

Lixin Li

Associate Professor in Computer Science
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Professional Preparation

Southwest Jiaotong University, China	Computer Engineering	BS, 1997
Southwest Jiaotong University, China	Computer Science	MS, 1999
University of Nebraska-Lincoln	Computer Science	PhD, 2003

Appointments

2009-current	Associate Professor, Department of Computer Sciences, Georgia Southern University
2003-2009	Assistant Professor, Department of Computer Sciences, Georgia Southern University

Five Related Publications

- Li, L., Losser, T., Yorke, C., Piltner, R. Fast Inverse Distance Weighting-based Spatiotemporal Interpolation: A Web-based Application of Interpolating Daily Fine Particulate Matter PM_{2.5} in the Contiguous U.S. using Parallel Programming and k-d Tree. *International Journal of Environmental Research and Public Health*, 11(9), 9101-9141, 2014.
- Losser, T., Li, L., Piltner, R. A Spatiotemporal Interpolation Method Using Radial Basis Functions for Geospatial Big Data. *Proc. of the 5th International Conference on Computing for Geospatial Research and Application*, 17-24, Washington DC, IEEE, 2014.
- Li, L., Zhang, X., Holt, J. B., Tian, J., Piltner, R. Estimating Population Exposure to Fine Particulate Matter in the Conterminous U.S. using Shape Function-based Spatiotemporal Interpolation Method: A County Level Analysis. *International Journal on Computing*, 1(4), 24-30, 2012.
- Li, L., Zhang, X., Piltner, R. An Application of the Shape Function Based Spatiotemporal Interpolation Method on Ozone and Population Exposure in the Contiguous U.S. *Journal of Environmental Informatics*, International Society for Environmental Information Sciences, 12(2), 120-128, 2008.
- Li, L., Revesz, P. Interpolation Methods for Spatio-temporal Geographic Data. *Journal of Computers, Environment and Urban Systems*, Elsevier, 28(3), 201-227, 2004.

Five Other Significant Publications

- Li, L. Constraint Databases and Data Interpolation. *Encyclopedia of Geographic Information System*, 2nd ed., accepted, Springer, 2017.
- Li, L. Constraint Database Queries. *Encyclopedia of Geographic Information System*, 2nd ed., Springer, accepted, 2017.

- Li, L., Zhang, X., Holt, J. B., Tian, J., Piltner, R. Spatiotemporal Interpolation Methods for Air Pollution Exposure. *Proc. of the Ninth Symposium on Abstraction, Reformulation, and Approximation*, 75-81, Parador de Cardona, Spain, AAAI (Association for the Advancement of Artificial Intelligence), 2011.
- Li, L., Zhang, X., Piltner, R. A Spatiotemporal Database for Ozone in the Conterminous U.S. *Proc. of the Thirteenth International Symposium on Temporal Representation and Reasoning*, 168-176, Budapest, Hungary, IEEE, 2006.
- Revesz, P., Li, L. Constraint-Based Visualization of Spatiotemporal Databases. *Advances in Geometric Modeling*, John Wiley, 263-276, 2003.

Synergistic Activities

- SAOT Visiting Professor, Friedrich-Alexander University of Erlangen-Nuremberg, Germany, August 2012 – August 2013. SAOT is a graduate school of the German excellence initiative, founded by the German Research Foundation (DFG).
- Recipient of Researcher of the Year Award, College of Information Technology, Georgia Southern University, 2007.
- Recipient of Outstanding Ph.D. Award, Department of Computer Science and Engineering, University of Nebraska-Lincoln, May 2003.

Ph.D. Thesis Advisor: Peter Revesz (University of Nebraska - Lincoln)

Collaborators: Cheryl Aasheim (Georgia Southern University), Gina Besenyi (Augusta University), Jason Franklin (Georgia Southern University), James Holt (Centers for Disease Control and Prevention), Marc Kalo, Travis Losser, Reinhard Piltner (Georgia Southern University), Derek Ratcliff (JPMorgan Chase), Peter Revesz (University of Nebraska - Lincoln), Jie Tian (Clark University), Weitian Tong (Georgia Southern University), Charles Yorke (Murray State University), Xingyou Zhang (U.S. Census Bureau), Xiaolu Zhou (Georgia Southern University)

Former MS Students: Marc Kalo, Travis Losser, Derek Ratcliff (JPMorgan Chase), Charles Yorke (Murray State University)