

HARVEY J. MILLER

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EDUCATION

1991. Ph.D. (Geography), The Ohio State University, Columbus, Ohio.
1987. M.A. (Geography), Kent State University, Kent, Ohio.
1985. B.A., Honors (Geography), Kent State University, Kent, Ohio.

RESEARCH AND TEACHING INTERESTS

Geographic Information Systems for Transportation (GIS-T), Geographic Information Science (GISci), time geography and activity theory, spatial analysis and geocomputation.

PROFESSIONAL ACTIVITIES**Academic Appointments**

- 2004 – present. Chair, Department of Geography, University of Utah.
2001 - present. Professor, Department of Geography, University of Utah.
1996 – 2001. Associate Professor, Department of Geography, University of Utah
1991 – 1996. Assistant Professor, Department of Geography, University of Utah.

Professional Activities (1998 – present)

- 2005 – 2008. Co-chair, Committee on Geographic Information Science and Applications (ABJ60), Transportation Research Board, U.S. National Academies.
2006 – 2009. Member, Committee on Visualization in Transportation (ABJ95), Transportation Research Board, U.S. National Academies.
2000 – 2003. Board member, University Consortium for Geographic Information Science.
2000 – 2003. Councilor-at-large, North American Regional Science Association.
2000 – 2004. North American Editor, *International Journal of Geographical Information Science*.
1998 – 2000. Chair, Spatial Analysis and Modeling Specialty Group, Association of American Geographers

PUBLICATIONS (1998 – present)**Books**

- In press. Harvey J. Miller (ed.) *Societies and Cities in the Age of Instant Access*, Berlin: Springer.
2006. Martin Raubal, Harvey J. Miller, Andrew U. Frank, and Michael F. Goodchild, (eds.) *Geographic Information Science - Fourth International Conference, GIScience 2006, Münster, Germany, September 2006, Proceedings*. Lecture Notes in Computer Science 4197, Berlin: Springer
2004. Max J. Egenhofer, Christian Freska and Harvey J. Miller (eds.) *Geographic Information Science*, Berlin: Springer, Lecture Notes in Computer Science 3234. ISBN: 3540235582.
2001. Harvey J. Miller and Shih-lung Shaw *Geographic Information Systems for Transportation: Principles and Applications*, New York: Oxford University Press. ISBN: 0195123948.

2001. Harvey J. Miller and Jiawei Han (eds.) *Geographic Data Mining and Knowledge Discovery*, London: Taylor and Francis. ISBN: 0415233690.

Papers in Peer-refereed Journals

- In press. Harvey J. Miller, "Place-based versus people-based geographic information science," *Geography Compass*, in press.
2007. Nobbir Ahmed and Harvey J. Miller, "Time-space transformations of geographic space for exploring, analyzing, and visualizing transportation systems," *Journal of Transport Geography*, 5, 2-17.
2006. Adam Sobek and Harvey J. Miller, "U-Access: A web-based system for routing pedestrians of differing abilities," *Journal of Geographical Systems*, 8, 269-287.
2005. Harvey J. Miller, "Necessary space-time conditions for human interaction," *Environment and Planning B: Planning and Design*, 32, 381-401.
2005. Harvey J. Miller, "A measurement theory for time geography," *Geographical Analysis*, 37, 17-45.
2004. Martin Raubal, Harvey J. Miller and Scott Bridwell, "User-centered time geography for location-based services," *Geografiska Annaler-B*, 86, 245-265.
2004. Harvey J. Miller "Tobler's First Law and spatial analysis," *Annals of the Association of American Geographers*, 94, 284-289.
2003. Harvey J. Miller and Elizabeth A. Wentz, "Representation and spatial analysis in geographic information systems," *Annals of the Association of American Geographers*, 93, 574-594.
2001. Yi-Hwa Wu and Harvey J. Miller, "Computational tools for measuring space-time accessibility within dynamic flow transportation networks," *Journal of Transportation and Statistics* (special issue on methodological issues in accessibility), 4 (2/3), 1-14.
2001. Yi-Hwa Wu, Harvey J. Miller and Ming-Chih Hung, "A GIS-based decision support system for dynamic network congestion analysis and routing," *Journal of Geographical Systems*, 3, 3-24.
2000. Harvey J. Miller and Yi-Hwa Wu, "GIS software for measuring space-time accessibility in transportation planning and analysis," *GeoInformatica*, 4, 141-159.
2000. Harvey J. Miller, "Geographic representation in spatial analysis," *Journal of Geographical Systems*, 2, 55-60.
1999. Harvey J. Miller, "Potential contributions of spatial analysis to geographic information systems for transportation (GIS-T)," *Geographical Analysis*, 31, 373-399.
1999. Harvey J. Miller, "Measuring space-time accessibility benefits within transportation networks: Basic theory and computational methods," *Geographical Analysis*, 31, 187-212.
1998. Harvey J. Miller, "Emerging themes and research frontiers in GIS and activity-based travel demand forecasting," *Geographical Systems*, 5, 189-198.
1998. Sean J. Cannon, Thomas Kontuly and Harvey J. Miller, "GIS-based emergency response planning in a Mexico/U.S. border community," *Applied Geographical Studies*, 2, 111-130.