

SHIH-LUNG SHAW

Professor

Department of Geography
University of Tennessee, KnoxvilleEmail: sshaw@utk.edu**Professional Preparation:**

- 1986 Ph.D. Geography, The Ohio State University
- 1983 M.A. Geography, The Ohio State University
- 1979 B.S. Geography, National Taiwan University

Current Position:

Professor, Department of Geography, University of Tennessee, Knoxville

Research Interests:

Transportation geography, time geography, GIS for transportation, temporal GIS, effects of information and communication technologies (ICT) on activity and interactions patterns

Recent Awards and Honors:

- 2010 Arts and Sciences Excellence Professorship, College of Arts and Sciences, University of Tennessee, Knoxville
- 2009 Betty Lynn Hendrickson Professorship, College of Arts and Sciences, University of Tennessee, Knoxville
- 2009 Chancellor's Research and Creative Achievement Award, University of Tennessee, Knoxville
- 2008 Elected to Fellow of the American Association for Advancement of Science (AAAS)
- 2008 Edward L. Ullman Award for outstanding contributions to the field of transportation geography, Transportation Geography Specialty Group, The Association of American Geographers (AAG)
- 2006 Guest Professor appointment, Wuhan University, Wuhan, China
- 2005 Research Fellow appointment, Chinese University of Hong Kong, Hong Kong, China

Publications:

- Yin, L., Shaw, S-L. and Yu, H. 2010. Potential effects of ICT on face-to-face meeting opportunities: a GIS-based time-geographic exploratory approach, *Journal of Transport Geography*, accepted for publication.
- Shaw, S-L. 2010. Geographic information systems for transportation: from a static past to a dynamic future, *Annals of GIS*, accepted for publication.
- Wong, D. and Shaw, S-L. 2010. Measuring segregation: an activity space approach, *Journal of Geographical Systems*, in press, DOI 10.1007/s10109-010-0112-x.
- Shaw, S-L. 2010. Implications of location-based service on human activities, *Communications of the China Computer Federation*, 6(6), 32–37 (in Chinese).
- Shaw, S-L. and Yu, H. 2009. A GIS-based time-geographic approach of studying individual activities and interactions in a hybrid physical-virtual space, *Journal of Transport Geography*, 17(2), 141–149.
- Shaw, S-L., Lu, F., Chen, J., and Zhou, C. 2009. China's airline consolidation and its effects on domestic airline networks and competition, *Journal of Transport Geography*, 17(4), 293–305.
- Shaw, S-L. 2009. Transportation and land use, in R. Kitchin and N. Thrift (eds.), *International Encyclopedia of Human Geography*. Volume 11. Oxford, UK: Elsevier, 470–475.

- Shaw, S-L., Yu, H. and Bombom, L. 2008. A space-time GIS approach to exploring large individual-based spatiotemporal datasets, *Transactions in GIS*, 12(4), 425–441.
- Yu, H. and Shaw, S-L. 2008. Exploring potential human interactions in physical and virtual spaces: A spatio-temporal GIS approach, *International Journal of Geographical Information Science*, 22(4), 409–430.
- Dye, A.S. and Shaw, S-L. 2007. A GIS-based spatial decision support system for tourists of the Great Smoky Mountains National Park, *Journal of Retailing and Consumer Services*, 14(4), 269–278.
- Han, W., Wang, J. and Shaw, S-L. 2006. Visual exploratory data analysis of traffic volume, *Lecture Notes in Computer Science*, 4293, 695–703.
- Shaw, S-L. and Xin, X. 2003. Integrated land use and transportation interaction: A temporal GIS exploratory data analysis approach, *Journal of Transport Geography*, 11(2), 103–115.
- Miller, H. and Shaw, S-L. 2001. Geographic Information Systems for Transportation: Principles and Applications. New York: Oxford University Press, 458 pages.
- Shaw, S-L. and Wang, D. 2000. Handling disaggregate spatiotemporal travel data in GIS, *Geoinformatica*, 4(2), 161–178.
- Shaw, S-L. and Ivy, R. 1994. Airline mergers and their effect on network structure, *Journal of Transport Geography*, 2(4), 234–246.
- Lee, J., Chen, L. and Shaw, S-L. 1994. A method for the exploratory analysis of airline networks, *Professional Geographer*, 46(4), 468–477.
- Shaw, S-L. 1993. GIS for urban travel demand analysis: Requirements and alternatives, *Computers, Environment and Urban Systems*, 17(1), 15–29.
- Shaw, S-L. and Williams, J. 1991. Role of transportation in Taiwan's regional development, *Transportation Quarterly*, XLV(2), 271–296.

Selected Recent Synergistic Activities:

- Invited presentation at the Center for Urban and Regional Analysis, Department of Geography, The Ohio State University, Columbus, Ohio, September 3, 2010.
- Invited presentations at the Advanced GIScience Research Workshop, Academia Sinica, Taipei, Taiwan, July 14–16, 2010
- Invited presentation at the Space-Time Modeling and Analysis Workshop, Environmental Systems Research Institute (ESRI), Redlands, California, February 22–23, 2010.
- Invited keynote presentation at the International Workshop on GIS for Transportation, Wuhan, China, December 4–6, 2009.
- Invited presentation at the International Conference of GIS in the Humanities and Social Sciences, Academia Sinica, Taipei, Taiwan, October 7–9, 2009.
- Invited presentation at the Second Spatial Socio-cultural Knowledge Workshop, Defense Academy of the United Kingdom, Shrivenham, UK, June 16, 2009.
- Invited presentation at the Microsoft Research Institute (Asia), Beijing, China, May 26, 2009.
- Invited presentation at the Third Specialists Meeting on Information and Communications Technology (ICT), Everyday Life and Urban Change, University of the West of England, Bristol, UK, March 16–19, 2008.
- Invited keynote presentation at the First GIS for Transportation (GIS-T) Symposium of China, Wuhan University, Wuhan, China, June 18–26, 2007.
- Invited presentation at the GPS Tracking, Time-Geography Applications for Activity Modeling and Microsimulation Specialist Meeting, Upham Hotel, Santa Barbara, California, November 10–11, 2005.