Using Mobile Phone Data for Spatial Information Science

Generation, Inference, and Applications

Presentation + Chat over Lunch

Mobile phone location data have become an important source for spatial information science, providing new opportunities to understand *human activities, mobility patterns, and urban dynamics* across fine spatial and temporal scales. At the same time, their use faces several challenges, including *privacy constraints, limited data accessibility, and the difficulty of deriving socially meaningful information* from raw trajectories.

This talk presents three related lines of research addressing these issues: *AI-driven generation of pseudo GPS trajectories* under *privacy-aware settings, behavior and demographic inference* from anonymized mobility data, and *urban applications that reveal behavioral patterns* and *social heterogeneity* in cities.

Together, these studies highlight the potential of mobile phone data for *evidence building* in *urban studies, spatial information science,* and *social science research.*

9 April 2026

Thu 12:40 ▶ 13:40

Bring your own lunch. Coffee and snacks will be served.

📍 Room 205, Annex Building
West Campus, Hitotsubashi University

📝 Please register via the URL or QR code.
https://forms.cloud.microsoft/r/yAA70W
[Deadline] 8 April 2026, 3 p.m.

Presenter

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The HIAS Brown Bag Seminar is a university-wide seminar series hosted by the Hitotsubashi Institute for Advanced Study (HIAS). It aims to promote interaction among HIAS researchers, faculty members, and students. With its ten research centers, HIAS will continue to serve as a hub for active research collaboration across the University.

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