

Call for Papers for Cartography and Geographic Information Science Special Issue on "Mapping the Census"

Guest Editors: Ningchuan Xiao, Department of Geography, The Ohio State University(xiao.37@osu.edu) and Kevin Hawley, Geography Division, US Census Bureau(kevin.j.hawley@census.gov)

Census data has provided tremendous opportunities for social science, economic, business, and geographic research. However, there are fundamental challenges that cannot be overlooked, especially as we approach a new round of censuses in many countries. This special issue of Cartography and Geographic Information Science (CaGIS) on "Mapping the Census" is intended to cover topics relating to the use of census data for a wide range of readers. Here, we use the term "mapping" in a broad sense referring to various methods that can be used to analyze, understand, and visualize the spatial aspect of census data. We invite submissions that focus on census data from the perspectives such as cartography, visualization, spatial analysis and modeling, population and urban studies, geostatistics, and uncertainty. The following is a non-exclusive sample of research topics in these areas; we welcome papers that address all issues related to the spatial aspects of census data.

* Cartography and visualization. Effective techniques for visualizing census data on maps and the Internet; the integration ("mash-up") of census data with various online mapping services such as Google Maps, MapServer, and GeoServer.

* Computation. Novel methods that can be used to handle the massive volume of census data; spatial data mining of census data; the use of census data in collaboration with ancillary, volunteered geographic information available on the Internet or a local geodatabase.

* Delineation. The delineation of geographic areas using census data or other data sources; interpolation of census data across different geographical areas with different scales; the improvement of census geographies.

* Modeling. Methods that address the Modifiable Areal Unit Problem (MAUP) caused by spatial aggregation in census data; modeling and mapping census undercount and its spatial impacts; the estimation of daytime and nighttime population or other census variables between decennial censuses; the use of census data to support quantitative or qualitative population analysis.

Full papers should be submitted in Word document to the guest editors (xiao.37@osu.edu and kevin.j.hawley@census.gov) as email attachments by November 23, 2009. The special issue is planned to publish in July 2010. All submissions will be peer-reviewed using the regular CaGIS review process. For information on manuscript format and style, please see the CaGIS guidelines for authors at <http://www.cartogis.org/publications/document.2006-09-05.7116381016>. Please contact the guest editors for any questions.