Spatial Microsimulation:
Methodological advances and empirical applications

Dimitris Ballas (d.ballas@rug.nl), University of Groningen
Manos Matsaganis (emmanuel.matsaganis@polimi.it), Polytechnic University of Milan
Anastasia Panori (apanori@plandevel.auth.gr), Aristotle University of Thessaloniki
Thanasis Ziogas (a.ziogas@rug.nl), University of Groningen

Abstract

The proposed session focuses on spatial microsimulation as a powerful methodological tool for small-area estimations. Spatial microsimulation is increasingly recognized for its capacity to generate synthetic datasets at low-level geography, enabling researchers to address complex research questions in various fields including economics, geography, sociology, political science and public policy among others. The session will showcase methodological advances in spatial microsimulation, including innovations in model design, algorithm improvements, and validation. In addition, the session will highlight empirical studies where spatial microsimulation is used to answer research and policy questions. By bridging methodological innovations and practical applications, this session will provide a platform for interdisciplinary debates, while at the same time demonstrating the usefulness of spatial microsimulation in empirical research.