

The 2nd International Workshop on Agent-Based Modelling of Urban Systems (ABMUS2017)

Held at the AAMAS conference in São Paulo, Brazil on the 8th of May 2017,
WTC São Paulo, Avenida das Nações Unidas, 12559, Brooklin Novo
Chaired by Dr Koen H. van Dam and Prof Pascal Perez

<http://www.modelling-urban-systems.com/>

**09:00-
11:00** 09:00 Welcome to ABMUS2017

Theme 1: Population

09:30	Bhagya N. Wickramasinghe, Dharendra Singh and Lin Padgham Heuristic Data Merging for Constructing Initial Agent Populations
09:45	Bernardo Alves Furtado and Isaque Daniel Rocha Eberhardt An applied spatial agent-based model of administrative boundaries using SEAL
10:00	Samarth Swarup, Julia Gohlke and James Bohland A Multi-agent Model of Population Heat Exposure
10:15	Eric Silverman, Fred Charles, Julie Porteous, Ian Wood and Louisa Ells Agent-Based Virtual Urban Environments for Population Health Applications
10:30	Discussion Theme 1

**11:00-
11:30** Coffee/tea break

**11:30-
13:00**

Theme 2: Mobility

11:30	Guni Sharon and Peter Stone A Protocol for Mixed Autonomous and Human-Operated Vehicles at Intersections
11:45	Nam Huynh, Johan Barthelemy and Pascal Perez Enabling Crowd Simulations To Handle Ripple Effects Across Transport Networks
12:00	Fatema T. Johora, Philipp Kraus and Joerg P. Mueller Dynamic Path Planning and Movement Control in Pedestrian Simulation
12:15	Sergio Arturo Ordóñez Medina Scheduling weekly flexible activities in a large-scale multi-agent mobility simulator
12:30	Discussion Theme 2

**13:00-
14:30**

Lunch

**14:30-
16:30**

Theme 3: City complexity

14:30	Vinicius Neto, Joao Meirelles and Fabiano Ribeiro Social entropy and the city: a unidimensional model
14:45	Robert Tanton, Christopher Pettit and Pascal Perez A framework for integrating collaborative city design with individual-centred modelling
15:00	Stefano Picascia, Ali Termos and Neil Yorke-Smith Data-Driven Agent-Based Simulation: A Case Study of West Asian Urban Dynamics
15:15	Discussion Theme 3

15:45 Elevator pitches by non-presenting participants

16:00 General Discussion on ABMUS topics

**16:30-
17:00** Coffee/tea break

**17:00-
18:00** **Theme 4: Collecting real data**

17:00	Maria Briola, Christoph Mazur and Koen van Dam Agent-based modelling of urban residential heat demand in a district heating network
17:15	Stefania Bandini, Luca Crociani, Giuseppe Vizzari, Flavio Soares Correa Da Silva and Andrea Gorrini The Role of Compliance in Heterogeneous Interacting Agents: Data from Observations
17:30	Discussion Theme 4

17:45 Discussion on the future of ABMUS

18:00 Closing of ABMUS2017