

CURRICULUM VITAE

NAME: Jankowski, Piotr

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EDUCATION BEYOND HIGH SCHOOL:

Ph.D., 1989, Department of Geography, University of Washington

M.S., 1979, Department of Econometrics and Operations Research, Poznan University of Economics

POSITIONS HELD

2013 – present, Professor and Chair, Department of Geography, San Diego State Univ. (SDSU)

2003 - present, Professor and Co-director, Center for Earth Systems Analysis Research, SDSU

2003 – present, Coordinator of GIS Certificate Program, San Diego State University

2001 - 2002, Professor, Institute for Geoinformatics, University of Muenster, Germany

2000 - 2001 Professor and Interim Chair, Department of Geography, University of Idaho

1995 - 2000, Associate Professor, Department of Geography, University of Idaho

1989 - 1995, Assistant Professor, Department of Geography, University of Idaho

1985 - 89, Consultant, Center for Social Studies, Computation and Research, University of Washington

1979 - 84, Teaching Associate, Institute for Economics and Management of Tourism, Poznan, Poland

VISITING APPOINTMENTS

2015 Visiting Professor, Carinthia University of Applied Sciences, Austria

2013 Visiting Professor, Federal University of Minas Gerais, Brazil

2012 Visiting Professor, University of Cagliari, Italy

2011 Visiting Professor, University of Otago, New Zealand

2009 Visiting Professor, University College Dublin, Ireland

2008 Visiting Professor, Adam Mickiewicz University, Poznan, Poland

2000 Visiting Scholar, Fraunhofer Institute, Sankt Augustin, Germany

1999 Visiting Scholar, Fraunhofer Institute, Sankt Augustin, Germany

PUBLICATIONS: (H-index = 35, based on Google Scholar)

Refereed Publications:

1. Seidl, D., Jankowski, P., Clarke, K. 2017. Privacy and false identification risks in geomasking techniques. *Geographical Analysis*, 25, DOI: 10.1111/gean.12144, IF: 1.905
2. Erlacher, C., Jankowski, P., Blaschke, T., Paulus, G., Anders, K-H. (2017). A GPU-based Parallelization Approach to conduct Spatially-Explicit Uncertainty and Sensitivity Analysis in the Application Domain of Landscape Assessment. In: A., Car, J., Strobl, T., Jekel, G., Griesebner (Eds.). *GI_Forum Journal 2017 (1)*, 44-58, DOI: [10.1553/giscience2017_01_s44](https://doi.org/10.1553/giscience2017_01_s44)
3. Jankowski, P., Czepkiewicz, M., Mlodkowski, M., Zwolinski, Z., and Wojcicki. 2017. Evaluating the scalability of public participation in urban land use planning: A comparison of Geoweb methods with face-to-face meetings. *Environment and Planning B*; DOI: [10.1177/2399808317719709](https://doi.org/10.1177/2399808317719709), IF: 1.537
4. Czepkiewicz, M., Jankowski, P., Mlodkowski, M. 2017. Geo-questionnaires in urban planning: recruitment methods, participant engagement, and data quality. *Cartography and Geographic Information Science*, 44(6): 551-567, <http://dx.doi.org/10.1080/15230406.2016.1230520> IF: 2.224
5. Czepkiewicz, M., Brodka, C., Jankowski, P., Kaczmarek, T., Zwolinski, Z., Mikula, L., Bakowska, E., Mlodkowski, M., and Wojcicki, M. 2016. Public participation GIS for sustainable mobility planning: methods, applications, and challenges. *Rozwoj Regionalny i Polityka Regionalna*, 35: 9-35.

6. Bakowska, E., Kaczmarek, T., Jankowski, P., Zwolinski, Z., Mikula, L., Czepkiewicz, M., and Brodka, C. 2016. Geo-questionnaire in urban planning – preliminary results of experimental application in Poland. *Rozwoj Regionalny i Polityka Regionalna*, 35: 37-54.
7. Mlodkowski, M., Walczak, D., Jankowski, P. 2016. User-centered design and agile programming methods in the process of creating a geoportal supporting public participation in urban planning. *Annals of Geomatics*, 14(5): 597-608
8. Moura, C.A., Jankowski, P. 2016. Contribuições aos Estudos de Análises de Incertezas como Complementação as Análises Multicritérios – “Sensitivity Analysis for Suitability Evaluation”. *Revista Brasileira de Cartografia*, 68(4): 665-684
9. Iwaniak, A., Kaczmarek, I., Strzelecki, M., Lukowicz, M., Jankowski, P. 2016. Enriching and improving the quality of linked data with GIS. *Open Geosciences*, 8(1): 323-336, <https://doi.org/10.1515/geo-2016-0020> IF: 0.898
10. Andrienko, G., Andrienko, N., Fuchs, G., Jankowski, P. 2016. Scalable and privacy-respectful interactive discovery of place semantics from human mobility traces. *Information Visualization*, 15(2): 117-153, <http://dx.doi.org/10.1177/1473871615581216> IF: 0.639
11. Salap-Ayca, S., Jankowski, P. 2016. Integrating local multi-criteria evaluation with spatially explicit uncertainty-sensitivity analysis. *Spatial Cognition & Computation*, 16(2): 106-132, <http://dx.doi.org/10.1080/13875868.2015.1137578> IF: 0.760
12. Seidl, D.E., Jankowski, P., Tsou, M-H. 2016. Privacy and spatial pattern preservation in masked GPS trajectory data. *International Journal of Geographical Information Science*, 30(4): 785-800, <http://dx.doi.org/10.1080/13658816.2015.1101767> IF: 2.065
13. Jankowski, P., Czepkiewicz, M., Mlodkowski, M., Zwolinski, Z. 2015. Geo-questionnaire: A Method and Tool for Public Preference Elicitation in Land Use Planning. *Transactions in GIS*, 20(6): 903-924 <http://dx.doi.org/10.1111/tgis.12191> IF: 2.252
14. Swobodzinski, M., Jankowski, P. 2015. The role of location and cost in individual choices of transportation improvement projects. *Professional Geographer*, 67(4): 527-540, <http://dx.doi.org/10.1080/00330124.2015.1069123> IF: 1.624
15. Swobodzinski, M., Jankowski, P. 2015. Evaluating user interaction with a web-based group decision support system: A comparison between two clustering methods. *Decision Support Systems*, 77: 148-157, <http://dx.doi.org/10.1016/j.dss.2015.07.001> IF: 3.271
16. Seidl, D.E., Paulus, G., Jankowski, P., Regenfelder, M. 2015. Spatial obfuscation methods for privacy protection of household-level data. *Applied Geography*, 63: 253-263, <http://doi.org/10.1016/j.apgeog.2015.07.001> IF: 3.162
17. Czepkiewicz, M., Jankowski, P. 2015. Spatial analyses in research on quality of life in cities (in Polish). *Ruch Prawniczy, Ekonomiczny i Socjologiczny*, 77(1): 101-117, <http://dx.doi.org/10.14746/rpeis.2015.77.1.6>
18. Feizizadeh, B., Roodposhti, M., Jankowski, P., Blaschke, T. 2014. A GIS-based extended fuzzy multi-criteria evaluation for landslide susceptibility mapping. *Computers & Geosciences*, 73(2014): 208-221, <http://doi.org/10.1016/j.cageo.2014.08.001> IF: 2.540
19. Jankowski, P., Brown, B. 2014. Health care accessibility modeling: Effects of change in spatial representation of demand for primary health care services. *Quaestiones Geographicae*, 33(3): 39-53, <https://doi.org/10.2478/quageo-2013-0028> IF: 0.780

20. Swobodzinski, M., Jankowski, P. 2014. Understanding User interaction patterns within online systems for public-participation transportation planning. *Transactions in GIS*, 18(3): 401-420, <http://dx.doi.org/10.1111/tgis.12099> IF: 1.537
21. Ligmann-Zielinska, A., Jankowski, P. 2014. Spatially-explicit integrated uncertainty and sensitivity analysis of criteria weights in multicriteria land suitability evaluation. *Environmental Modelling & Software*, 57: 235-247, <http://doi.org/10.1016/j.envsoft.2014.03.007> IF: 4.528
22. Jankowski, P., Fraley, G, Pebesma, E. 2014. An exploratory approach to spatial decision support. *Computers Environment and Urban Systems*, 45 (2014): 101-113, <http://doi.org/10.1016/j.compenvurbsys.2014.02.008> IF: 2.847
23. Feizizadeh, B., Jankowski, P. Blaschke, T. 2014. A GIS based spatially-explicit sensitivity and uncertainty analysis approach for multi-criteria decision analysis. *Computers & Geosciences*, 64(3): 81-95, <http://doi.org/10.1016/j.cageo.2013.11.009> IF: 2.540
24. Andrienko, G., Andrienko, N., Bosch., H., Ertl, T., Fuchs, G., Jankowski, P., Thom, D. 2013. Discovering thematic patterns in geo-referenced tweets through space-time visual analytics. *Computing in Science & Engineering*, 15(3): 72-82, <http://doi.ieeecomputersociety.org/10.1109/MCSE.2013.70> IF: 1.361
25. Hisakawa, N., Jankowski, P., Paulus, G. 2013. Mapping the porosity of international border to pedestrian traffic: a comparative data classification approach to a study of the border region in Austria, Italy, and Slovenia. *Cartography and Geographic Information Science*, 40(1): 18-27, <http://dx.doi.org/10.1080/15230406.2013.762141> IF: 2.224
26. Ligmann-Zielinska, A., Jankowski, P. 2012. Impact of proximity-adjusted preferences on rank-order stability in geographical multicriteria decision analysis. *Journal of Geographical Systems*, 14(2): 167-187, <http://dx.doi.org/10.1007/s10109-010-0140-6> IF: 1.175
27. Weeks, J., Stoler, J. Jankowski, P. 2011. Who's crossing the border: new data on undocumented immigrants to the United States. *Population, Space and Place*, 17(1): 1-26, <http://dx.doi.org/10.1002/psp.563> IF: 1.895
28. Jankowski, P. Andrienko, G., Andrienko, N., Kisilevich, S. 2010. Discovering landmark preferences and movement patterns from photo postings. *Transactions in GIS*, 14(6): 833-852, <http://dx.doi.org/10.1111/j.1467-9671.2010.01235.x> IF: 1.537
29. Ligmann-Zielinska, A., Jankowski, P. 2010. Exploring normative scenarios of land use development decisions with an agent-based simulation laboratory. *Computers, Environment and Urban Systems*, 34(5): 409-423, <http://doi.org/10.1016/j.compenvurbsys.2010.05.005> IF: 2.847
30. Gorsevski P.V, Jankowski P. 2010. An optimized solution of multi-criteria evaluation analysis of landslide susceptibility using fuzzy sets and Kalman filter. *Computers and Geosciences*, 36: 1005-1020, <http://doi.org/10.1016/j.cageo.2010.03.001> IF: 2.540
31. Shahumyan, H., Jankowski, P. 2010. Integration of the MOLAND model with GeoChoicePerspectives spatial decision support software for scenario evaluation. *PROCEEDINGS OF AGILE 2010 The 13th AGILE International Conference on Geographic Information Science*, Editors: Marco Painho, Maribel Yasmina Santos and Hardy Pundt, ISBN: 978-989-20-1953-6
32. Jankowski, P. 2009. Towards participatory geographic information systems for community-based environmental decision making. *Journal of Environmental Management*, 90(6): 1966-1971. <http://dx.doi.org/10.1016/j.jenvman.2007.08.028> IF: 4.049

33. Andrienko, G., Andrienko, N., Jankowski, P., Kraak, M-J. 2009. Special issue: geospatial visual analytics. *Cartography and Geographical Information Science*, 36(3): 223-224, <http://dx.doi.org/10.1559/152304009788988323> IF: 2.224
34. Ligmann-Zielinska, A., Jankowski, P. 2008. A framework for sensitivity analysis in spatial multiple criteria evaluation. *Lecture Notes in Computer Science* No. 5266, Eds. T.J., Cova, H.J. Miller, K. Beard, A.U. Frank, Proceedings of 5th International Conference, GIScience 2002, Park City, Utah, USA, September 2008, Springer Verlag, Berlin-Heidelberg, p.217-233, http://dx.doi.org/10.1007/978-3-540-87473-7_14
35. Owen, A, Jankowski, P, Williams, B., Wulforth, J.D. 2008. Improving public participation in resource protection: Case studies on north-central Idaho. *Journal of Environmental Policy & Planning*, 10(3): 255-269, <http://dx.doi.org/10.1080/15239080802242738> IF: 1.745
36. Jankowski, P., Ligmann-Zielinska, A., Swobodzinski, M. 2008. Choice Modeler: a web-based spatial multiple criteria evaluation tool. *Transaction in GIS*, 12(4): 541-561, <http://dx.doi.org/10.1111/j.1467-9671.2008.01111.x> IF: 1.537
37. Gorsevski PV, Jankowski P. 2008. Discerning landslide susceptibility using rough sets. *Computers, Environment and Urban Systems*, 32(1): 53-65, <http://doi.org/10.1016/j.compenvurbsys.2007.04.001> IF: 2.847
38. Ligmann-Zielinska, A., Church, R., Jankowski, P. 2008. Spatial optimization as a generative technique for sustainable multiobjective landuse allocation. *International Journal of Geographical Information Science*, 22(6): 601-622, <http://www.tandfonline.com/doi/abs/10.1080/13658810701587495> IF: 2.065
39. Hope, A., Decker, J., Jankowski, P., 2008. Utility of gridded rainfall for IHACRES daily river flow predictions in Southern California watersheds. *Journal of the American Water Resources Association*, 44(4): 1-8. <http://dx.doi.org/10.1111/j.1752-1688.2008.00172.x> IF: 1.659
40. Jankowski, P., Tsou, M-H., Wright, D.R. 2007. Applying internet geographic information system for water quality monitoring. *Geography Compass* 1(6): 1315-1337, <http://dx.doi.org/10.1111/j.1749-8198.2007.00065.x>
41. Ligmann-Zielinska, A, Jankowski, P. 2007. Agent-based models as laboratories for spatially explicit planning policies. *Environment and Planning B*: 34(2): 316-335, <http://dx.doi.org/10.1068/b32088> IF: 1.582
42. Andrienko, G., Andrienko, N., Jankowski, P., Keim, D., Kraak, M-J., MacEachren, A., and S. Wrobel. 2007. Geovisual analytics for spatial decision support: setting the research agenda. *International Journal of Geographical Information Systems*, 21(8): 839-857, <http://dx.doi.org/10.1080/13658810701349011> IF: 2.065
43. Owen, A, Jankowski, P, Williams, B. 2006. Spatial data for water resource protection: field study on a North-central Indian Idaho reservation. *Journal of Environmental Assessment Policy and Management*, 8(4): 431-450, <http://dx.doi.org/10.1142/S146433320600258X>
44. Nyerges, T., P. Jankowski, K. Ramsey and D. Tuthill, 2006. Collaborative water resource decision support: results of a field experiment. *Annals of the Association of American Geographers*, 96(4): 699-725, <http://dx.doi.org/10.1111/j.1467-8306.2006.00512.x> IF: 3.196
45. Nyerges, T., Brooks, T., Jankowski, P., Rutherford, G.S., and Young, R. 2006. Web portal implementation to support public participation in transportation decision making. *ACM International Conference Proceedings Series*, 151: 67-68, <http://dx.doi.org/10.1145/1146598.1146622>

46. Gorsevski P.V., Jankowski, P, Gessler, P.E. 2006. An heuristic approach for mapping landslide hazard by integrating fuzzy logic with analytic hierarchy process. *Control and Cybernetics* 35(1): 121-146, IF: 0.44
47. Jankowski, P., T. Nyerges, S. Robischon, K. Ramsey and D. Tuthill, 2006. Design Consideration and Evaluation of a Collaborative, Spatio-Temporal Decision Support System. *Transactions in GIS*, 10(3): 335-354, <http://dx.doi.org/10.1111/j.1467-9671.2006.01001.x> IF: 1.537
48. Gorsevski P.V., Jankowski P, Gessler P.E. 2005. Spatial prediction of landslide hazard using fuzzy k-means and Dempster-Shafer theory. *Transactions in GIS*, 9(4): 455-474, <http://dx.doi.org/10.1111/j.1467-9671.2005.00229.x> IF: 1.537
49. Gorsevski, P.V., P.E.Gessler, and P. Jankowski. 2003. Integrating a fuzzy k-means classification and a Bayesian approach for spatial prediction of landslide hazard. *Journal of Geographical Systems*, 5(3): 223- 251, <http://dx.doi.org/10.1007/s10109-003-0113-0> IF: 1.175
50. Andrienko, G, N. Andrienko, and P. Jankowski. 2003. Building spatial decision support tools for individuals and groups. *Journal of Decision Systems*, 12(2): 193-208, <http://dx.doi.org/10.3166/jds.12.193-208>
51. Jankowski, P. and T. Nyerges. 2003. Toward a framework for research on geographic information-supported participatory decision-making. *URISA Journal*, 15(1): 39-47, <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.199.7795> IF: 0.92
52. Vert, G., M. Stock, P. Jankowski, and P. Gessler. 2002. An architecture for the management of GIS data files. *Transactions in GIS* 6(3): 259-275, <http://dx.doi.org/10.1111/1467-9671.00110> IF: 1.537
53. Nyerges, T, Jankowski, P., and C. Drew. 2002. Data strategies for social-behavioral research in participatory geographic information science. *International Journal of Geographic Information Science*, 16(1): 1-22, <http://dx.doi.org/10.1080/13658810110075987> IF: 2.065
54. Jankowski, P. and T. Nyerges. 2001. GIS-Supported collaborative decision making: results of an experiment. *Annals of the Association of American Geographers*, 91(1): 48-70. <http://dx.doi.org/10.1111/0004-5608.00233> IF: 3.196
55. Jankowski, P., N. Andrienko, G. Andrienko. 2001. Map-centered exploratory approach to multiple criteria spatial decision making. *International Journal of Geographical Information Science*, 15(2): 101-127, <http://dx.doi.org/10.1080/13658810010005525> IF: 2.065
56. Jankowski, P., M. Stasik, M.A. Jankowska. 2001. A map browser for an Internet-based GIS Data repository. *Transactions in GIS*, 5(1): 5-18, <http://dx.doi.org/10.1111/1467-9671.00064> IF: 1.537
57. Jankowski, P. 2000. Collaborative spatial decision making in environmental restoration management: an experimental approach. *Journal of Hydroinformatics*, 2(3): 197-206, IF: 1.180
58. Jankowska, M. A. and P. Jankowski. 2000. Is this a geolibrary: a case of Idaho geospatial data center. *Information Technology and Libraries*, 19(1): 4-10, IF: 0.81
59. Jankowski, P. and M. Stasik, 1997. Spatial understanding and decision support system: a prototype for public GIS. *Transactions in GIS*, 2(1): 73-84, <http://dx.doi.org/10.1111/j.1467-9671.1997.tb00006.x> IF: 1.537
60. Jankowski, P., and M. Stasik, 1997. Architecture for space and time distributed collaborative spatial decision making. *Journal of Geographic Information and Decision Analysis*, electronic journal, accessed at: http://publish.uwo.ca/~jmalczew/gida_1/Jankowski/Jankowski.htm

61. Jankowski, P., T. Nyerges, A. Smith, T.J. Moore, and E. Horvath. 1997. Spatial group choice: a spatial decision support tool for collaborative spatial decision making. *International Journal of Geographical Information Systems*, 11(6): 577-602, <http://dx.doi.org/10.1080/136588197242202> IF: 2.065
62. Nyerges, T. and P. Jankowski, 1997. Enhanced adaptive structuration theory: a theory of GIS-supported collaborative decision making. *Geographical Systems*, 4(3): 225-257, IF: 1.175
63. Haddock, G. and P. Jankowski, 1997. A visual programming language for spatial modeling in GIS. *Transactions in GIS*, 1(3): 177-188, <http://dx.doi.org/10.1111/j.1467-9671.1996.tb00043.x> IF: 1.537
64. Hickey, R. and P. Jankowski. 1996. GIS and environmental decision making to aid smelter reclamation planning. *Environment and Planning A*, 29(1): 5-19, <http://dx.doi.org/10.1068/a290005> IF: 2.351
65. Jankowski, P. and G. Ewart, 1996. Spatial decision support system for health practitioners: selecting a location of rural health practice. *Geographical Systems*, 3: 279-299, IF: 1.175
66. Kackley, J. and P. Jankowski, 1996. Graphical modeling system supporting dynamic processing in a raster GIS. *Computers, Environment, and Urban Systems*, 19 (5/6): 391-407, [https://doi.org/10.1016/0198-9715\(95\)00021-6](https://doi.org/10.1016/0198-9715(95)00021-6) IF: 2.847
67. Jankowski, P. 1995. Integrating GIS and multiple criteria decision making methods. *International Journal of Geographical Information Systems*, 9(3): 252-273, <http://dx.doi.org/10.1080/02693799508902036> IF: 2.065
68. Hickey, R., Smith A., and Jankowski, P. 1994. Slope length calculations from a DEM within ARC/INFO GRID. *Computers, Environment and Urban Systems*, 18(5): 365-380, [https://doi.org/10.1016/0198-9715\(94\)90017-5](https://doi.org/10.1016/0198-9715(94)90017-5) IF: 2.065
69. Jankowski, P., and Richard, L. 1994. Integration of GIS-based suitability analysis and multicriteria evaluation in a spatial decision support system for site selection. *Environment and Planning B*, 21(6): 323-340, <http://dx.doi.org/10.1068/b210323> IF: 1.582
70. Haddock, G., and Jankowski, P. 1993. Integrating nonpoint source pollution modeling with a geographic information system. *Computers, Environment and Urban Systems*, 17(5): 437-451, [https://doi.org/10.1016/0198-9715\(93\)90039-8](https://doi.org/10.1016/0198-9715(93)90039-8) IF: 2.065
71. Jankowski, P., and ZumBrunnen, C. 1993. Towards a modeling support system for simulation of water quality. *Journal of Computing in Civil Engineering*, 7(3): 354-371, [http://dx.doi.org/10.1061/\(ASCE\)0887-3801\(1993\)7:3\(354\)#sthash.m2IkFF1o.dpuf](http://dx.doi.org/10.1061/(ASCE)0887-3801(1993)7:3(354)#sthash.m2IkFF1o.dpuf) IF: 1.920
72. Jankowski, P. 1992. An architecture for a modeling support system for simulation of environmental processes. *Computers and Geosciences*, 18(8): 1075-1093, [https://doi.org/10.1016/0098-3004\(92\)90022-J](https://doi.org/10.1016/0098-3004(92)90022-J) IF: 2.540
73. Rozenblit, J., and Jankowski, P. 1991. An integrated framework for knowledge-based modeling and simulation of natural systems. *Simulation*, 57(3): 152-165, <http://dx.doi.org/10.1177/003754979105700304> IF: 0.640
74. Jankowski, P., and Rozenblit, J. 1990. DEVS-scheme simulation of stream water quality. *ACM SIGSIM Simulation Digest*, 21(1): 20-28, <http://dx.doi.org/10.1145/122224.122227>
75. Nyerges, T., and Jankowski, P. 1989. A knowledge base for map projection selection. *The American Cartographer*, 16(1): 29-38, <http://www.tandfonline.com/doi/abs/10.1559/152304089783875622> IF: 2.224

76. Jankowski, P., and Nyerges, T. 1989. Design consideration for MaPKBS - Map Projection Knowledge Based System. *The American Cartographer*, 16(2): 85-95, <http://www.tandfonline.com/doi/abs/10.1559/152304089783875514> IF: 2.224
77. Jankowski, P. 1989. Mixed-data multicriteria evaluation for regional planning, a systematic approach to the decision-making process. *Environment and Planning A*, 21(3): 349-362, <http://dx.doi.org/10.1068/a210349> IF: 2.351
78. Jankowski, P. 1984. An optimization model of a system of sewage treatment plants on the Warta River (in Polish). *Gospodarka Wodna*, 12: 374-377
79. Jankowski, P. 1983. Economic and technical considerations of using the Warta River for tourist and recreational purposes (in Polish), *Kronika Wielkopolska*, 2: 111-121

Books:

1. Nyerges, T., and P. Jankowski. 2009. *Urban and Regional GIS: a decision support approach*. Guilford Press.
2. Jankowski, P., and T. Nyerges. 2001. *GIS for Group Decision Making*. Taylor & Francis, London.

Book Chapters:

1. Jankowski, P. 2017. Multicriteria decision-making. *The International Encyclopedia of Geography: People, the Earth, Environment, and Technology*. John Wiley & Sons. <http://onlinelibrary.wiley.com/book/10.1002/9781118786352>
2. Czepkiewicz, M., Młodkowski, M., Zwolinski, Z., Jankowski, P. 2015. Eliciting resident's preferences for urban function change using online geo-questionnaires. In: *Geographic Information Science as an Enabler of Smarter Cities and Communities, Lecture Notes in Geoinformation and Cartography*, Springer.
3. Andrienko, G., Andrienko, N., Fuchs., Jankowski, P. 2015. Visual analytics methodology for scalable and privacy-respectful interactive discovery of place semantics from episodic mobility data. In: *Machine Learning and Knowledge Discovery in Databases*. Vol. 9286 of the series Lecture Notes in Computer Science, pp. 254-258, http://dx.doi.org/10.1007/978-3-319-23461-8_25
4. Borges, J., Jankowski, P., Davis Junior, C.A. 2015. Crowdsourcing for geodesign: opportunities and challenges for stakeholder input in urban planning. In: Claudia Robbi Sluter; Carla Bernadete Madureira Cruz; Paulo Márcio Leal de Menezes. (Org.). *Cartography - Maps Connecting the World*. 1ed. Switzerland: Springer International Publishing, 2015, v. 1, p. 1511-1519, http://dx.doi.org/10.1007/978-3-319-17738-0_25
5. Moura, A.C.M, Jankowski, P. Contribuições aos estudos de análises de incertezas como complementação às análises multicritérios - "Sensitivity Analysis to Suitability Evaluation". *Revista Brasileira de Cartografia – Edição Especial XXVI CBC*, 2014. (in press).
6. Jankowski, P. 2015. Multi-criteria decision making. In *International Encyclopedia of Geography: People, the Earth, Environment, and Technology*, edited by Association of American Geographers (New York: John Wiley & Sons), <http://dx.doi.org/10.1002/9781118786352.wbieg0903>
7. Vrotsou, K., Andrienko, N., Andrienko, G., Jankowski, P. 2011. Exploring city structure from georeferenced photos using graph centrality measures. In Gunopulos, D., Hofman, T., Malerba, D., and

- M. Vazirgiannis (eds), *Machine Learning and Knowledge Discovery in Databases*, Lecture Notes in Computer Science, Springer Verlag, Vol. 6913/2011, pp.654-657, http://dx.doi.org/10.1007/978-3-642-23808-6_50
8. Jankowski, P. 2011. Designing participatory geographic information systems. In Nyerges, T.L., Couclelis, H., and R. McMaster (eds), *The Sage Handbook of GIS and Society*, pp. 347-360.
 9. Gorsevski P. V, Gessler P. E, Jankowski P, 2010. A fuzzy k -means classification and a Bayesian approach for spatial prediction of landslide hazard. In Fischer MM and Getis A (eds), *Handbook of Applied Spatial Analysis*, Springer, pp. 653-684, http://dx.doi.org/10.1007/978-3-642-03647-7_31
 10. Morris, A., Jankowski, P., Bourgeois, B.S., Petry, F.E. 2010. Decision support classification of geospatial and regular objects using rough and fuzzy sets. *Uncertainty Approaches for Spatial Data Modeling and Processing: A Decision Support Perspective*. Eds. Kacprzyk, J., Yazici, A., Petry, F.E. Springer-Verlag, Berlin, pp. 3-8, http://dx.doi.org/10.1007/978-3-642-10663-7_1
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22. Jankowski, P. and T. Nyerges. 2001. Using GeoChoice perspectives in collaborative spatial decision making. In Schmoldt, D.L., Kangas, J., Mendoza, G.A. and Pesonen, M.I. (eds.) *The Analytic Hierarchy Process In Natural Resources and Environmental Decision Making*. Kluwer Academic Publishers, Dordrecht, pp. 253-268.
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Other Publications:

1. Erlacher, C., Jankowski, P., Salap Ayça, S., Anders, K.-H., Paulus, G. 2016. Development of a High Performance Capabilities for Supporting Spatially-Explicit Uncertainty- and Sensitivity Analysis in Multi-Criteria Decision Making. Proceedings of the Eighth International Conference on Sensitivity Analysis of Model Output - November 30th to December 3rd 2016, Reunion Island, pp. 38-39.
2. Salap Ayça, S., Jankowski, P. 2016. Investigating Scale Effect of Watershed Delineations on Local Multi-Criteria Method for Land Use Evaluation. Proceedings of the Eighth International Conference on Sensitivity Analysis of Model Output - November 30th to December 3rd 2016, Reunion Island, pp. 81-82.
3. Borges, J. L. C. ; Jankowski, P. ; Davis Junior, C. 2015. Crowdsourced information from Tweets during the WorldCup in Brazil: A theme search. In: Changing Cities, 2015, Porto Heli. Proceedings of the International Conference on Changing Cities II, Spatial, Design, Landscape & Socio-economic Dimensions. Thessaly: Grafima Publications, pp: 1511-1519
4. Moura, A.C.M, Jankowski, P. 2014. Contribuições aos estudos de análises de incertezas como complementação às análises multicritérios - “*Sensitivity Analysis to Suitability Evaluation*”. Gramado, XXVI CBC – Congresso Brasileiro de Cartografia, 20 p.
5. Ligmann-Zielinska A, Liu W, Kramer DB, Cheruvelil K, Soranno PA, Jankowski P, Salap S. 2014. Multiscale Spatial Sensitivity Analysis for Agent-Based Modelling of Coupled Landscape and Aquatic Systems. In: Ames, D.P., Quinn, N.W.T., Rizzoli, A.E. (Eds.), Proceedings of the 7th International Congress on Environmental Modelling and Software, June 15-19, San Diego, CA, USA. ISBN: 978-88-9035-744-2, <http://www.iemss.org/sites/iemss2014/proceedings.php>
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10. Andrienko, G., Andrienko N., and Jankowski, P. 2002. Building Spatial Decision Support Tools for Individuals and Groups. Conference Proceedings of the International Conference on Decision Making and Decision Support in the Internet Age (DSIage2002), Ireland.
11. Jankowski, P. Andrienko, N., Andrienko, G., and Voss, H. 2000. On-line analyse in combinatie met GIS ondersteunt beslissingen effectief. Vastgeodinformatie MATRIX, Vol 8(7) pp.14-17.
12. Andrienko, G., Jankowski, P. and Andrienko, N. 2000. Data mining approach to reducing cognitive complexity of multiple criteria spatial decision problem. Eds. P. Forer, A. Yeh, and Jianbang He, Proceedings of the Ninth Spatial data Handling Symposium, Beijing, People's Republic of China, pp. 3a15-3a28.
13. Morris, A., Jankowski, P. 2000. Combining Fuzzy Sets and Databases in Multiple Criteria Spatial Decision Making. In: Flexible Query Answering Systems: Recent Advances, edited by H.Larsen, J. Kacprzyk, S. Zadrozny, T. Andreasen, H. Christiansen. Kluwer, 103-116.
14. Vert G., Morris A., Stock M., and Jankowski P. 1999. Extending Entity-Relationship Modeling Notation to Fuzzy Management of GIS Datasets", Conference Proceedings of the 18th International Conference of the North American Fuzzy Information Processing Society, June 1999, New York, New York.
15. Stasik, M., and P. Jankowski. 1998. GIS-supported group decision making under distributed space and time conditions. Eds. T. Poiker and N. Chrisman, Proceedings of the 8th International Symposium on Spatial Data Handling, Vancouver, B.C., Canada, International Geographic Union, pp. 297-308.
16. Jankowski, P. 1998. Public participation GIS under distributed space and time conditions. Proceedings, International Workshop on Groupware for Urban Planning, Institut National du Genie Urbain, Lyon, France.
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18. Jankowski, P., Nowogrodzki, L., Paluszynski, W., Szczygielski, J. 1996. International GIS: Poland. In: *GIS World Sourcebook 1996*, Fort Collins, CO: GIS World, pp. 427-431.
19. Jankowski, P., and Nowogrodzki, L. 1994. International GIS: Poland. In: *1994 International GIS Sourcebook*, Fort Collins, CO: GIS World, pp. 297-298.
20. Jankowski, P. 1993. Integrated Geographic Information System for Modeling Nonpoint Source Pollution Events, in *Proceedings of the Fourth Annual Conference on AI, Simulation, and Planning in High Autonomy Systems*, IEEE Computer Society Press, pp. 90-94.
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23. Jankowski, P. 1991. GIS Modeling of Agricultural Pollution Critical Areas in Lake Watershed, in *Proceedings of the International Symposium on Environmental Change and GIS*, Asahikawa, Japan, pp. 219-227.
24. Jankowski, P. 1991. Cartographic Modeling of Non-Point Source Pollution Critical Areas for Rivers and Lakes, in *Proceedings of the Eurocarto IX*, Warsaw, Poland, pp. 113-124.
25. Jankowski, P., Haddock, G. and Griffith, S. 1991. Identification of Nonpoint Source Pollution Critical Areas for the Coeur d'Alene Lake, in *Proceedings of the Nonpoint Source Conference*, Tacoma, Washington, pp. 315-328, March.
26. Jankowski, P. 1989. Suitability of Knowledge Representation for GIS, in *Proceedings of the First IGIS Symposium*, NASA, Washington, D.C., Vol. 2, pp. 273-280.
27. Jankowski, P. 1987. Economic Problems of Environmental Protection and Rational Utilization of Natural Resources, Chapter 3 in: *The Environmental Protection* (in Polish), ed. Z. Block, Labor Unions Publishing Company, Warsaw, pp. 141-185, 1987.
28. Jankowski, P. 1983. An Application of Sectoral Analysis to Economic Research (in Polish), in: *Scientific Notebook No. 14*, Poznan School of Economic Press, Poznan, pp. 150-163.
29. Jankowski, P. 1982. Some Mathematical Methods of Regional Classification (in Polish), in: *Monograph No. 201*, Academy of Physical Education Press, Poznan.
30. Jankowski, P. 1980. Quality and Control of Stream Water in the Suburban Area of Poznan Agglomeration (in Polish), in: *Monograph No. 146*, Academy of Physical Education Press, Poznan, pp. 27-38.
31. Jankowski, P., and Brzuszkiewicz, T. 1980. Development Tendencies of Services Supply in the Suburban Area (in German), 4th European Congress on Leisure, *Congressional Publication*, Zurich, pp. 271-282.

PAPERS PRESENTED AT SCHOLARLY MEETINGS:

1. Jankowski, P, Ligmann-Zielinska, A. 2017. Sensitivity Analysis for Spatio-temporal Models: An introduction. Paper presented at the Association of American Geographers Annual Meeting, Boston, April 4 – April 9, 2017
2. Ligmann-Zielinska, A., Jankowski, P. 2017. The dynamics uncertainty: sensitivity analysis of an agent-based model of segregation. Paper presented at the Association of American Geographers Annual Meeting, Boston, April 4 – April 9, 2017
3. Erlacher, C., Jankowski, P. 2017. A GPU-based high performance computing approach for spatially-explicit uncertainty and sensitivity analysis in spatial multi-criteria decision making. Paper presented at the Association of American Geographers Annual Meeting, Boston, April 4 – April 9, 2017
4. Jankowski, P, Czepkiewicz, M., Młodkowski, M., Wójcicki, M., and Zwolinski, Z. 2016. Scalability in Participatory Planning: A comparison of online PPGIS methods with face-to-face meetings Ninth International Conference on GIScience, Short Paper Proceedings, pp: 165-170. GIScience 2016, 27-30 September, Montreal, Canada.

5. Jankowski, P., Geo-questionnaires in Urban Planning: assessing spatial representativeness, recruitment methods, and data quality in applications from Poland and Finland, paper presented at the Association of American Geographers Annual Meeting, San Francisco, March 29 – April 2, 2016
6. Andrienko, G., Andrienko, N., Fuchs., Jankowski, P. Visual Analytics Methodology for Scalable and Privacy-respectful Discovery of Place Semantics from Episodic Mobility Data. Paper presented at the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases 7-11 September 2015, Porto, Portugal
7. Borges, J., Jankowski, P. Davis, P. Crowdsourced Information from Tweets during the World Cup in Brazil: a theme search. Paper presented at the 2nd International Conference “Changing Cities: Spatial, Design, Landscape & Socio-economic Dimensions” Porto Heli, Peloponnese, Greece, 22-26 June 2015
8. Jankowski, P., Eliciting public preferences in local land use planning through Geo-questionnaires, paper presented at the Association of American Geographers Annual Meeting, Chicago, April 22-26, 2015
9. Cova, T., Jankowski, P., *Mapping Spatial Uncertainty in Object-Fields: the case of site suitability analysis*”, paper presented at 8th International Conference on Geographic Information Science, September 23-26, Vienna, Austria.
10. Jankowski, P., Ligmann-Zielinska “*A Framework for Spatiotemporal Sensitivity Analysis of Geographical Models*”, paper presented at 8th International Conference on Geographic Information Science, September 23-26, Vienna, Austria.
11. Jankowski, P., Ligmann-Zielinska, A. *A Need for CyberGIS Infrastructure for Spatiotemporal Uncertainty and Sensitivity Analysis in Geographical Models*, paper presented at the Second International Conference on CyberGIS and Geodesign, August 19-21, 2014, Redlands, CA.
12. Ligmann-Zielinska A, Liu W, Kramer D B, Cheruvelil K, Soranno P A, Jankowski P, Salap S, *Multiscale Spatial Sensitivity Analysis for Agent-Based Modelling of Coupled Landscape and Aquatic Systems*, paper presented at the 7th International Congress on Environmental Modelling and Software (iEMSs), June 15-19, 2014, San Diego, California, USA.
13. Fuchs G., Adrienko G., Adrienko N., and Jankowski P. (2013). “*Extracting Personal Behavioral Patterns from Geo-Referenced Tweets.*” Paper presented at the 16th AGILE Conference on Geographic Information Science, 14 – 17 May 2013, Leuven, Belgium.
14. “Spatially-Explicit Uncertainty and Sensitivity Analysis of Criteria Weights in Land Suitability Analysis”, Association of American Geographers Annual Meeting, Los Angeles, April 13-18, 2013
15. “Spatial Uncertainty and Sensitivity Analysis for GIS Multicriteria-Based Landslide Susceptibility Mapping”, Association of American Geographers Annual Meeting, Los Angeles, April 13-18, 2013
16. “Spatial Uncertainty and Sensitivity Analysis for Multiple Criteria Land Suitability Evaluation” paper presented at the 7th International GIScience Conference, Columbus, Ohio, September 18-21, 2012.
17. “Exploring City Structure from Georeferenced Photos Using Graph Centrality Measures” paper presented at the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, Athens September 5-9, 2011.
18. “Participatory Modeling Methodology: Tightening the GeoDesign Loop” paper presented at the 2nd ISPRS workshop on Pervasive Web Mapping, Geoprocessing and Services”, Vancouver, BC, August 10-12, 2011.
19. “Geocollaboration with Discourse Maps” paper presented at the 2008 Annual Meeting of the Association of American Geographers, Boston, MA April 15-19, 2008.

20. "A Framework for Sensitivity Analysis in Multiple Criteria Spatial Decision Making" paper presented at the 2007 Annual Meeting of the Association of American Geographers, San Francisco, CA April 17-21, 2007.
21. "A Rough Set Theory-Based Approach to Handling Vagueness and Uncertainty in Spatial Data Classification" paper presented at the NATO Advanced Workshop on Fuzziness and Uncertainty in GIS for Environmental Security and Protection, Kiev, Ukraine June 28 – July 1, 2006.
22. "Towards Participatory Geographic Information Systems for Community Planning and Environmental Decision Making" paper presented at the 3rd International conference on "Economic Globalization and Environmental Policy" Warsaw School of Economics, May 25-26, 2006.
23. "Participatory Planning and Decision Making Using Geographic Information Technology" paper presented at the 10th European Community Geographic Information & GIS Workshop, Warsaw, Poland, June 23-25, 2004.
24. "Design Considerations for Participatory GIS" paper presented at the 2nd Annual PPGIS Conference, Portland, Oregon, July 20-22, 2003.
25. "Evaluation of Models and Software Tools for Mediated Participation in Local Planning and Decision Making" paper presented at the 2nd Annual PPGIS Conference, Portland, Oregon, July 20-22, 2003.
26. "An Experimental Study of Geographic Information Technology Use in Collaborative Water Resource Planning: Preliminary results" paper presented at the 2nd GIScience Conference, Boulder, Colorado, September 25-28. September 2002.
27. "Multi-Criteria Decision Analysis in Interoperable Geoprocessing". Presentation (by I.S. and A.W.) at OpenGIS Technical Committee meeting, London, UK, 2002.
28. "Enhanced Adaptive Structuration Theory: a Theoretical Framework for Investigating the Use of Spatial Information Technologies in Participatory Decision Making Situations" paper presented at the 5th AGILE Conference on Geographic Information Science, Mallorca, Spain, April, 2002.
29. "Towards a Framework for Research on Geographic Information-supported Participatory Decision Making", paper presented at the ESF-NSF Workshop on Access to Geographic Information and Participatory Approaches Using Geographic Information, Spoleto, 6-8 December 2001.
30. "Dynamic Maps as Spatial Decision Support Tools" paper presented at the 97th Annual Meeting of the Association of American Geographers in New York City, March 2001.
31. "Data and Technology: Tools and Access" panelist at the workshop on Transportation Decision Making: Place, Community and the Quality of Life, organized by the National Research Council, January 28-29, 2001, Irvine.
32. "Research on Participatory Geographic Information Systems Use: Social-Behavioral Data Analysis Strategies" paper presented at the 1st International Conference GIScience 2000 in Savannah, Georgia, 2000.
33. "GIS and Multicriteria Decision Making" paper presented at the 95th Annual Meeting of the Association of American Geographers in Honolulu, 1999.
34. "A comparison of confirmatory and exploratory data analysis for studying group decision making with GIS, paper presented at the 93rd Annual Meeting of the Association of American Geographers in Boston, 1997.

35. "Use of Multiple Criteria Decision Tools in GIS-Supported Collaborative Decision Making", paper presented at the Annual Meeting of the Regional Science Association International, Buffalo, 1997.
36. "Spatial Choice - A spatial decision support tool for collaborative spatial decision making", paper presented at the 92nd Annual Meeting of the Association of American Geographers in Charlotte, 1996.
37. "Spatial Decision Support Systems for Groups", paper presented at the 91st Annual Meeting of the Association of American Geographers in Chicago, 1995.
38. "Integrating GIS and Multiple Criteria Decision Making Methods," paper presented at the International Geographical Union Regional Conference "Environment and Quality of Life in Central Europe," IGU, Prague, Czech Republic, 1994.
39. "Integration of MCDM and GIS," paper presented at the 90th Annual Meeting of the Association of American Geographers, San Francisco, California, 1994.
40. "Integrated Geographic Information System for Modeling Nonpoint Source Pollution Events," paper presented at the Fourth Annual Conference on AI, Simulation, and Planning in High Autonomy Systems, IEEE Computer Society Press, Tucson, Arizona, 1993.
41. "Modeling Languages for Spatial Decision Support Systems," paper presented at the 88th Annual Meeting of the Association of American Geographers, San Diego, 1992.
42. "GIS Modeling of Agricultural Pollution Critical Areas in Lake Watershed," paper presented at the International Symposium on Environmental Change and GIS, Asahikawa, Japan, 1991.
43. "Cartographic Modeling of Non-Point Source Pollution Critical Areas for Rivers and Lakes," paper presented at the Eurocarto IX, Warsaw, Poland, 1991.
44. "Identification of Nonpoint Source Pollution Critical Areas for the Coeur d'Alene Lake," paper presented at the Nonpoint Source Conference, Tacoma, Washington, 1991.
45. "A Structured Modeling Approach to Model Management in Spatial Decision Support Systems," paper presented at the annual convention of the AAG, Miami, 1991.
46. "A Model Management Approach to Modeling and Simulation of Natural Systems," paper presented at the 4th International Symposium on Spatial Data Handling, Zurich, Switzerland, 1990.
47. "A Model Management Approach to Analytical Modeling in Geoprocessing Systems," paper presented at the Specialist Meeting on Spatial Decision Support Systems, National Center for Geographic Information Analysis, Santa Barbara, March 1990.
48. "Suitability of Knowledge Representation for GIS," paper presented at the First International Geographic Information Systems Symposium, Washington, D.C., November 1987.
49. "Design Consideration for MaPKBS - Map Projection Knowledge Based System," paper presented in cooperation with Tim Nyerges at the AAG Annual Meeting, Portland, Oregon, April 1987.
50. "Multicriteria Analysis of Resource Development Projects," paper presented at the AAG Annual Meeting, Minneapolis, Minnesota, May 1986.
51. "Economic Theory and Environmental Issues in Poland," paper presented at the Western Slavic Association Conference, Portland, Oregon, March 1986.

52. "Methodological Problems in Environmental Economics," paper presented at the First International Seminar of Young Scholars on The Present State of Methodology in Economics in Blazejewko/Poland, September 1983.
53. "The Development Tendencies of Services Supply in Suburban Area," paper presented at the 4th European Congress on Leisure, Poznan/Poland, June 1980.
54. "A Method of the Optimal Location of Service Outlets," paper presented at the conference on Development of Tourist-Oriented Services in Poland, Krakow, Poland, April 1980.

INVITED KEYNOTE ADDRESSES, PRESENTATIONS, AND COLLOQUIA:

- "Lessons from multiple participatory mapping studies conducted in Poland", keynote at Participatory Mapping/GIS 2017 conference, San Luis Obispo, CA, August 1, 2017
- "Modern Methods and Tools for Public Participation in Urban Planning 2017", conference opening keynote, Adam Mickiewicz University, Poznan-Obrzycko, June 22-24, 2017
- "Spatial Decision Support Systems", invited lecture at the Institute of Geographic Sciences and Natural Resource Research, Chinese Academy of Sciences, Beijing, China, May 19, 2017
- "Uncertainty and Sensitivity Analysis in Spatial Models", invited lecture at Zhejiang University, Hangzhou, China, May 17, 2017
- "Sensitivity Analysis for Spatiotemporal Models", invited lecture at University of California Santa Barbara, February 23, 2017
- "Spatial Decision Support Systems: 25 years on", an invited talk at the Carinthia University of Applied Sciences, Villach, Austria, June 8, 2016
- "Geo-questionnaire: A Web-2 Method for Public Participation in Local Land Use Planning", invited talk at the Carinthia University of Applied Sciences, Villach, Austria, June 11, 2015
- "Volunteered Geographic Information: Opportunities and Challenges for 21st Century Geospatial Data Infrastructures", invited presentation at the 7th Forum of Polish Geographers, Adam Mickiewicz University, Poznan, Poland, May 26-27, 2011
- "Integrating a Multi-Objective Genetic Algorithm with Geographic Analysis and Online Visualization System: An Application to Hazard Management", invited presentation at the School of Information Science, University of Otago, April 1, 2011
- "Participatory Modeling Methodology: Tightening the GeoWeb Design Loop, coauthored with Timothy Nyerges, invited presentation at the University of Otago, March 14, 2011
- "Participatory Geospatial Information System Architectures", coauthored with Timothy Nyerges, invited presentation at the University of Otago, March 22, 2011
- "Participatory Role-Play in Collaborative Decision Support, coauthored with Timothy Nyerges, invited presentation at the University of Otago, March 14, 2011
- "Participatory Approaches to Social Learning and Decision Making", invited presentation at the symposium on Energy & Water Sustainability in Southern California, San Diego, Sep. 2010
- "Discovering Landmark Preferences and Movement Patterns from Photo Postings", invited lecture at the Department of Geography, University of California Santa Barbara, April 2010.
- "Web-Based Participatory GIS for Public Involvement in Transportation Planning", invited lecture at the Urban Institute Ireland, University College Ireland, October 2009.
- "Participatory GIS and online support for analytic-deliberative decision making: Reflections on a field experiment", invited lecture at the National Centre for Geocomputation, Maynooth, Ireland, December 2009.
- "Spatial Patterns of Transboundary Migration: A view from the US-Mexico border", invited lecture presented at the Carinthian University of Applied Science, Villach, Austria, June 10, 2009. "
- "Geographic Information Systems and Science: Challenges, Prospects and Applications", invited lecture presented at the University of Economics, Poznan, Poland, June 23, 2009.
- "Transboundary Water Resource and Participatory Decision Making", a keynote address at the 1st Spokane River Forum. Spokane, WA, January 22-23, 2009.

- “Participatory GIS and On-line Decision Support: Reflections on a field experiment”, invited presentation at the Department of Geography, Penn State University, January 20, 2009.
- “Designing Participatory Geographic Information Systems”, World Universities Network Global GIS Academy, on-line lecture presented on 12/17/2007
- “Spatial Patterns of Transboundary Migration: A view from the US – Mexico Border University of Idaho, 11/15/2007
- “Public Participation in Transportation Improvement Programming”, San Diego Chapter of APA, San Diego 12/13/2007
- “Current Research Problems in GIScience”, College of Geographical and Geological Sciences, University of Poznan, Poland, June 2007
- “Designing Collaborative Spatial Decision Support Systems”, Urban Institute of Ireland, College University Dublin, Ireland, March 2007
- “Spatial Decision Support Systems in Conjunctive Water Administration”, University of Agricultural Sciences in Wroclaw, Poland, March 2005
- “Participatory Planning and Decision Making Using Geographic Information Technology”, lecture presented at the 7th GI & GIS Conference, Warsaw, June 2004
- “How to Design an Effective Spatial Decision Support System for Collaborative Water Resource Planning”, open lecture at San Diego State University, March 2003.
- “Landscapes of Poland”, invited lecture to University of Idaho, October 1998.
- “GIS for Every Day Problem Solving” presentation to Idaho tribal students, June 1998.
- “Challenges and Opportunities for Geographic Information Science”, invited presentation at the College of Geography, the University of Poznan, Poland, April 1997.
- “Research Problems in Geographic Information Science”, invited presentation at the Department of Geography, the Jagiellonian University, Cracow, Poland, May 1997.
- “Collaborative Spatial Decision Making” invited presentation to the faculty and students of the College of Natural Resources, June 1996.
- “Spatial Group Choice”, invited presentation at the Idaho chapter of URISA meeting, Moscow, April 1996.
- “Multicriteria Decision Making Techniques for Environmental Risk Evaluation”, invited presentation at the CRESP workshop, Seattle, February 1996.
- “GIS and Water Modeling Applications,” three invited presentations at the Institute of Meteorology and Water Management, Poznan, Poland, June 1993.
- “Global Pollution Problems: The Case of Eastern Europe,” invited presentation in the series of Borah sponsored seminars on the New World Order, University of Idaho, February 1991.
- “Environment and Economics in Eastern Europe,” a public lecture in conjunction with National Geography Awareness Week at Lewis Clark State College, Lewiston, Idaho, November 1990.
- “GIS and Modeling,” presentation to the College of Mines and Earth Resources Advisory Board, April 1990, Moscow.
- “Poland - Yesterday, Today, and Tomorrow,” guest speaker at the 1990 International Seminar Series, University of Idaho.
- Speaker in the International Seminar Series, University of Idaho, 1989.

RESEARCH REPORTS:

- Jankowski, P. 1998. Location-allocation modeling of demand for primary health care services in Idaho, Department of Geography, University of Idaho.
- Chang, K., Jankowski, P., Otawa, T. McGown, 1995. Ground Water Vulnerability Mapping. Idaho Water Resources Research Institute, University of Idaho.
- Jankowski, P. 1986. Report on the Map Projection Expert System Project, Department of Geography, University of Washington.
- Jankowski, P., and Block, Z. 1984. Multiple Criteria Evaluation Methods for Environmental Resources (in Polish), Institute of Economics and Management of Tourism, Poznan.

Jankowski, P. 1982. Environmental Premises for the Development of Tourist Services in Suburban Areas (in Polish), Institute of Economics and Management of Tourism, Poznan.

Jankowski, P., Goldyn, R., and Rozmiarek, G. 1980. Mathematical Modeling of Water Quality (in Polish), Institute for Environmental Protection, Poznan.

GRANTS AND CONTRACTS:

Research Grants:

Conference: Agent-Based Modeling 2017: Agent-Based Models in Social, Human-Environment, and Life Sciences, Co-PI, funded by the NSF Division of Social Behavioral and Economic Research, \$94,996

Development of Advanced Computational and Geographic Visualization Methods for Geospatial and Temporal Strategic Risk Assessment of Crime, with Crystal English Co-PI, funded by the National Institute of Justice (NIJ) Graduate Research Fellowship in Science, Technology, Engineering and Mathematics (STEM, 2016-2017, \$50,000

Geoportal Supporting Public Participation in Spatial Planning, funded by the National Centre for Research And Development, Poland, 2015 – 2018, PI, 2,015,000 PLN (\$ 575,000)

An Experimental Study of Internet-Based Public Participation Geographic Information System in the Context of Spatial Planning, National Science Centre, Poland, 2013 – 2015, PI, 573,000 PLN (\$170,000)

A Spatiotemporal Approach to Sensitivity Analysis in Human-Environment Systems Models, funded by NSF Geography and Spatial Sciences Program, 2013 – 2015, Co-PI (PI: Dr. Arika Ligmann-Zielinska, Michigan State University), \$200,000

Border Migration Pattern Analysis from Remote Sensing Data, funded by the Department of Homeland Security through the National Center for Border Security and Immigration at the University of Arizona, 2009-2011, Co-PI, \$75,000

Target Mapping System for Spatial Data Mining and Visualization, Office of National Drug Control and Policy, 2007 – 2008, Senior Research Personnel, \$950,000

A Border Security Decision Support System Driven by Remotely Sensed Data Inputs, funded by NASA REASoN program, 2003-2008, Co-PI, \$1.8 Million. National Aeronautics and Space Administration (NASA), Research, Education, and Application Solutions Network (REASoN) NCC13-03007

An Internet Platform to Support Public Participation in Transportation Decision Making, funded by NSF Information Technology Research—Cross-foundation Program (medium size project), 2003-2007, PI, \$300,000.

CommonGrounds – A Public Participation GIS Platform for Water Quality Data in San Diego Bay Watershed funded by the State of California, 2004 – 2006, Co-PI, \$400,000

Development of Cartographic Databases from Satellite Imagery Using Neural Networks, funded by the Polish Committee for Scientific Research, 2003-2005, Co-PI, \$76,000.

A study of Geographic Information Technology Use in Collaborative Water Resource Planning, funded by NSF joint programs in Geography and Regional Science and Risk and Management, 2001-2004, PI, \$150,000

- Geographic and Numeric Digital Data Center. Funded by the National Institute of Libraries and Archives, 1999-2001, Co-PI, \$750,000
- Decision Analysis Tools for Health Resource Allocation. Funded by the Idaho Department of Health and Welfare, 1998-99, PI, \$15,000
- Idaho Virtual Geospatial Data Library and Training Center. Technology grant to develop a clearinghouse for GIS data for Idaho. Funded by the Idaho State Board of Education, 1997-98, PI, \$89,000
- Collaborative Decision Making Under Distributed Space and Time Conditions. Research grant to design, implement and analyze a concept of participatory geographic decision support system on the Internet. Funded by the Idaho State Board of Education, 1996-97, PI, \$35,000
- Collaborative spatial decision making using geographic information technology and multicriteria models. Funded by NSF joint programs in Geography and Regional Science and Risk and Management, 1994-97, PI, \$65,000
- Collaborative spatial decision making using geographic information technology and multicriteria models. Analysis of experiment data. Funded by the NSF program Research Experience for Undergraduates. 1997, PI, \$5,000
- State-wide and sub-area transportation model feasibility study. Funded by the Idaho Department of Transportation, 1996, Co-PI, \$75,000
- Application of GIS for the assessment of ground water vulnerability. Funded by the National Research Council, 1995, PI, \$3,500
- Development and Verification of Ground Water Pollution Assessment Model. Funded by the Idaho Department of Water Resources, Division of Environmental Quality, 1993-94, Co-PI, \$70,000
- Workshop on applications of GIS technology for monitoring and management of environmental pollution. Funded by the Environmental Regional Center for Central and Eastern Europe, Budapest, Hungary, 1992. \$3,200
- Regional analysis of socioeconomic and cultural determinants of private sector development in Poland. Funded by UI Research Council, 1992-93, PI, \$2,500
- GIS-Modeling of Agricultural Pollution Critical Areas in Lake Watershed. Funded by the Idaho Mining and Mineral Resources Research Institute, 1991, PI, \$6,000
- Modeling the Economic Impacts of the Mining Industry on a Local Region. Funded by Idaho Mining and Mineral Resources Research Institute, 1990, PI, \$6,000
- Knowledge Representation Schemes for Knowledge-Based Graphic Information Systems. Funded by the Department of Geography, University of Washington, 1987, Co-PI, \$3,500
- Map Projection Expert System. Design and implementation of the Expert System prototype for the cartographic domain. Research funded from the Olympus Grant at the University of Washington, 1986, Co-PI, \$8,000
- The application of decision making techniques to regional planning. Funded the Institute of Economics and Management. Poland, 1983-84, PI.
- Economic and environmental conditions of the development of tourist-recreational infrastructure in suburban areas. Funded the Institute of Economics and Management, Poland, 1981-82, Co-PI.

Design of economically optimal system of sewage purification plants on the Warta River. Funded the Institute of Environmental Protection, Poland, 1978-79, Co-PI.

Teaching Grants:

Course Development: Design for watershed management using GIS and simulation models. Funded by the USDA Higher Education Challenge Grant, 2000-02, Co-PI, \$100,000

Interactive maps for learning through visual exploration and discovery. Funded by the Northwest Academic Computing Consortium, 2000-01, PI, \$5,000

Internet-based thematic mapping service. Funded by the University of Idaho, 1999-2000, PI, \$3,000

Equipment Grants:

An integrated spatial technology lab for GIS, Remote Sensing, and GPS. Funded by the Idaho State Board of Education, 2000-02, Co-PI, \$100,000

Instrumentation and laboratory improvement in Geography at the University of Idaho. Funded by the NSF Instrumentation and Laboratory Improvement Program, 1992, PI, \$29,000

COURSES TAUGHT:

At San Diego State University:

- Introduction to GIS
- GIS Applications (graduate level course)
- Advanced GIS (graduate level course)
- Spatial Decision Support Methods (graduate level course)
- Geographic Information Systems for Business Decision Making (graduate level course)
- Seminar on Participatory GIS (graduate level course)

At the University of Muenster:

- Introductory GIS
- Digital Cartography
- Advanced GIS (graduate level course)
- Spatial Decision Support Systems (graduate level course)

At University of Idaho:

- Spatial Graphics
- GIS Primer
- Understanding Systems Dynamics, Honors Program Course
- Decision Making Methods for Natural Resources Management (graduate level course)
- Geographic Information Systems
- Computer Mapping
- Modeling and Simulation with Geographic Information Systems (graduate level course)

THESES & DISSERTATIONS ADVISED:

Major Professor for 17 doctoral dissertations and 38 MS/MA theses, 1989 - 2016

PROFESSIONAL SERVICE:

- 2008 - present, member of Spatial Decision Support Consortium
- 2009 – 2010, Chair of Departmental Personnel Committee, Geography, SDSU
- 2006 – 2007, Chair of Departmental Policy Advisory Committee, Geography, SDSU
- 2006 – present, Member of California State University GIS Board
- 2003 – present, Coordinator of GIScience Certificate program at San Diego State University
- 2002-2005, Member of the sponsored projects committee for the University Consortium for Geographic Information Sciences (UCGIS)
- 1998, Founding Member of the University of Idaho Eco-Hydraulics research group
- 1997-2000, Evaluator of Phi Eta Sigma Honor Society UI candidates for the national scholarship
- 2001-2002, Member of Information Technology Resource Management Council, State of Idaho
- 1998-2001, Representative of Higher Education in Idaho at Idaho Geospatial Committee

Editorial Board Member

- 2016-present, *Open Geosciences*, Editor-in-Chief
- 2002-present, *Transactions in GIS*, member of the editorial board
- 2003-2011, *Journal of Geographical Systems*, member of the editorial board
- 2007-2010, *SAGE Encyclopedia of Geography*, associate Editor for GIScience
- 1998-2003, *Journal of Geographic Information and Decision Analysis*, member of the editorial board
- 2002, *UNESCO's Encyclopedia of Life Support Systems*, editor of Spatial Decision Support Systems section

Reviewer Responsibilities

Journals:

- 2017, Stochastic Environmental Modeling
- 2017, Cartographic Perspectives
- 2015-present, *Questiones Geographicae*
- 2010, Environmental Policy and Governance
- 2008, European Journal of Operations Research
- 2000-present, Computers, Environment and Urban Systems
- 2000-present, Computers & Geosciences
- 1996-present, Environment and Planning B:
- 1994-present, International Journal of Geographical Information Science
- 2000, Geographical and Environmental Modeling
- 1996-present, Transactions in GIS
- 1998-99, Journal of Environmental Management
- 1999, Geomatica and Cartographic Perspectives
- 1999-present, Journal of Geographical Systems
- 1997-2003, Journal of Geographic Information and Decision Analysis
- 1992-93, Green Library Journal

1992-93, Photogrammetric Engineering and Remote Sensing
1995-99, Cartography and Geographic Information Systems

Book Publishers:

2000, Oxford University Press
2001, Blackwell Publishers

Funding Agencies:

2012, Swiss National Science Agency
1994-present, NSF programs in Geography and Regional Science
1998-present, Social Sciences and Humanities Research Council of Canada
1998-01, NSF International Program for Western Europe
1993-97, NSF Instrumentation and Laboratory Improvement Program
1991, National Geographic Society

OTHER PROFESSIONAL ACTIVITIES:

Consulting:

1996-99, Research Consultant, Idaho Department of Health and Welfare
1988 (summer) The Georgette Group, Seattle, Washington
1987 (summer) Seattle City Light, Seattle, Washington
1979-80, Project Consultant, Institute for Environmental Protection, Poznan, Poland

Membership in Professional and Scholarly Organizations:

1985-present, Association of American Geographers
1997-99, Regional Science Association International
1991-93, IEEE Computer Society

Foreign Languages:

Fluent in Polish and German
Intermediate knowledge of Russian

Professional Courses/Institutes Attended:

“Geoprocessing and Scripting with Python” course taught by ESRI, Redlands, CA, October 14-15, 2004
“Programming MapObjects with Visual Basic” course taught by ESRI, Sun Valley, Idaho, October 8-10, 1998
“Programming with Avenue” course taught by ESRI, Olympia, Washington, March 1-3 1995
“Using GRID with ArcInfo” course taught by ESRI, Olympia, Washington, April 5-9, 1993
“Knowledge-Based Modeling Design and Simulation” institute sponsored by the College of Engineering and Mines, University of Arizona, Tucson, May 23-27, 1988
“Design and Development of Expert Systems” institute sponsored by the Center for Educational Development and Research, University of Washington, Seattle, March-May 1986

HONORS AND AWARDS:

William Evans Visiting Fellow, University of Otago, New Zealand, March-April, 2011
Science Foundation Ireland, Walton Visiting Professor, University College Dublin, 2009
Fulbright Senior Specialist, Adam Mickiewicz University, Poznan, Poland, December 2008
Fulbright Senior Specialist, Adam Mickiewicz University, Poznan, Poland, June 2006
Fulbright Senior Specialist, Westfaelische Wilhelms Universitaet, Muenster, Germany, April 2005
Fulbright Senior Specialist, Adam Mickiewicz University, Poznan, Poland, June 2004
Outstanding Faculty Award for Assisting Students with Disabilities, University of Idaho, 2000
Outstanding Faculty Award for Teaching Excellence in 1993-1994, University of Idaho
Edward L. Ullman Award for Distinguished Achievement as a Ph.D. student in Geography, Department of
Geography, University of Washington, 1989
Dissertation Fellowship, University of Washington, 1988
Fulbright Scholarship, Polish-American Fulbright Commission, University of Washington, 1984-85
International Association of Students in Economics and Business Management (AIESEC) Scholarship,
Preussag A.G., Hannover, West Germany, summer 1977
"Primus Inter Pares" - Award of Rector of the Poznan University of Economics for academic excellence,
1977