

LSGI Talk Series: Emerging Topics in Geospatial and Urban Science

Representing and visualizing interpersonal relationships and social life as geospatial data

Date: 19 Aug 2021 (Thursday)

Time: 9:30am - 11:00am

Venue: Online

Language: English



Speaker:

Dr. Clio Andris

Assistant Professor
Georgia Institute of Technology, US

Bio:

Clio Andris is an assistant professor in the School of City and Regional Planning and the School of Interactive Computing at Georgia Tech. Her background is GIS and her research is on mathematical models of social networks and interpersonal relationships applied to issues of urban planning, visualization, and geography. She directs the Friendly Cities Lab and is a member of the Center for Spatial Planning Analytics and Visualization (CSPAV). She is also a member of the School of Interactive Computing's Information Visualization research group.

Abstract:

Supporting and enhancing interpersonal connections and social life is a pressing issue in an increasingly digital world. Although interpersonal relationships are a key part of human spatial and social behavior, they remain a largely invisible part of maps and geographic information systems (GISystems). Prevailing methods of mapping demographic data do not sufficiently represent human behavior, and newer behavioral data (mobility, check-ins, tweets, etc.), are rarely used to represent personal ties in space.

To incorporate social relationship information into GISystems, we must first represent relationships as spatial data. Here, we list possibilities for representing the presence and magnitude of relationships and social life as spatial data using vector (point, line, polygon) and raster structures. We describe currently available data and potential uses. The goal of this work is to provide GIScientists with new methods to show the presence and vitality of relationships, social life and civic indicators, and how these indicators may correlate with features of geographic space. With this overview of representation options, GIScientists may see a clearer path to using relationship variables in spatial models, just as human behavioral and demographic features are used today.

Deadline for registration: 12:00noon, 16 Aug 2021

All are welcome. To register, please click [here](#) for the details.

Registrants will receive the online talk information one day before it starts.

For enquiries, please contact Ms Anna Choi at 3400 8158 or anna.choi@polyu.edu.hk