach, Austria. *GI_Forum 2018*, 1, 34-46 (doi:10.1553/giscience2018_01_s34)
- 2017 Schneider, C., Gröchenig, S., Venek, V., Leitner, M., and S. Reich (2017) A Framework for Evaluating Stay Detection Approaches. *ISPRS International Journal of Geo-Information*, 6 (315) (doi:10.3390/ijgi6100315).
- Sypion-Dutkowska, N. and M. Leitner (2017) Land Use Influencing the Spatial Distribution of Urban Crime: A Case Study of Szczecin, Poland. *ISPRS International Journal of Geo-Information*, 6 (74) (doi:10.3390/ijgi6030074).
- Glasner, P. and M. Leitner (2017) Evaluating the Impact the Weekday Has on Near-Repeat Victimization: A Spatio-Temporal Analysis of Street Robberies in the City of Vienna, Austria. *ISPRS International Journal of Geo-Information*, 6 (3) (doi:10.3390/ijgi6010003).
- 2016 Jia, P., Anderson, J.D., Leitner, M., & R. Rheingans (2016) Mapping Improved Sanitation Clustering: The Spatial Distribution of Improved Sanitation in Different Wealth Groups in Kenya. *PLOS ONE*, 11 (7) (doi:10.1371/journal.pone.0158490).
- Kounadi O. & M. Leitner (2016) Adaptive Areal Elimination (AAE): A Transparent Way of Disclosing Protected Spatial Datasets. *Computers, Environment and Urban Systems*, 57, 59–67 (https://doi.org/10.1016/j.compenvurbsys.2016.01.004).
- 2015 Leitner, M., Lam, N. N. S., Wang, F., Wang, L., Meng, S., & J. Kent (2015) Geographic Information Science and Technology at Louisiana State University. *Cartography and Geographic Information Science*, 42 (sup1), S84–S90 (doi:10.1080/15230406.2015.1059255).
- Leitner, M. & O. Kounadi (2015). Invited Commentary to “Mapping Fear of Crime as a Context-Dependent Everyday Experience that Varies in Space and Time.” *Legal and Criminological Psychology*, 20 (2), 218-221 (doi:10.1111/lcrp.12084).
- Helbich, M., Leitner, M., & N. D. Kapusta (2015) Lithium in Drinking Water and Suicide Mortality: Interplay with Lithium Prescriptions. *The British Journal of Psychiatry*, 207 (1), 64-71 (doi:10.1192/bjp.bp.114.152991).
- Kounadi O. & M. Leitner (2015). Defining a Threshold Value for Maximum Spatial Information Loss of Masked Geo-Data. *ISPRS International Journal of Geo-Information*, 4 (2), 572-590 (doi:10.3390/ijgi4020572).
- Kounadi, O., Lampoltshammer, T. J., Groff, E., Sitko, I., & M. Leitner (2015). Exploring Twitter to Analyze the Public’s Reaction Patterns to Recently Reported Homicides in London. *PLOS ONE*, 10 (3) (doi: 10.1371/journal.pone.0121848).

- Kounadi, O. & M. Leitner (2015) Spatial Information Divergence: Using Global and Local Indices to Compare Geographical Masks Applied to Crime Data. *Transactions in GIS*, 19 (5), 737-757 (doi:10.1111/tgis.12125).
- Kounadi, O., Bowers, K., & M. Leitner (2015) Crime Mapping On-Line: Public Perception of Privacy Issues. *European Journal on Criminal Policy and Research*, 21 (1), 167-190 (doi:10.1007/s10610-014-9248-4).
- Pharr, L., Leitner, M., & M. H. Manhein (2015) Comparing avian and terrestrial scavenging evidence and addressing why the Crested Caracara (*Caracara cheriway*) steals bones. *American Journal of Physical Anthropology*, 156, 252-252.
- 2014 Kounadi, O. & M. Leitner (2014). Why does geoprivacy matter? The scientific publications of confidential data presented on maps. *Journal of Empirical Research on Human Research Ethics*, 9 (4), 34-45 (doi:10.1177/1556264614544103).
- 2013 Helbich, M., Blüml, V., Leitner, M., & N. D. Kapusta (2013) Does Altitude Moderate the Impact of Lithium on Suicide? A Spatial Analysis of Austria. *Geospatial Health*, 7 (2), 209-218 (doi:10.4081/gh.2013.81).
- Helbich, M., Hagenauer, J., Leitner, M., & R. Edwards (2013) Exploration of Unstructured Narrative Crime Reports: An Unsupervised Neural Network and Point Pattern Analysis Approach. *Cartography and Geographic Information Science*, 40 (4), 326-336 (doi:10.1080/15230406.2013.779780).
- Kounadi, R., Lampoltshammer, T. J., Leitner, M., & T. Heistracher (2013) Accuracy and Privacy Aspects in Free Online Reverse Geocoding Services. *Cartography and Geographic Information Science*, 40 (2), 140-153 (doi:10.1080/15230406.2013.777138).
- Helbich, M., Brunauer, W., Hagenauer, J., & M. Leitner (2013) Data-Driven Regionalization of Housing Markets. *Annals of the Association of American Geographers*, 103 (4), 871-889 (doi:10.1080/00045608.2012.707587).
- 2012 Helbich, M., Leitner, M., & N. D. Kapusta (2012) Geospatial Examination of Lithium in Drinking Water and Suicide Mortality. *International Journal of Health Geographics*, 11:19 (doi:10.1186/1476-072X-11-19).
- Kent, J. and M. Leitner (2012) Incorporating Land Cover within Bayesian Journey-to-Crime Estimation Models. *International Journal of Psychological Studies*, 4 (2), 120-140 (doi:10.5539/ijps.v4n2p120).
- 2011 Helbich, M., Hagenauer, J., and M. Leitner (2011) Raum-zeitliche Analyse von Verbrechenhotspots mittels Trajektorien und selbstorganisierenden Karten. *Mitteilungen der Österreichischen Geographischen Gesellschaft*, 153, 291-304 (doi:10.1553/moegg153s291).
- Leitner, M. and M. Helbich (2011) The Impact of Hurricanes on Crime: A Spatio-Temporal Analysis in the City of Houston, TX. *Cartography and Geographic Information Science*, 38 (2), 214-222 (doi:10.1559/15230406382213).
- LeBeau, J. L. and M. Leitner (2011) Progress in Research on the Geography of Crime. *The Professional Geographer*, 63 (2), 161-173 (doi:10.1080/00330124.2010.547147).

- Leitner, M., Barnett, M., Kent, J., and T. Barnett (2011) The Impact of Hurricane Katrina on Reported Crimes in Louisiana: A Spatial and Temporal Analysis. *The Professional Geographer*, 63 (2), 244-261 (doi:10.1080/00330124.2010.547156).
- 2010 Helbich, M. and M. Leitner (2010) Postsuburban Spatial Evolution of Vienna's Urban Fringes: Evidence from Point Process Modeling. *Urban Geography*, 31 (8), 1100-1117 (doi:10.2747/0272-3638.31.8.1100).
- 2009 Helbich, M. and M. Leitner (2009) Spatial Analysis of the Urban-to-Rural Migration Determinants in the Viennese Metropolitan Area. A Transition from Suburbia to Postsuburbia? *Applied Spatial Analysis and Policy*, 2 (3), 237-260 (doi:10.1007/s12061-009-9026-8).
- Kent, J. D. and M. Leitner (2009) Utilizing Land Cover Characteristics to Enhance Journey-to-Crime Estimation Models. Inaugural Issue of *Crime Mapping: A Journal of Research and Practice*, 1 (1), 33-54.
- Leitner, M. and J. Kent (2009) Bayesian Journey to Crime Modeling of Single- and Multiple Crime Type Series in Baltimore County, MD. *Journal of Investigative Psychology and Offender Profiling*, 6 (3), 213-236 (doi:10.1002/jip.109).
- 2007 Kent, J. and M. Leitner (2007) Efficacy of Standard Deviation Ellipses in the Application of Criminal Geographic Profiling. *Journal of Investigative Psychology and Offender Profiling*, 4 (3), 147-165 (doi:10.1002/jip.72).
- Leitner, M., Kent, J., Oldfield, I., and E. Swoope (2007) Geoforensic Analysis Revisited - The Application of Newton's Geographic Profiling Method to Serial Burglaries in London, UK. *Police Practice and Research: An International Journal*, 8 (4), 359-370 (doi:10.1080/15614260701615060).
- Curtis, A., Mills, J., and M. Leitner (2007) Katrina and Vulnerability: The Geography of Stress, *Journal of Health Care for the Poor and Underserved*, 18 (2), 315-330 (doi:10.1353/hpu.2007.0029).
- Leitner, M. and H. Brecht (2007) Crime Analysis and Mapping with GeoDa 0.9.5-i. *Social Science Computer Review*, 25 (2), 265-271 (doi:0.1177/0894439307298921).
- Leitner, M., Mills, J. and A. Curtis (2007) Can Novices to Geospatial Technology Compromise Spatial Confidentiality? *Kartographische Nachrichten*, 57 (2), 78-84.
- Listi, G. A., Manhein, M. H., and M. Leitner (2007) Use of the Global Positioning System in the Field Recovery of Scattered Human Remains. *Journal of Forensic Sciences*, 52 (1), 11-15 (doi:10.1111/j.1556-4029.2006.00304.x).
- Knowles, J. and M. Leitner (2007) Visual Representations of the Spatial Relationship Between Bermuda High Strengths and Hurricane Tracks. *Cartographic Perspectives*, 56, 37-51.
- 2006 Curtis, A., Mills J.W., and M. Leitner (2006) Spatial Confidentiality and GIS: Re-engineering Confidential Information from Maps about Hurricane Katrina, *International Journal of Health Geographics*. 5:44 (doi:10.1186/1476-072X-5-44).

Leitner, M. and A. Curtis (2006) A First Step Towards a Framework for Presenting the Location of Confidential Point Data on Maps - Results of an Empirical Perceptual Study. *International Journal of Geographical Information Science*, 20 (7), 813-822 (doi:10.1080/13658810600711261).

Curtis, A., Mills, J., and M. Leitner (2006) Keeping an Eye on Privacy Issues with Geospatial Data. *Nature*, 441, 150 (doi:10.1038/441150d).

Fassmann, H. and M. Leitner (2006) New Orleans, “Katrina” and the Urban Impact of a Natural Disaster. *Geographische Rundschau (International Edition)*, 2 (2): 44-50.

Manhein, M., Listi, G. and M. Leitner (2006) The Application of Geographic Information Systems (GIS) and Spatial Analysis (SA) to Assess Dumped and Scattered Human Remains. *Journal of Forensic Sciences*, 51 (3), 469-474 (doi:10.1111/j.1556-4029.2006.00108.x).

Kent, J., Leitner, M. and A. Curtis (2006) Evaluating the Usefulness of Functional Distance Measures When Calibrating Journey-To-Crime Distance Decay Functions. *Computers, Environment and Urban Systems*, 30 (2), 181-200 (doi:10.1016/j.compenvurbsys.2004.10.002).

2004 Leitner, M. and A. Curtis (2004) Cartographic Guidelines for Geographically Masking the Location of Confidential Point Data. *Cartographic Perspectives*, 49, 22-39 (doi:10.14714/CP49.439)

2000 Leitner, M. and B. P. Buttenfield (2000) Guidelines for the Display of Attribute Certainty. *Cartography and Geographic Information Science*. 27 (1), 3-14 (doi:10.1559/152304000783548037).

1995 Leitner M. and B. P. Buttenfield (1995) Acquisition of Procedural Cartographic Knowledge by Reverse Engineering. *Cartography and Geographic Information Systems*, 22 (3), 232-241 (doi:10.1559/152304095782540320).

REFEREED CONFERENCE PROCEEDINGS

2019 Soleimani, S., Mohammadi, A., Chen, J., and M. Leitner (2019) Mining the Highway-Rail Grade Crossing Crash Data: A Text Mining Approach, *18th IEEE International Conference on Machine Learning and Applications*, Boca Raton, FL, USA.

2018 Ristea, A., Leitner, M., and M.A. Andresen (2018) Opinion Mining from Twitter and Spatial Crime Distribution for Hockey Events in Vancouver. *The 21th AGILE International Conference on Geographic Information Science*. Lund, Sweden.

Ristea, A., Kounadi, O., and M. Leitner (2018) Geosocial Media Data as Predictors in a GWR Application to Forecast Crime Hotspots. *10th International Conference on Geographic Information Science, GIScience 2018*, Melbourne, Australia.

2017 Ristea, A., Langford, C., and M. Leitner (2017) Relationships between Crime and Twitter Activity around Stadiums. *25th International Conference on Geoinformatics*. IEEE Explore®.

2015 Kocher, M. and M. Leitner (2015) Forecasting of Crime Events Applying Risk Terrain Modeling. *GI-Forum 2015*. Herbert Wichmann Verlag, Heidelberg.

- 2014 Glasner, P. and M. Leitner (2014) Evaluating the Impact the Weekday has on Near-Repeat Victimization: A Spatio-Temporal Analysis of Robberies in the City of Vienna, Austria. *AutoCarto 2014*, Pittsburgh, PA.
- 2013 Helbich, M., Arsanjani, J. J., and M. Leitner (2013) Driving Forces of Non-Violent Crime in Houston, TX: A Spatially Filtered Negative Binomial Model. *GI-Forum 2013*. Herbert Wichmann Verlag, Heidelberg.
- Leitner, M. and D. Guo (2013) Analyzing the Impact of One Important Unplanned Exceptional Event, Hurricanes, on Crime in Louisiana, U.S. Using a Visual Analytics Approach. *GI-Forum 2013*. Herbert Wichmann Verlag, Heidelberg.
- 2012 Lederer, D. and M. Leitner (2012) Erfassung der stadtteilspezifischen Kriminalitätsfurcht und Verortung von Kriminalitätsfurchträumen in Linz. *Applied Geographic Information Technology 2012*. Herbert Wichmann Verlag, Heidelberg.
- 2011 Robin, C., Kopeinig, R., Leitner, M., Gaebler, K. and V.M. Garcia-Barrios (2011) Aerodrome Mapping Database: Entwurf und Modellierung eines Datenbanksystems für Flughäfen. *Applied Geographic Information Technology 2011*. Herbert Wichmann Verlag, Heidelberg.
- Robnik, M., Dörfel, G., Paulus, G., Gfrerer, W. and M. Leitner (2011) Automatisiertes Management von Geodaten und Projekten durch Scripting und visuelle Programmierung. *Applied Geographic Information Technology 2011*. Herbert Wichmann Verlag, Heidelberg.
- Kosar, B., Gröchenig, S., Leitner, M., Paulus, G., and S. Ward (2011) The Application of Geospatial Technology in Hazards and Disaster Research: Developing and Evaluating Spatial Recovery Indices to Assess Flood Hazard Zones and Community Resilience in Austrian Communities. *GI-Forum 2011*. Herbert Wichmann Verlag, Heidelberg.
- 2010 Kulmesch, S., Leitner, M. and G. Paulus (2010) Konzeptionelle Überlegungen zur Einsetzbarkeit von HAZUS-MH in Österreich – Eine Fallstudie zur Abschätzung des Schadenspotentials bei Hochwasserfällen in Kärnten. *Applied Geographic Information Technology 2010*. Herbert Wichmann Verlag, Heidelberg, pp. 872-880.
- Jaklitsch, J., Leitner, M. and G. Koren (2010) Die Erreichbarkeit ausgewählter Versorgungseinrichtungen mit und ohne Berücksichtigung von räumlichen Grenzeffekten - Das Beispiel Klagenfurt Stadt. *Applied Geographic Information Technology 2010*. Herbert Wichmann Verlag, Heidelberg, pp. 494-503.
- Helbich, M. and M. Leitner (2010) Auswirkungen der Hurrikans Katrina und Rita auf raumzeitliche Kriminalitätscluster in Houston, TX. Ein Scan Statistik Ansatz. *Applied Geographic Information Technology 2010*. Herbert Wichmann Verlag, Heidelberg, pp. 50-59.
- Brunner, D., Egger, G. and M. Leitner (2010) Statistical Analysis for Discovering Distribution Patterns of Succession Types and Abiotic Factors Along Rivers. *GI-Forum 2010*. Herbert Wichmann Verlag, Heidelberg, pp. 26-35.
- 2009 Leitner, M. and M. Helbich (2009) Analyzing, Modeling, and Mapping the Impact of Hurricanes Katrina and Rita on the Spatial and Temporal Distribution of Crime in Houston, TX. *GI-Forum*. Herbert Wichmann Verlag, Heidelberg, pp. 110-119.

- Leitner, M., Arden, W.B. and J. Heukelbach (2009) Using Kernel Density Interpolation to Visualize the eEffects of Mass Treatment with Ivermectin on Helminth Prevalence in Rural Northeast Brazil. 24th International Cartographic Conference, Santiago de Chile, Chile.
- 2002 Leitner, M. and P. Stauer-Steinnocher (2002) Spatio-temporal changes in the Vienna food retailing market. *Applied Geographic Information Technology XIV*. Herbert Wichmann Verlag, Heidelberg, pp. 308-317.
- 2001 Leitner, M. and P. Stauer-Steinnocher (2001) Kernel Density Estimation - An Innovative Exploratory Tool in Geomarketing. *Applied Geographic Information Technology XIII*. Herbert Wichmann Verlag, Heidelberg, pp. 297-308.
- Roder, I., Leymüller, M. and M. Leitner (2001) Geographische Analysemaschine (GAM) - Eine Sensitivitätsanalyse einer innovativen und explorativen Methode zur Identifikation räumlicher Punktcluster. *Applied Geographic Information Technology XIII*. pp. 400-411. Wichmann, Heidelberg.
- 1999 Leitner, M. (1999) Residential Patterns of Graduate Students and their Professors: An Application of *Hot Spot* and Spatial Association Techniques. *Applied Geographic Information Technology XI*, pp. 345-353. Wichmann, Heidelberg.

REFERRED BOOK CHAPTERS

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