

**VU**



**VRIJE  
UNIVERSITEIT  
AMSTERDAM**

## **Complex-City Workshop Programme**

VU University  
&  
Tinbergen Institute

5 & 6 December, 2011

The workshop is sponsored by:  
The Royal Netherlands Academy of Arts and Sciences (KNAW)

**MONDAY, 5 December**, Tinbergen Institute, Gustav Mahlerplein 117, Amsterdam<sup>1</sup>

09.00-09.15 **Reception and Coffee**

09.15-9.30 **Peter Nijkamp: Words of Welcome**

**SESSION 1:**

Chair: **Aura Reggiani**

09.30-10.00 **Mike Batty**  
*Spatial Complexity*

10.00-10.30 **Laurie Schintler, Rajendra Kulkarni and Kingsley Haynes**  
*Sensing "Socio-Spatio-Temporal" Activity Patterns from Location Sharing Services Data*

10.30-11.00 **Coffee Break**

11.00-11.30 Hannah Fry and **Alan Wilson**  
*A Dynamic Global Trade Model with Four Sectors*

11.30-12.00 **Anna Nagurney**  
*Designing Sustainable Supply Chains for Sustainable Cities*

12.00-12.30 **Eric de Noronha Vaz, Peter Nijkamp and Marco Painho**  
*Gravitational Forces in Spatial Impacts of Urban Sprawl*

12.30-13.30 **Lunch**

**SESSION 2:**

Chair: **Mike Batty**

13.30-14.00 **Daniel Arribas, Arturo Ramos-Gutiérrez and Fernando Sanz Gracia**  
*The Size Distribution of Urban Employment Centers in the U.S. Metropolitan Areas*

14.00-14.30 **Amit Batabyal and Peter Nijkamp**  
*The Creative Class, its Preferences, and Unbalanced Growth in an Urban Economy*

14.30-15.00 **Francesca Medda and Alan Wilson**  
*A Model of Urban Evolution*

15.00-15.30 **Eric Koomen, Jasper Dekkers and Chris Jacobs**  
*Simulating Residential Land-use Density*

15.30-16.00 **Coffee/tea**

<sup>1</sup> The new location of the Tinbergen Institute is near railway station Amsterdam-Zuid (6 minutes from the airport by train and conveniently located at tram/metro stops at station Amsterdam-Zuid).  
<http://www.tinbergen.nl/>

- 16.00-16.30 **Aura Reggiani** and Peter Nijkamp  
*Did Zipf Anticipate Social Networks?*
- 16.30-17.00 **Markus Schläpfer**, Dominik Dahlem and Carlo Ratti  
*Cities Accelerate Social Relations: Evidence from Mobile Phone Communication Data*
- 17.00-17.30 **Matteo Marsili**  
*On the Interplay between Incentives and Topology for the Emergence of Collaboration on Social Networks*
- 19.00 ***Drinks and dinner at Restaurant 'Martinot'***, Corner Moreelsestraat 3 and Van Baartestraat, 1071BJ Amsterdam (020- 6626436). Take Tram 5 to Museumplein (10 min.).

**TUESDAY, 6 DECEMBER**, Tinbergen Institute, Gustav Mahlerplein 117, Amsterdam

**SESSION 1:**

Chair: **Alan Wilson**

- 08.30-09.00 **Emmanouil Tranos**, John Steenbruggen, Peter Nijkamp and Henk Scholten  
*Mobile Phone Usage and Land-use*
- 09.00-09.30 **Andrea De Montis**, Simone Caschili and Alessandro Chessa  
*Commuter Networks and Community Detection: A Method for Planning Sub Regional Areas*
- 09.30-10.00 **Arnoud Legendijk**, Karel Martens and Sophia Boertjes  
*Light Rail as a Catalyst or Trojan Horse? How a Transport Concept Mushrooms Globally and How it Troubles a Local Planning Practice*
- 10.00-10.30 **Coffee Break**
- 10.30-11.00 Peter Vervest, Leo Kroon and **Evelien van der Hurk**  
*Passengers in Public Transport: Passenger Travel Behavior from a Complex Systems Perspective*
- 11.00-11.30 Martijn Burger, **Frank van Oort** and Evert Meijers  
*Whose Polycentric Urban Region? Socio-Demographic Characteristics and Travel Behavior in Randstad Holland*
- 11.30-12.00 **Waldemar Ratajczak and Zbigniew Palka**  
*Coding of Complex Structures*
- 12.00-13.00 **Lunch**

**SESSION 2:**Chair: **Emmanouil Tranos**13.00-13.30 **Eveline van Leeuwen** and Mark Lijesen  
*Agent Based Spatial Competition*13.30-14.00 Yitzhak Benenson, Dani Broitman and **Daniel Czamanski**  
*Bursts and Avalanches – The Dynamics of Polycentric Urban Evolution*14.00-14.30 **Tao Cheng** and Ed Manley  
*Network Complexity: Space-Time Dynamics and Tipping Points*14.30–15.00 **Coffee / tea**15.00-15.30 Mark Birkin and **Nick Malleson**  
*Microscopic Simulations of Complex Metropolitan Dynamics*15.30–16.00 **Christian Kaiser**  
*Change of Support for Spatial Interaction Data. Journey-to-work Flows as an Example*16.00 **Drinks and Closure****Hotel Information:****Delphi Hotel**Apollolaan 101-105  
1077 AN Amsterdam  
Tel. 020-6795152  
Fax: 020-6752941**From Airport to Delphi Hotel:**

Take the train to Amsterdam-Zuid (WTC) (trains go every 10 minutes) and continue with tram 5 (direction Central Station) (4 stops). Exit at Apollolaan. (Note: the tram 5 stop has now moved to a different platform. You will see the tram 5 sign, when you exit the main WTC entrance of the station).

**From city centre to Delphi Hotel and Tinbergen Institute:**

Tram 5 for both Delphi Hotel (Apollolaan) and Tinbergen Institute (Station Zuid).

**From Airport to Tinbergen Institute:**

Take the train to Amsterdam-Zuid (WTC) (trains go approx. every 10 minutes). The Tinbergen Institute is in walking distance of Station Amsterdam-Zuid (on the southern side of the station – see map below).

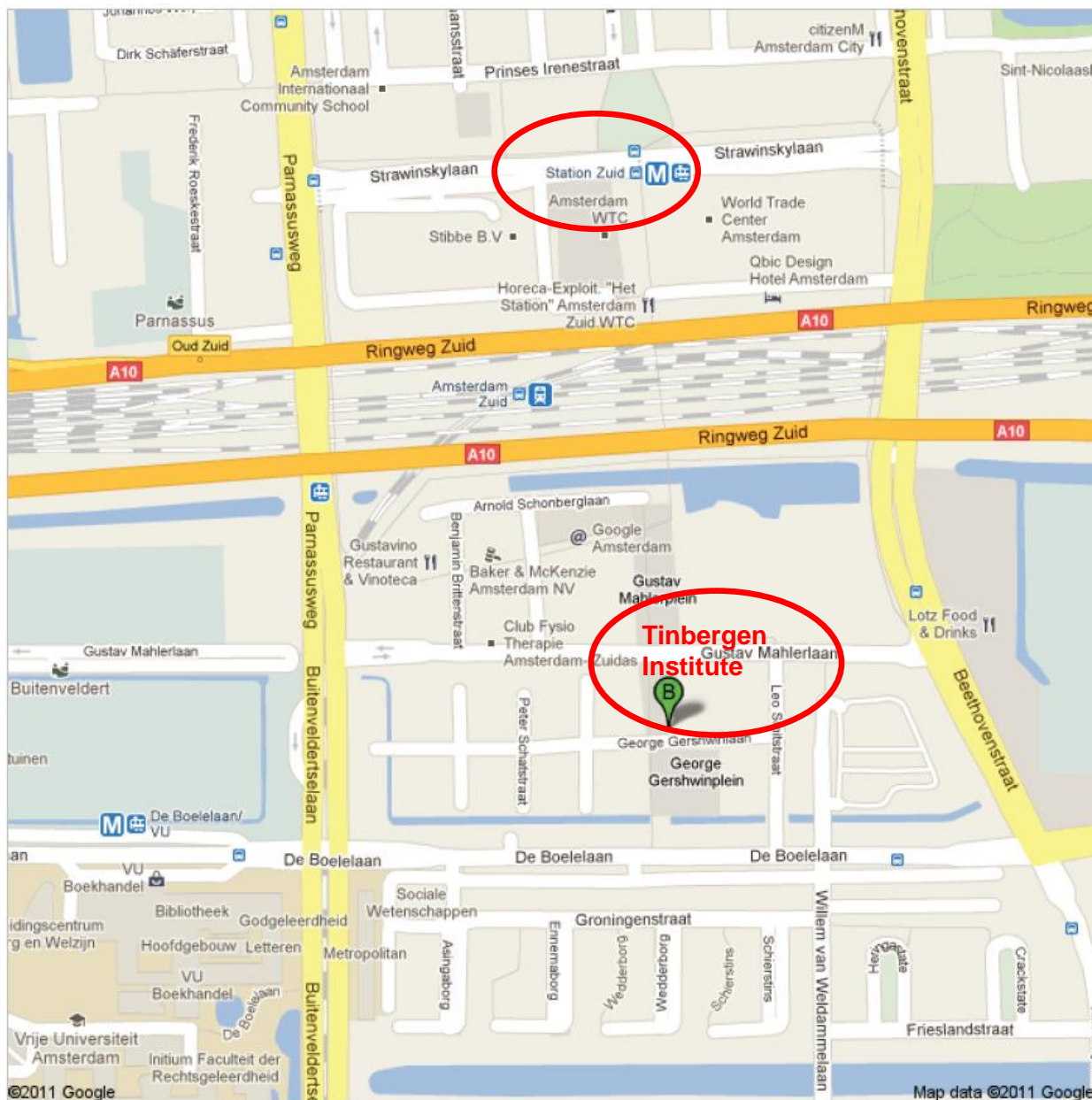
Taxi's from the airport to the Tinbergen Institute take 10-15 minutes (approx.30-35€).

**Note:**

For the metro (51) and for tram 5 you need an OV Chipcard. The disposable card is a practical choice. It can be bought at the (train/bus) station (ticket machine). After usage, the card cannot be reloaded and can be thrown away. The disposable card can be purchased in much the same way

as you used to buy a train ticket before: per journey or combination journey, for example, 5 same-day return journeys or an OV day card. If you stay longer, you can buy a reloadable card.

Please note that your OV Chipcard is checked in and out inside the tram (5) and outside (portals/gateways) for the metro. You will be fined 4 euro for checking in and out in the wrong way.



Amsterdam Zuid to Tinbergen Institute