

Dr. Yanfen Le

Department of Geology/Geography
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EDUCATION

PhD, Geography, University of Georgia, 2005
MS, Wuhan Technical University of Surveying & Mapping, China, 1996
BS, Wuhan Technical University of Surveying & Mapping, China, 1993

EMPLOYMENT

2005-present, Assistant Professor, Northwest Missouri State University
2001-2005, Teaching and Research Assistant, University of Georgia
1996-2001, Engineer, Shanghai Municipal Institute of Surveying & Mapping, Shanghai, China

RESEARCH INTERESTS

GIScience, especially temporal GIS and Internet GIS; Geographic Visualization; Object Based Image Analysis; Spatial Database

TEACHING EXPERIENCE

Assistant Professor, Northwest Missouri State University, Geology/Geography

- Introduction to Geography (32-101)
- Maps and Map Interpretation (32-201)
- Cartography (32-362)
- Senior Seminar in Geography (32-499)
- Principles of GIS (32-545)
- Advanced GIS (32-565)
- SPT: Internet GIS (32-611-02)
- GIS Database Design (32-650)
- Trends in GIS (32-660)
- Issues in Cartographic Design (32-662)

Teaching Assistant, University of Georgia, Geography

- GEOG 4370/6370L – GIS Lab
- GEOG 4470/6470L – Spatial Analysis in GIS Lab
- GEOG 4410/6410L – Cartographic Visualization Lab
- GEOG 4330/6330L – Aerial Photographs Lab
- GEOG 4350/6350L – Remote Sensing Lab

PUBLICATIONS

Peer-reviewed

1. Le, Y., 2005. A prototype temporal GIS for multiple spatio-temporal representations. *Cartography and Geographic Information Science*, **32**(4), 315-329.
2. Le, Y. and Chen, J., 1997. Organizing spatio-temporal data of land subdivision with temporal land parcels, *Journal of Wuhan Technical University of Surveying & Mapping*, **22**(3), 222- 228. Wuhan, China.

Book chapter

3. Le, Y. and Usery, E. L., 2009. Adding time to GIS. In M. Madden, ed., *Manual of Geographic Information Systems*. Bethesda, MD: ASPRS Publication, 311-332.

Proceeding

4. Le, Y., 2010. Visualization of dynamics in linear referenced transportation data, *Proceedings of the International Conference of ASPRS/CaGIS 2010*, Orlando, FL 15-18 November 2010.
5. Le, Y., 2008. Implementing the General Representation of Geo-atom in a Feature- based Temporal Framework, *Proceedings of the 5th International Conference, GIScience 2008*, Park City, UT 22-26 September 2008.
6. Le, Y. 2007. Uncertainty in temporal geographic information, *Proceedings of the 7th International Workshop on Geographic Information System (IWGIS'07)*, Beijing, China 14-15 September, 2007.
7. Chen, J. and Le, Y., 1996. Defining and representing temporal objects for describing the spatio-temporal process of land subdivision, *International Archives of ISPRS*, XXXI-B2, pp.48-56, Vienna.
8. Chen, J. and Le, Y., 1995. Describing land subdivision process with extended space-time composite model, *Proceedings of LIESMARS'4*, Wuhan Technical University of Surveying & Mapping, China.

PRESENTATIONS

1. Le, Y., 2011. Challenges in Data Integration for Spatiotemporal Analysis presented at AAG 2011 Annual Conference, 12-16 April 2011 Seattle, Washington.
2. Le, Y., 2010. Visualization of Dynamics in Linear Referenced Transportation Data, presented at the ASPRS/CaGIS 2010 Specialty Conference, November 15-18, 2010, Orlando, FL.
3. Le, Y., 2010. Object-Based Analysis of Teasel in Roadside Vegetation Using NAIP Data, presented at AAG 2010 Annual Conference, 13-18 April 2010 Washington, D.C.
4. Le, Y., 2008. Implementing the General Representation of Geo-atom in a Feature- based Temporal Framework, presented at the 5th International Conference of GIScience 2008, 22-26 September 2008 Park City, UT.

5. Le, Y., 2008. Mapping invasive weeds from roadside vegetation using NAIP data, presented at ASPRS 2008 Annual Conference, 28 April - 2 May 2008 Portland, OR.
6. Le, Y., 2008. A hybrid featured-based temporal framework for phenomena with both object- and field-characteristics, will present at AAG 2008 Annual Conference, 15-19 April 2008 Boston MA.
7. Le, Y., 2007. Uncertainty in temporal geographic information, presented at the 7th International Workshop on Geographic Information System, Beijing, China September 14-15, 2007.
8. Le, Y., 2007. Discrete time in base geographic data: representation, implementation, and visualization, presented at AAG 2007 Annual Conference for Nystrom Paper Competition, San Francisco, CA April 2007.
9. Le, Y. and Hodler, T. W., 2006. Uncertainty in spatio-temporal change extracted from existing data, presented at AAG 2006 Annual Conference, Chicago, IL March 2006.
10. Le, Y., 2005. A prototype temporal GIS for multiple spatio-temporal representations, presented at Auto-Carto 2005, Las Vegas, NV March 2005.
11. Le, Y., 2004. A feature-based temporal representation and its implementation with object-relational schema for base geographic data in object-based form, presented at UCGIS Assembly, Adelphi, MD October 2004.
12. Le, Y., 2004. Multiple representations of time for base geographic data, presented at AAG 2004 annual conference for GIS Specialty Group student paper competition, Philadelphia, PA March 2004.
13. Le, Y., 2003. Shanghai in real travel time space based on public transportation 2002, presented at SEDAAG 2003, Charlotte, NC November 2003.

GRANTS

External

- 2011, “Development of an Interactive Website for the Midwest Fish Habitat Partnerships”. PI. U.S. Fish and Wildlife Service, \$24,000.

Internal

- 2011, “Accuracy Assessment of Teasel Mapping Using USDA NAIP Data”, PI. Applied Research Grant, Northwest Missouri State University, \$1,027.
- 2011, Presentation titled “Visualization of Dynamics in Linear Referenced Transportation Data”. PI. Faculty Research Grant, North Missouri State University, \$ 1,158.
- 2010, Dean’s Research Assistance Award, Northwest Missouri State University, Maryville, MO, \$1,187.
- 2010, Presentation titled “Object-Based Analysis of Teasel in Roadside Vegetation Using NAIP Data”. PI. Faculty Research Grant, North Missouri State University, \$2,015.
- 2009, Dean’s Research Assistance Award, Northwest Missouri State University, Maryville, MO, \$1,996.99.
- 2008, “Visualization of Dynamics in Transportation Data Represented in Linear

- Referencing”, PI. Faculty Research Grant, North Missouri State University, \$351.
- 2008, "Detection of Invasive Weeds in Missouri Roadside Vegetation Using Remote Sensing Technology", PI, (Co-PI: Dr. Kegode, G.). Applied Research Grant, Northwest Missouri State University, \$6,334 (additional \$810 from Agriculture and \$200 from Geology/Geography Department).
 - 2008. Presentation titled “A Hybrid Feature-Based temporal framework for phenomena with both object- and field-characteristics”. PI, (Co-PI: Dr. Zheng, W.) Faculty Research Grant, North Missouri State University, \$1,883.
 - 2007, "A Hybrid Feature-Based Temporal Framework for Fields and Objects", PI, (Co-PI: Dr. Zheng, W), Faculty Research Grant, Northwest Missouri State University, \$1,300.
 - 2007. Dean’s Research Assistance Award, Northwest Missouri State University, Maryville, MO, \$526 (additional \$200 from Geology/Geography Department).
 - 2007, Presentation titled "Uncertainty in Spatio-Temporal Change Extracted from Existing Data", PI, Faculty Research Grant, Northwest Missouri State University, \$1,789.
 - 2006, "Uncertainty in Spatio-Temporal Change Extracted from Existing Data", PI, Faculty Research Grant, Northwest Missouri State University, \$1,400.

AWARDS

- 2010, Quality Matters recognized for course “SPT: Internet GIS (32-611-02)”.
- 2009, CITE Fellowship, North Missouri State University.
- 2007, Finalist of J. Warren Nystrom Award. Association of American Geographers.
- 2005, Finalist of AAG Cartography and Geospatial Digital Technologies Student Illustrated Paper Competition.
- 2005, UGA Graduate School Travel Award.
- 2004, UGA Graduate School’s Future Leaders Program.
- 2004, UGA Geography Department Travel Support.
- 2004, Finalist of AAG GIS Specialty Group student paper competition.
- 2004, UGA Graduate School Travel Award.

PROFESSIONAL AFFILIATIONS

- Member of Association of American Geographers
- Member of American Society of Photogrammetry and Remote Sensing
- Member of Cartography and Geographic Information Society
- Member of Kansas City Arc/Info User Group
- Reviewer of International Journal of Geographical Information Science (2006)
- Reviewer of Journal of Cartography and Geographic Information Science (2005, 2009)