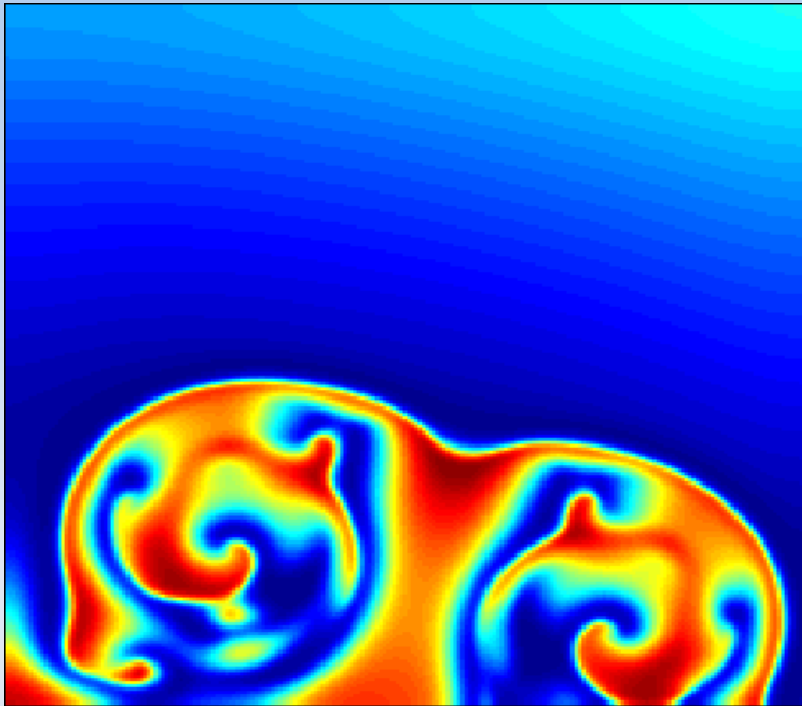


Complex Systems Modelling, Simulation and Analyse

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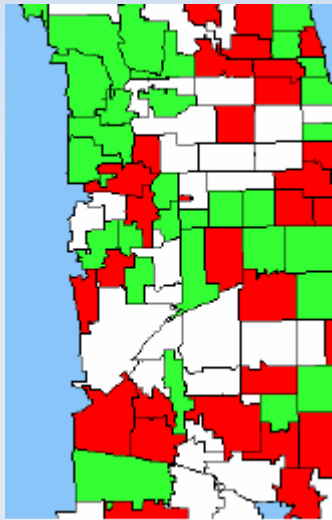
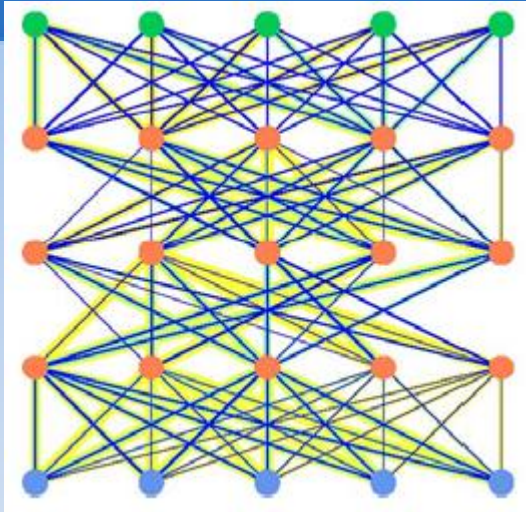


1. Conceptual Approaches & General objectives



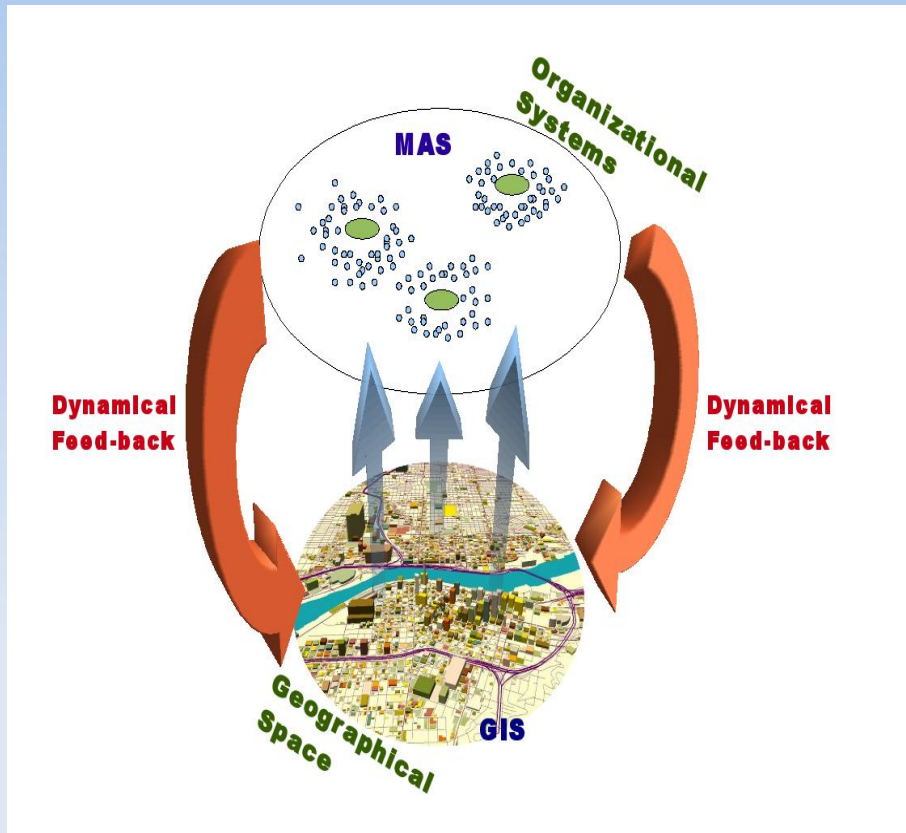
- Emergence properties from systems complexity
- Self-organized systems: understanding and modelling
- Complex systems control and management
- Multi-scale decision making within the complexity

2. Modelling and Implementation Methodologies



- Dynamical systems, synchronization and chaos
- Behavioral models, multiagents and swarm intelligence
- Interactions network and social systems
- Geographical Information Systems and spatial decision support systems

3. Applications

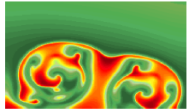


- **Territorial intelligence:** urban dynamics, risk management and urban population protection
- **Multi-scale fluxes:** urban mobility within swarming cities, multi-scale logistics
- **Sustainable environments and ecosystems modelling**

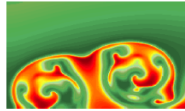
4. References (1)

Research animations

ICCSA 2009

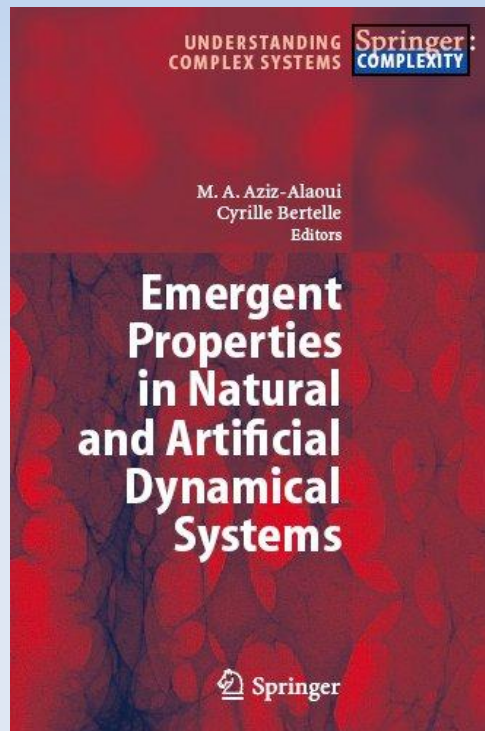


The 3rd International Conference on



Complex Systems and Applications

University of Le Havre, Le Havre, Normandy, France
June 29- July 02, 2009



- 3 books in "understanding Complex Systems" series, Springer
- 3 conference proceedings edition (ESM 2006, 2007 and 2008)
- 2 international conferences on complexity organized in Le Havre
- 2 international workshops in ECCS 2005 and 2007

4. References (2)

Scientific networks and projects

- Coordination of interregional network STIC-SHS (Information Communication Technologies & Human and Social Sciences) involving complexity and risk management
- Coordination of research network axis "Population protection and risk management"
- Member of CSS, ISC (Paris), S4 (Spatial simulation for social sciences)
- Numerous research projects, publications, communications and PhD