BIFI2010 IVINTERNATIONAL CONGRESS

Networks: A framework for cross disciplinary applications

Zaragoza, Spain February 3-6, 2010

Program

Wednesday, February 3rd.

08:30-09:15/ Registration 09:15-09:45/ Opening Ceremony 09:45-10:45/ A. Vespignani

Predicting the behavior of technosocial systems.

10:45-11:05/ S. Gómez

Probabilistic framework for epidemic spreading in complex network.

11:05-11:25/ F. Radicchi

Explosive percolation in networks.

11:25-11:55/ Coffee Break

11:55-12:40/ M. Boguña

The metric structure of the Internet.

12:40-13:00/ R. Guimera Missing interactions, bogus

interactions, and the reconstruction of complex networks.

13:00-13:20/ J. Gleeson

The unreasonable effectiveness of tree-based theory for complex networks.

13:20-15:30/ Lunch

15:30-16:15/ J. -P. Onnela

Classifying networks using mesoscopic response functions.

16:15-16:35/ G. Baxter

Bootstrap percolation on complex networks.

16:35-16:55/ A. Baronchelli

Glass transition and random walks on complex energy landscapes.

16:55-17:25/ Coffee Break

17:25-17:45/ A. Lancichinetti

Community detection algorithms: A comparative analysis.

17:45-18:05/ A. P. Masucci

Information flow networks and the meaning of meaning.

18:05-18:25/ A. Robledo

Generalized thermodynamics underlying the laws of Zipf and Benford.

18:25-18:45/ Bernat Corominas

Murtra

Randomization of Directed Acyclic Networks.

19:00/ BIFI General Assembly (Only for BIFI Members)

Thursday, February 4rd.

09:15-10:00/ J. García-Ojalvo

Discriminating between functionally analogous genetic circuits.

10:00-10:20/ J. M. Buldu

Topology and evolution of RNA neutral networks.

10:20-10:40/ C. Rodríguez-Caso

When metabolism meets topology.

10:40-11:00/ J. A. Carrodeguas

Presenilin 1- associated protein: a link between mitochondria-mediated cell death and Alzheimer's disease?

11:00-11:30/ Coffee Break

11:30-12.15/ D. James Animal social network.

12:15-12:35/ D. Vilone

The peace mediators effect.

12:55-12:55/ J. Sienkiewicz Symmetry breaking in the model of isolation of communities.

12:55-13:15/ J. Borge-Holthoefer

Mapping the modular organization of complex networks.

13:15-15:30/ Lunch

15:30-16:15/ F.C. Santos

Coordinating towards a common good.

16:15-16:35/ M. Salehi Motif structures and cooperation in real-world complex networks.

16:35-16:55/ S. Lee Emergence of collective memories.

16:55-17:15/ M. Galazka The UEFA Cup network.

17:15-17:45/ Coffee Break 18:00-19:30/ POSTER SESSION

19:30/ Get-together Social Event

Friday, February 5th.

09:15-10:00/ J. Kurths

Evolving complex networks: are such approaches useful for earth sciences?

10:00-10:20/ I. Leyva

Identifying functional overlapping communities by synchronization.

10:20-10:40/ G. Zamora-López

Functional integration and segregation in corticocortical networks.

10:40-11:10/ Coffee Break

11:10-11:55/ S. Boccaletti

Optimal regulation of synchronous states in complex networks.

11:55-12:15/ N. Fujiwara

Synchronization of networks of mobile oscillators.

12:15-12:35/ Z. Levnajic

Phase-resetting curves in ensembles of coupled oscillators.

12:35-12:55/ I. Sendiña-Nadal

Conditions for pinning regulation of synchrony in a complex network.

12:55-15:30/ Lunch

15:30-16:15/ S. Battiston

Liaisons dangereuses: how risk diversification leads to systemic risk.

16:15-16:35/ M. Morillo

Stochastic resonance and synchronization in driven arrays.

16:35-17:00/ Coffee Break

17:00-19:00/ COMPUTING **TUTORIAL**

19:15-21:00/ Visit to the Aljaferia Castle

Saturday, February 6th.

10:00-10:20/ C. Pellicer-Lostao Networks of economic interactions

driven by chaotic dynamics.

10:20-10:40/ R. Yalamova Traders' Network Topology and

Synchronization Dynamics Leading to Crashes.

10:40-11:00/ M. C. Romano

How to infer the topology of a network from time series.

11:00-11:20/ P. C. Marijuán

The making and breaking of social

11:20-11:40/ Coffee Break

11:40-12:00/ R. Criado

Some relationships between metric

and centrality measures of a network and its dual.

12:00-12:20/ S. Johnson

Information entropy and natural mixing in complex networks.

12:20-12:40/ T. Pérez

Phase clustering of delay-coupled diffusive phase oscillators on complex networks: functional vs anatomical communities in the C. Elegans.

12:40-13:10/ Conclussions











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