

Tsou, Ming-Hsiang, Ph.D.

Associate Professor, Department of Geography, San Diego State University

Web site: <http://geography.sdsu.edu/People/Pages/tsou/index.html>

PROFESSIONAL PREPARATION

National Taiwan University	Geography	B.S.	1991
State University of New York at Buffalo	Geography	M.A.	1996
University of Colorado at Boulder	Geography	Ph.D.	2001

APPOINTMENTS

- 2005- present Associate Professor, Department of Geography at San Diego State University.
2000- 2005 Assistant Professor, Department of Geography at San Diego State University.
1999-2000 Teaching Assistant for Introduction to GIScience, University of Colorado at Boulder.

SELECTED PUBLICATIONS

(Five most closely related to proposed project)

- Zhang, T. and Tsou, M.-H. (2009). Developing a grid-enabled spatial Web portal for Internet GIServices and geospatial cyberinfrastructure, *International Journal of Geographical Information Science*. 23(5), pp.605-630.
- Tsou, M.H. (2009). Chapter 48: The Integration of Internet GIS and Wireless Mobile GIS. In *Manual of Geographic Information Systems*, edited by Marguerite Madden, published by the American Society for Photogrammetry and Remote Sensing (ASPRS), pp. 923-933.
- Tsou, M.H. and Sun, C.H. (2007). Mobile GIServices Applications in Disaster Management, Book chapter in *Dynamic and Mobile GIS: Investigating Change in Space and Time*. (edited by Drummond, J, Billen, R., Forrest, D. and Joao, Ed. 2006. published by Taylor & Francis. (Innovations in GIS book series), pp. 213-236.
- Tsou, M.H. (2006). Bridging the Gap: Connecting Internet-based Spatial Decision Support Systems to the Field-based Personnel with Real time Wireless Mobile GIS applications. Book chapter in *Collaborative Geographic Information Systems* (Edited by Shivanand Balram and Suzana Dragicevic). Idea Group, Inc., pp. 316-339.
- Peng, Z.R. and Tsou, M.H. (2003). *Internet GIS: distributed geographic information services for the Internet and wireless networks*. New York: John Wiley and Sons, Inc.

(Five other significant publications)

- Tsou, M. H. and Yanow, K. (2010). Enhancing General Education with Geographic Information Science and Spatial Reasoning. *Urban and Regional Information Systems Association (URISA) Journal*, Special Issue on Geospatial Education and Training. 22(2), 45-54.
- Tsou, M.H. and Curran, J. M. (2008). Chapter 20. User-Centered Design Approaches for Web Mapping Applications: A Case Study with USGS Hydrological Data in the United States. In *International Perspectives on Maps and the Internet*. (edited by M. P Peterson). Berlin: Springer., pp. 301-321.
- Tsou, M.H. (2004). Integrated Mobile GIS and Wireless Internet Map Servers for Environmental Monitoring and Management, (the Special Issue on Mobile Mapping and Geographic Information Systems) in *Cartography and Geographic Information Science*. 31(3), pp. 153-165.
- Tsou, M.H. (2004). Integrating Web-based GIS and On-line Remote Sensing Facilities for Environmental Monitoring and Management. In special issue on the potential of web-based GIS, *the Journal of Geographical Systems*. 6(2), pp. 155-174
- Tsou, M.H. and Buttenfield, B.P. (2002). A Dynamic Architecture for Distributed Geographic Information Services. *Transactions in GIS*. 6(4): 355-381.

SYNERGISTIC ACTIVITIES (Five items)

1. PI (Tsou). National Science Foundation (NSF) Award: “*CDI-Type II: Mapping Cyberspace to Realspace: Visualizing and Understanding the Spatiotemporal Dynamics of Global Diffusion of Ideas and the Semantic Web. Project Period*”: 09/01/2010- 08/31/2014. (**\$1,300,213**, 48 months). (Co-PIs: Dipak K Gupta, Political Science, SDSU; Jean Marc Gawron, Linguistic, SDSU; Brian Spitzberg, Communication, SDSU, Senior Personnel: An Li, Geography). Funding Amount: \$1,300,213.
2. Appointed by the National Academy of Science in 2006 to serve on the committee on “*Research Priorities for the USGS Center of Excellence for Geospatial Information Science*” and completed the NAS report (http://books.nap.edu/openbook.php?record_id=12004) in 2007.
3. Elected as the Chair of the Cartographic Specialty Group in the Association of American Geographers (2007-2008) and the Vice Chair of the Cyber-infrastructure Specialty Group (2011-2012).
4. CO-PI: National Science Foundation, Advanced Technology Education Program (NSF-ATE): “*A Scalable Skills Certification Program in Geographic Information Systems (GIS)*” PI: Dr. Kendra Jeffcoat at San Diego Mesa College. Total Funding Amount: \$749, 847. (2004-2007).
5. Lead a volunteer team to established interactive Web-based mapping services for San Diego Wildfire 2007 to provide Web mapping services for helping local San Diego community (<http://map.sdsu.edu>). Based on the Web server transaction logs, **236,693 unique visitors** visited the Web site during the first week of wildfires. The City of San Diego, the Southern California Burned Area Emergency Response (BAER) team, and the County’s emergency fire information center created a Web link from their wildfire home pages to the PI’s Web site.

COLLABORATORS AND OTHER AFFILIATIONS

(Collaborators and co-editors)

Pior Jankowski	Department of Geography, San Diego State University.
Zhong-Ren Peng	Department of Urban and Regional Planning, University of Florida.
Douglas Stow	Department of Geography, San Diego State University.

(Graduate advisors)

Barbara P. Buittenfield Department of Geography, University of Colorado at Boulder.

(Thesis advisor / post-graduate scholar sponsor) – total 22 graduate students advised.

1. Ick Hoi Kim (Ph.D. student, 2007-present), Department of Geography, San Diego State University.
2. Justin Shepard (Ph.D. student, 2009-present), Department of Geography, SDSU.
3. Tong Zhang, Ph.D. 2007, Associate Professor, Wuhan University of Technology, China.
4. Jennifer Smith (MS student, 2009-present), Department of Geography, SDSU.
5. John Urata (MS student, 2008-present). Department of Geography, SDSU.
6. Diana Smith (MS student, graduated 2010), a GIS consulting company, San Diego
7. Jeremy Hamm (MS student, graduated 2010). The Omega Group (GIS company), San Diego
8. Anthony Howser (MS student, 2005-present). ESRI).
9. Lynn Ford (MS graduated 2009). Unknown.
10. Ting-Hwan Lee (MS graduated 2008, SDSU CS graduate student)
11. Kenneth Garner Smith (MS graduated 2008, GEICO).
12. Kimberly Dodson (MS graduated 2008, California State Department of Transportation),
13. Charlie Adler (MS graduated 2008). Unknown.
14. Jing-Yi Chen (MS graduated 2007, Chia-Yi High School, Taiwan),
15. Andy Gordon (MS graduate 2007, SANDAG),
16. Jung Eun (Jesse) Hong (MS graduated 2007, Ph.D. student at University of Colorado).
17. Susmita Panchal (MS graduated 2006, SDG&E),
18. Palomino, David (MS graduated 2006, ESRI),
19. Judd Curran (MS graduate 2005, Grossmont Community College),
20. Rasmus Larsen (MS graduated 2003, Sweden ESRI),
21. Liang Gou (MA graduated 2003, California Land use department),
22. Yuying Li (MA graduated 2003, EDAW).