

The Future of Urban Networks
Het Pand Convention Center, Ghent University
September 18 – 20

Sunday, September 17

18:00 Walking Tour of Ghent, meet in hotel lobby

Monday, September 18

7:30 – 8:45 Breakfast at the hotel (8:45 meet in lobby to walk to conference site)

9:00 – 9:30 Welcome – **Frank Witlox**
Symposium Overview – **Ben Derudder & Zachary Neal**

9:30 – 10:45 Rapid Introductions (1 Slide & 2 Minutes per participant)

10:45 – 11:15 Break

11:15 – 12:45 **Session 1: Theory (Chair: Zachary Neal)**
David O’Sullivan – Some translation required, or: a city is not a network, either!

Stephen Marshall – When is a Network not a Network? Bridging Representation and Reality

Michiel van Meeteren & Ate Poorthuis – Analyzing multiscalar urbanization using network analysis: The challenges of nodalization

12:45 – 13:45 Lunch

13:45 – 15:15 **Session 2: Data (Chair: Ben Derudder)**
Jürgen Pfeffer – Messing up your urban research data

Antoine Peris & Evert Meijers – Measuring intercity relationships through the co-occurrence method: application and evaluation

Martin Tomko – Many images of cities: Extracting and reasoning about functional urban forms

15:15 – 15:45 Break

15:45 – 17:00 **Topical Roundtables: Method**
Table 1 – Visualization of urban networks (Pfeffer)
Table 2 – The limits of network analysis (O’Sullivan)
Table 3 – Combining networks with other methods (Liu)
Table 4 – Urban network data sources (Ducruet)

19:00 Conference Dinner

Tuesday, September 19

7:30 – 8:45 Breakfast at the hotel (8:45 meet in lobby to walk to conference site)

9:00 – 10:30 **Topical Roundtables: Substance**
Table 1 – Intra-urban networks (Lobo)
Table 2 – Multi-level urban networks (Neal)
Table 3 – Urban infrastructures (Reggiani)
Table 4 – Networks of urban economies (Derudder)

10:30 – 11:00 Break

11:00 – 12:30 **Session 3: Space (Chair: Zachary Neal)**
Marc Barthélemy – Spatial networks: Characterization and modeling

Javier Delso – A methodology of evaluation pedestrian mobility changes with a new urban configuration: Case study of Vitoria-Gasteiz

Neil Huynh – Transport networks and towns in Roman and early medieval England: An application of network analysis to archaeological questions

12:30 – 13:30

Lunch

13:30 – 15:00

Session 4: Infrastructure (Chair: Ben Derudder)

Aura Reggiani – Complex urban networks: Resilience, vulnerability and accessibility

Jose Carpio-Pinedo – Network-based segregation in urban environments: Multi-modal network accessibility and the potential of social encounter

Laura Lotero-Vélez – Socioeconomic differences in urban mobility networks

15:00 – 15:30

Break

15:30 – 17:00

Collaborative team roundtables

17:00

Free evening to explore Ghent (dinner on own)

Wednesday, September 20

7:30 – 8:45

Breakfast at the hotel (8:45 meet in lobby to walk to conference site)

9:00 – 10:30

Session 5: Living (Chair: Zachary Neal)

Jose Lobo – Spatial effects of human networks: Towards a theory of settlement scaling

Asya Natapov – Cities as visuospatial networks

Rossano Schiffranella – Mapping the sensorial layers of a city

10:30 – 11:00

Break

11:00 – 12:30

Session 6: Traffic (Chair: Ben Derudder)

Renaud Lambiotte – Topological properties and temporal dynamics of place networks in urban environments

Ouassim Manout – The impact of intrazonal trips on traffic assignment results: A stochastic approach

Yuerong Zhang – Mode-oriented road hierarchy and transport efficiency based on multilayer network framework

12:30 – 13:30

Lunch

13:30 – 15:00

What is the Future of Urban Network Research?

Ben Derudder & Zachary Neal – Closing remarks & publication plans

15:00

Closing Reception