

Program  
ECCS'12 Satellite Meeting  
**Information Processing in Complex Systems (Ipcs'12)**  
September 5, 2012

09:30 – 09:40 *Welcome*

09:40 – 10:10 *Invited Talk - Information Propagation in Dynamic Contact Networks*  
*George Kampis & Laszlo Gulyas*

***Session 1 – Information processing & Complex Systems – Chair: George Kampis***

10:10 – 10:40 *Rick Quax & Peter Sloot* Information processing in complex networks  
University of Amsterdam

10:40 – 11:00 Coffee Break

11:00 – 11:30 *Bastien Chopard & Ranaivo Razakanirina* – Emergence of organizational structures in a cellular automata model on a graph

11:30 – 12:00 *Janusz A. Holyst* – Dissipation in Complex Networks and Stochastic Resonance

12:00 – 12:30 *Jaap Kaandorp* – Complexity in morphogenesis

12:30 – 14:00 Lunch Break

14:00 – 14:10 *Introduction to TOPDRIM project*

14:10 – 14:40 *Invited talk - Topological analysis of data*  
*Francesco Vaccarino*

***Session 2 – Topology & Complex Systems – Chair: Francesco Vaccarino***

14:40 – 15:10 *Giovanni Petri, Francesco Vaccarino, Martina Scalamiero & Irene Donato* – Network and cycle: a persistent homology approach to complex networks

15:10 – 15:30 *Emanuela Merelli & Mario Rasetti* – The immune system as a metaphor for topology driven pattern formation in complex systems

15:30–16:00 *Luca Tesei, Emanuela Merelli & Nicola Paoletti* – A multi-level model for self-adaptive systems perspective

16:00–16:30 Coffee Break

16:30–17:00 *Pietro Lio, Viet Anh Nguyen & Lucia Bianchi* – Human heuristics in Information processing: a Bayesian perspectives

17:00–17:30 *Jeffrey Johnson* (TBA)

17:30–18:30 Discussion and planning the TOPDRIM kick-off meeting

18:30 *End*