



RESEARCH CONFERENCES

ESF-COST High-Level Research Conference

Future Internet and Society: A Complex Systems Perspective

Hotel Villa del Mare * Aquafredda di Maratea * Italy 2 - 7 October 2010

Chair: **Romualdo Pastor-Satorras**, Universitat Politècnica de Catalunya, ES

Co-Chair: **Claudio Castellano**, CNR-ISC (Istituto dei Sistemi Complessi) & Sapienza Universitá di Roma, IT

Programme Committee: **Thibaut Lery**, ESF, FR; **Gian Mario Maggio**, CREATE-NET, IT; **Alain Peyraube**, CNRS, FR; **Peter Richmond**, Trinity College Dublin, IE; **Fabrizio Sestini**, EU DG INFSO, BE; **Caroline Whelan**, COST Office, BE

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Final Programme

Saturday 2 October

Late afternoon/ early evening Registration at the ESF-COST desk

19:30-21:00

Dinner

21:00 Welcome Drinks

Sunday 3 October

08:30-09:00 Words of Welcome

09:00-09:30 Introduction by ESF and COST

Session 1

09:30-10:20 Kimmo Kaski

Helsinki University of Technology, FI

Opinion and community formation in co-evolving networks

10:20-10:50 Coffee break

10:50-11:40 Petter Holme

Umeå University, SE

The dynamics of Internet intermediated partner formation

Short Talks

11:40-11:55 Adolfo Paolo Masucci

Universitat de les Illes Balears, ES

Content-based networks and the semantic web of Wikipedia

11:55-12:10 Johannes Bauer

Michigan State University, US

Modeling the Internet and its governance as a complex adaptive system

12:10-12:25 Maksim Kitsak

University of California, San Diego, US

Identifying influential spreaders in complex networks

12:30-14:30 Lunch

Session 2

14:30-15:20 Jure Leskovec

Stanford University, US

Exploring the structure of on-line social networks: The role of positive and

negative links

15:20-16:10 Petra Ahrweiler

University College Dublin, IE

Innovation processes in complex socio-economic systems: An ICT perspective

16:10-16:30 Coffee break

Short Talks

16:30-16:45 Naoya Fujiwara

Potsdam Institute for Climate Impact Research, DE

Synchronization dynamics in mobile oscillator networks

16:45-17:00 Przemyslaw Grabowicz

University of the Balearic Islands, ES

Heterogeneity shapes groups growth in social online communities

17:00-17:15 Andrea Baronchelli

Universitat Politecnica de Catalunya, ES

Effects of network heterogeneity on opinion spreading

17:15-17:30 Tranos Emmanouil

Newcastle University, UK

The complexity of the space of flows

17:30-17:45 Tara Hennessy

NUI Galway, IE

The lifecycle of online communities

Evening Lecture

18:00-19:00 Walter Willinger

AT&T Labs Research, US

The Internet as a techno-socio-economical system: A reality check for network

science

19:00 Dinner

Monday 4 October

Session 3

09:00-09:50 Ciro Cattuto

Complex Networks and Systems Group, ISI Foundation, IT

Weaving on-line connections on real-world interactions

09:50-10:40 Bosiljka Tadic

Jozef Stefan Institute, SI

User communities and emotional behavior in cyberspace

10:40-11:10 Coffee break

Short Talks

11:10-11:25 Pieter Ballon

Vrije Universiteit Brussel, IBBT, BE

Platforms and models for large-scale end-user experimentation for the future

Internet: Current European experiences with Living Labs

11:25-11:40 Stefan Christmann

University of Goettingen, DE

Web 2.0-based opinion making in political parties: Co-evolution of politics and

the Web

11:40-11:55 Giulia Rotundo

University of Tuscia, IT

Complex networks in symbolic images

11:55-12:10 Schahram Dustdar

TU Vienna, AT

Self-adaptation in socio-computational future Internet systems

Information

12:10-12:30 Fabrizio Sestini

European Commission, BE

Call for applications "Internet Science"

12:30-14:30 Lunch

Session 4

14:30-15:20 Noshir Contractor

Northwestern University, US

Network science meets web science: The emergence of multidimensional

networks

15:20-16:10 Harith Alani

The Open University, UK

Semantics, sensors, and the social web

16:10-16:30 Coffee break

Poster Session

16:30-18:00 *Exhibition*

Evening Lecture

18:00-19:00 Andrea Scharnhorst

Royal Netherlands Academy of Arts and Sciences, NL

Web science or web research? Changing research practices in the social

sciences and humanities

19:00 Dinner & Football match

Tuesday 5 October

Session 5

09:00-9:50 Filippo Menczer

Indiana University, US

How we navigate social information networks: analysis and modeling of web and

wikipedia traffic

09:50-10:40 Ricardo Baeza-Yates

Yahoo Research Lab, ES
Next generation search

10:40-11:10 Coffee break

Short Talks

The University of Sydney, AU

Conceptualizing the evolving service ecosystems on the Internet

11:25-11:40 Leopoldina Fortunati

University of Udine, IT

The Internet and the human voice

11:40-11:55 Agata Fronczak

Warsaw University of Technology, PL

Scaling of fluctuations in complex systems

11:55-12:10 Christian Doerr

TU Delft, NL

Are social relations overrated?

12:10-12:25 Jose Luis Gomez-Barroso

UNED - Universidad Nacional de Educacion a Distancia, ES

Mobile search as the gateway for the future (i.e. mobile) internet

12:30 Lunch

afternoon Half-day excursion 19:00 Pizza party & Music

Wednesday 6 October

Session 6

09:00-9:50 Didier Sornette

ETH Zurich, CH

The dynamics of success and fame: YouTube, open source software, social

networks, cyber-risks

09:50-10:40 Enrico Gregori

National Research Council CNR Pisa, IT

The impact of IXPs on the AS-level topology structure of the Internet

10:40-11:10 Coffee break

Poster Session

11:10-12:00 Exhibition

Short Talks

12:00-12:15 Eduardo Altmann

Federal University of Rio Grande do Sul, BR

Language and collective social behaviour in Usenet discussion groups

12:15-12:30 Guenther Sagl

Research Studios Austria, Studio iSPACE, AT

Large-scale collective fluctuations: Human dynamics seen by a cellular network

12:30-14:30 Lunch

Session 7

14:30-15:20 Angel Sanchez

Universidad Carlos III, ES

Modelling human interactions on networks: Lessons learnt from theoretical and

experimental Games

Short Talks

15:20-15:35 Symeon Papavassiliou

National Technical University of Athens, GR

Interactions among physical, logical and social network viewpoints:

An autonomic evolutionary loop

15:35-15:50 Gian Mario Maggio

CREATE-NET, IT

Co-evolution of the Internet and the information society: A complex systems

perspective

15:50-16:05 Anna Chmiel

Warsaw University of Technology, PL

Flow of emotional messages in artificial social networks

16:10-16:40 Coffee break

Evening Lecture

16:40-17:40

Alessandro Vespignani Indiana University, US Computational modeling and the forecast of socio-technical systems

Forward Look Plenary Discussion

17:40-18:10 Discussion

20:00 Get-together & Conference Dinner

Thursday 7 October

Breakfast & Departure