

## **Tsou, Ming-Hsiang, Ph.D.**

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**Research Interests:** Internet mapping and distributed GIS applications, Mobile GIS and wireless communication, Software agents and distributed computing technologies, Multimedia cartography and user interface design.

**Courses Taught:** Computerized Map Design (Map and Graphic Methods), Cartographic Design, Introduction to Geographic Information Science, Internet Mapping and Distributed GIServices

### **Education:**

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

(Dissertation: A Dynamic Architecture for Open and Distributed Geographic Information Services)

### **Appointment:**

2000- present    Assistant Professor, Department of Geography at San Diego State University.

2004- present:    Co-chair of the NASA Earth Science Enterprise Data System Working Group (ESEDWG), Standard Process Group (SPG).

**Award:** 2004 Outstanding Faculty Award, San Diego State University

### **Recent Publications:**

- Tsou, M.H. (2004) (accepted). 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*.
- 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
- 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.
- Tsou, M.H. and Battenfield, B.P. (2002). A Dynamic Architecture for Distributed Geographic Information Services. *Transactions in GIS*. 6(4): 355-381.

### **Research Projects:**

- 2004-      CO-PI: National Science Foundation, Advanced Technology Education Program (NSF-ATE): “*A Scalable Skills Certification Program in Geographic Information Systems (GIS)*” (Three years, 2004-2007, started from October 1, 2004).
- 2004-      CO-PI: City of San Diego. “*The San Diego Watershed Common Grounds Project*”. (30 months, started from July 1, 2004 to 2006).
- 2003-      CO-PI: NASA Research, Education and Applications Solution Network (REASoN) Project: “*A Border Security Decision Support System Driven by Remotely Sensed Data Inputs*”. (Five years, 2003-2008).