

**Avignon, Tuesday April 24**

**Program for the pre-AGILE joint workshop  
MECHANICITY VS GEODIVERCITY (ERC)**

**First part: joint session with Workshop “Complexity modelling for urban structure and dynamics” organised by Bin Jiang and Itzhak Benenson**

**9:00 - 9:30**

Mike Batty and Robin Morphet  
Spatial complexity

**9:30 - 10:00**

Denise Pumain  
Organizing a variety of agent-based models for solving theoretical problems

**10:00 - 10:30**

Itzhak Benenson  
Equations or geosimulation? To understand the phenomenon you need both!

**10:30 - 11:00**

Bin Jiang  
Head/tail breaks: A new classification scheme for data with a heavy-tailed distribution

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

**Second part: MECHANICITY and GEODIVERCITY**

**11:30 – 12: 30**

**Urban Growth**

*Chair: Denise Pumain*

Elsa Arcaute (MECHANICITY)

Looking for scaling in UK Cities

Clémentine Cottineau (GEODIVERCITY)

A tool for assessing the specificity of the evolutionary path of Russian cities

**12:30-14:00 lunch**

**14:00- 15:00**

**Urban Boundaries**

*Chair: Mike Batty*

Erez Hatna (MECHANICITY)

Redefining urban boundaries towards scaling

Elfie Swerts (GEODIVERCITY)

A multi-level analysis of urban growth in the Indian urban system

**15:00-15:30 Coffee Break**

**15:30-17:00**

**Simulating cities**

*Chair: Arnaud Banos*

Mathieu Leclaire and Romain Reuillon (GEODIVERCITY)

Openmole, a generic platform for model experimentation using distributed computing

Clara Schmitt and Sebastien Rey-Coyrehourcq (GEODIVERCITY)

Simpoplocal, a simulation model for early urban settlements : automated calibration with genetic algorithm

Erez Hatna (MECHANICITY)

The Schelling model of Segregation: the effect of agents with distributed tolerance thresholds

Thomas Louail (GEODIVERCITY)

SimpopNano, a model for exploring the effect of networks on urban dynamics

**17:00 -18:00**

Conclusion of the day, discussion and perspectives of collaboration