

# NETSCI 09 International Workshop and Conference on Complex Networks and their Applications

ISTITUTO VENETO SCIENZE LETTERE ED ARTI June 29 July 3 2009

## WORKSHOP PROGRAMME

08.30 - 09.00
09.00 - 10.00
10.00 - 11.00
11.00 - 11.20
11.20 - 12.20
12.20 - 12.50
12.50 - 14.20
14.20 - 15.20
15.20 - 16.20
16.20 - 16.40
16.40 - 17.40
17.40 - 18.10

Evening

MONDAY JUNE 29 <sup>th</sup>
Registration /Welcome
<a href="#">An Introduction to Complex Networks</a> <a href="#">Alain BARRAT</a>
COFFEE BREAK
<a href="#">An Introduction to Complex Networks</a> <a href="#">Alain BARRAT</a>
LUNCH
<a href="#">Economic models of Networks</a> <a href="#">Matthew O. JACKSON</a>
COFFEE BREAK
<a href="#">Economic models of Networks</a> <a href="#">Matthew O. JACKSON</a>
<b>VISIT TO ST. MARK'S BASILICA</b> <b>(English Guides)</b>

TUESDAY JUNE 30 <sup>th</sup>
<i>Biological Networks</i> <a href="#">Anne-Claude GAVIN</a>
COFFEE BREAK
<i>Biological Networks</i> <a href="#">ANNE-Claude GAVIN</a>
LUNCH
<a href="#">Social Networks and Human Nature</a> <a href="#">James FOWLER</a>
COFFEE BREAK
<a href="#">Social Networks and Human Nature</a> <a href="#">James FOWLER</a>

# NETSCI 09 International Workshop and Conference on Complex Networks and their Applications

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## CONFERENCE PROGRAMME

	WEDNESDAY JULY 1 <sup>st</sup>	THURSDAY JULY 2 <sup>nd</sup>	FRIDAY JULY 3 <sup>rd</sup>
08.30 - 09.00	<b>Registration &amp; Opening</b>	CHAIR: A Vespignani  <u>Switching Phenomena And Statistical Networks: A Case Study From The Stock Market</u> H. Eugene STANLEY	CHAIR: HE Stanley  <u>Multiscale networks and forecasting techno-social systems: Planning for pandemic outbreaks in real time</u> Alessandro VESPIGNANI
09.00 - 09.30	CHAIR: V. Colizza  <u>Percolation on correlated networks</u> José F. MENDES	<i>Tba</i> Joshua LO SPINOSO	
09.30 - 10.00	<u>The entropy of network ensembles</u> Ginestra BIANCONI	<i>Interaction networks in genetic and ecology</i> Amos MARITAN	<i>Tracking dollars and disease: On the brink of real-time epidemic forecasts</i> Dirk BROCKMANN
10.00 - 10.20	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK
10.20 - 12.00	<i>PARALLEL SESSIONS 1</i>	<i>PARALLEL SESSIONS 3</i>	<i>PARALLEL SESSIONS 5</i>
12.00 - 13.30	LUNCH	LUNCH	LUNCH
13.30 - 14.00	CHAIR: J Fowler  <u>Explosive percolation &amp; mixed phase transitions</u> Raissa D'SOUZA	CHAIR: G Caldarelli  <u>Economic Networks: Micro and Macro Perspectives</u> Frank SCHWEITZER	CHAIR: S Havlin  <i>Cooperation and Conflict in the Prisoner's Dilemma and the Emergence of Norms</i> Dirk HELBING
14.00 - 14.30	<u>Novel Percolation Models in Complex Networks</u> Shlomo HAVLIN	<u>Modeling large social networks</u> Janos KERTESZ	<u>The query-flow graph</u> Debora DONATO

14.30 - 15.00

15.00 - 15.20

15.20 - 17.05

17.10 - 17.40

17.40 - 18.10

EVENING

*Tba*  
**Bruce WEST**

COFFEE BREAK

*PARALLEL SESSIONS 2*

*POSTER SESSION*

*POSTER SESSION*

**(20.00) SOCIAL DINNER**  
[dress code: formal]

*Agents in a global Networks*  
Luciano PIETRONERO

COFFEE BREAK

*PARALLEL SESSIONS 4*

*POSTER SESSION*

*POSTER SESSION*

**(19.00) CONNECTED (MOVIE)**

Patterns in human-related systems  
Kwang-Il GOH

COFFEE BREAK

*PARALLEL SESSIONS 6*

*Tbc*

A.-László BARABÁSI

### WEDNESDAY 1 July morning (Sessions 1-X)

Location	Sala del Portego	Giardino	Mezzanino	Caminetto
<b>Chairman</b>		A Chessa	A-C Gavin	A Barrat
<b>Topic</b>	SESSION 1-A Theory and Environment	SESSION 1-B Organization	SESSION 1-C Biology	SESSION 1-D Communication on networks
10.20-10.35	Yong-Yeol Ahn, James Bagrow and Sune Lehmann. <a href="#">Hierarchical Link Clustering in Complex Networks</a>	Andrea Mario Lavezzi and Nicola Meccheri. <a href="#">Transitions Out of Unemployment: the Role of Social Networks' Topology and Firms' Recruitment Strategies</a>	Mario Chavez, Miguel Valencia, Vito Latora and Jacques Martinerie. <a href="#">Functional modularity of spontaneous activities in normal and epileptic brain network</a>	Rafael Brune, Christian Thiemann and Dirk Brockmann. <a href="#">Universality and the Lack of it in Multiscale Human Mobility Networks</a>
10.35-10.50	Joel Tenenbaum, H. Eugene Stanley and Shlomo Havlin. <a href="#">Correlation Networks of Earthquakes</a>	Carlos Lever. <a href="#">A model of political campaigns, advertising and lobbying over networks</a>	Marcus Kaiser, Claus Hilgetag and Arjen van Ooyen. <a href="#">No guidance needed: development of realistic spatial neural networks through competition and random growth</a>	Juan Pablo Cárdenas, Mary Luz Mouronte, Luis Moyano, Maria Luisa Vargas and Rosa M. Benito. <a href="#">Complexity and Robustness in the Spanish Optical Telecommunication Network</a>
10.50-11.05	Antonio Santiago, Juan Pablo Cárdenas, Ana María Tarquis, Juan Carlos Losada, Florentino Borondo and Rosa M. Benito. <a href="#">Heterogeneous complex network formalism. Application to porous structure of soils</a>	Hyung Jun Park. <a href="#">Self-Organization, Collaborative Regional Governance and Network</a>	Jennifer Simonotto, Stephen Eglen, Marcus Kaiser, Christopher Adams and Evelyne Sernagor. <a href="#">Analysis of spontaneous activity patterns in developing retina: extracting and analyzing dynamical networks</a>	David Hachen and Omar Lizardo. <a href="#">Correlates of Reciprocity in a Large-Scale Communication Network: A Weighted Edge Approach</a>
11.05-11.20	John Volpe. <a href="#">Sustainability and the myth of efficiency</a>	Muhittin Mungan and Jose J. Ramasco. <a href="#">Who is keeping you in that community?</a>	Petra E Vertes and Tom Duke. <a href="#">The Effect of Network Topology on Pattern Recognition in Neural Networks</a>	R. Carvalho, L. Buzna, F. Bono, E. Gutierrez, W. Just, D. Arrowsmith. <a href="#">Robustness of Trans-European Gas Networks: The Hot Backbone</a>
11.20-11.35	Sergey Dorogovtsev, Jose Mendes, Alexander Samukhin and Alexander Zyuzin. <a href="#">Organization and function of modular networks</a>	Pietro Panzarasa and Bernard Kujawski. <a href="#">Cognitive similarity and patterns of communication: Network and content analysis of an online forum</a>	Christian Darabos, Ferdinando Di Cunto, Marco Tomassini, Paolo Provero and Mario Giacobini. <a href="#">Generalized Boolean Networks with Topology Driven Dynamics</a>	Cecile Cartozo and Paolo De Los Rios. <a href="#">Extended navigability of small world networks: exact results and new insights</a>
11.35-11.50	Alan Taylor, Desmond Higham, Ernesto Estrada and Jonathan Crofts. <a href="#">Mapping Directed Networks</a>	Carlo Gianelle and Giancarlo Ruffo. <a href="#">Discovering the network topology of labor mobility: structural determinants and directions for policy</a>		Ying Fan and Zengru Di. <a href="#">Insight to the Express Transport Network</a>

**WEDNESDAY 1 July afternoon (Sessions 2-X)**

<b>Location</b>	<b>Sala del Portego</b>	<b>Giardino</b>	<b>Mezzanino</b>	<b>S. Vidal</b>
<b>Chairman</b>	R Pastor-Satorras	G Bianconi	A Maritan	S.Uhlig
<b>Topic</b>	<i>Indiana University</i> SESSION 2-A <i>On Epidemics</i>	SESSION 2-B Theory	SESSION 2-C Biology	SESSION 2-D Co-organized with SIMPLEX
15.20-15.35	Luis Enrique Correa da Rocha and Petter Holme. <a href="#">Assessing sexual networks of prostitution from a web community</a>	Gergely Palla, Tamas Vicsek and Laszlo Lovasz. <a href="#">A General Graph Generator</a>	Pedro Rafael Costa, Marcio Luis Acencio and Ney Lemke. <a href="#">Network topology-based prediction of morbid and druggable genes</a>	Hao Hu, Steven Myers, Vittoria Colizza and Alessandro Vespignani. <a href="#">WiFi Networks and Malware Epidemiology</a>
15.35-15.50	Stefan Wieland, Tomás Aquino and Ana Nunes. <a href="#">The Effect of SIS Dynamics with Contact Switching on Contact Network Topology</a>	Mark Dickison, Roni Parshani, Gene Stanley, Reuven Cohen and Shlomo Havlin. <a href="#">Dynamic networks and directed percolation</a>	A. V. Goltsev, F. V. de Abreu, S. N. Dorogovtsev and J. F. F. Mendes. <a href="#">Stochastic model of neural networks</a>	Pu Wang, Marta González, César Hidalgo and Albert-László Barabási. <a href="#">Understanding the spreading patterns of mobile phone viruses</a>
15.50-16.05	F. Natale, L. Savini, Diana Palma, P. Calistri, Armando Giovannini, L. Possenti, D. Zippo G. Fiore. <a href="#">Network based tools for tracing livestock movements for disease outbreaks</a>	Massimo Ostilli and Jose' Fernando Mendes. <a href="#">Communication and correlation among communities</a>	Sung-Guk Han, Su-Chan Park and Beom Jun Kim. <a href="#">Reentrant phase transition in a predator-prey model</a>	Steve Uhlig and Almerima Jamakovic. <a href="#">On the trade-off between efficiency and robustness in communication networks</a>
16.05-16.20	Matthew Vernon and Matt Keeling. <a href="#">Individual and network models of infectious diseases of cattle</a>	I. McCulloh and J. Siskey. <a href="#">Network Topology Effects on Correlation between Centrality Measures</a>	Phillip P. A. Staniczenko, Nick S. Jones and Felix Reed-Tsochas. <a href="#">Local trophic adaptation requires a new approach to ecological robustness and keystone species identification</a>	Pan Hui, Nishanth Sastry, Steve Uhlig and Jon Crowcroft. <a href="#">LENS: Leveraging Network Science to Identify Malicious Users in Communication Networks</a>
16.20-16.35	D. Bisanzio, L. Bertolotti, A. Mannelli, C. Ragagli, G. Amore, L. Tomassone, P. Provero and M. Giacobini. <a href="#">On the modelling of epidemic spreading in vector-host systems</a>	Andrea Lancichinetti and Santo Fortunato. <a href="#">Benchmark graphs for community detection algorithms</a>	V. Belcastro, L. Cutillo, F. Gregoretti, G. Oliva and D. di Bernardo. <a href="#">Untangling biological complexity: inference and analysis of a global network of gene-gene regulation in human cells</a>	Alain Barrat, Ciro Cattuto, Vittoria Colizza, Jean-Francois Pinton, Wouter Van den Broeck and Alessandro Vespignani. <a href="#">High resolution dynamical mapping of social interactions with active RFID</a>
16.35-16.50	Jose Marcelino and Marcus Kaiser. <a href="#">Controlling spreading: Improved strategies for airline, social, and neural networks by edge removal.</a>	Renaud Lambiotte, Jean-Charles Delvenne and Mauricio Barahona. <a href="#">Laplacian Dynamics and Multiscale Modular Structure in Networks</a>	Gareth Baxter and Marcus Frean. <a href="#">Mutation and Selection on Graphs</a>	Christian Thiemann, Daniel Grady and Dirk Brockmann. <a href="#">Tour de Sys: The Traveler's View of a Network</a>
16.50-17.05	Tiziano Squartini and Diego Garlaschelli. <a href="#">Exact method for randomizing real networks</a>	Nicola Perra, Vinko Zlatic, Alessandro Chessa, Claudio Conti, Debora Donato and Guido Caldarelli. <a href="#">Localization of the PageRank in the WWW as disordered potential problem</a>		Andrea Apolloni, Karthik Channakeshava, Lisa Durbeck, Maleq Khan, Chris Kuhlman, Bryan Lewis and Samarth Swarup. <a href="#">Diffusion of Information Through Private Communication in Realistic Social Networks</a>

## THURSDAY 2 July morning (Sessions 3-X)

Location	Sala del Portego	Giardino	Mezzanino	S. Vidal
<b>Chairman</b>			D Donato	J Kertesz
<b>Topic</b>	SESSION 3-A Theory	SESSION 3-B Economics	SESSION 3-C Social	SESSION 3-D Social
10.20-10.35	Alexander Samukhin, Sergey Dorogovtsev and Jose-Fernando Mendes. <a href="#">Spectral properties of uncorrelated random networks</a>	Gal Oestreicher-Singer and Arun Sundararajan. <a href="#">The Visible Hand of Social Networks in Electronic Markets</a>	James Bagrow. <a href="#">Non-traditional network visualization methods</a>	Alexander Mehler. <a href="#">A Quantitative Graph Model of Social Ontologies</a>
10.35-10.50	Karsten Steinhaeuser, Nitesh Chawla and Auroop Ganguly. <a href="#">Discovery of Climate Patterns with Complex Networks</a>	Katherine Krumme. <a href="#">Social and Economic Dynamics in an Online Peer-to-Peer Lending Network</a>	Stefan Hennemann. <a href="#">Measuring regional scientific knowledge flows – Contributions of spatial sub-units to the networking performance of metropolitan regions</a>	Elka Korutcheva and Kostadin Koroutchev. <a href="#">Statistical Mechanics of Texts: Message Passing Approach</a>
10.50-11.05	Sune Lehmann, Yong-Yeol Ahn and James P Bagrow. <a href="#">Link clustering using Partition Density</a>	Cesar A. Hidalgo and Ricardo Hausmann. <a href="#">Economic Complexity and Economic Development</a>	Gergely Palla, Illes Farkas, Peter Pollner, Imre Derenyi and Tamas Vicsek. <a href="#">Statistical features and self-similar properties of tagged networks</a>	Y. Hayashi. <a href="#">Robust &amp; efficient design of geographical networks according to a population density</a>
11.05-11.20	Alexander Mehler, Matthias Dehmer and Frank Emmert-Streib. <a href="#">On Network Entropies : A Comparative Study</a>	Sinan Aral, Lev Muchnik and Arun Sundararajan. <a href="#">Influence Dynamics in Large Complex Networks</a>	Vinko Zlatic. <a href="#">Hypergraph topological quantities for tagged systems</a>	Mason Porter. <a href="#">Community Structure in Online Collegiate Social Networks</a>
11.20-11.35	Matti Peltomäki, Juha-Matti Koljonen, Mikko Alava and Olav Tirkkonen. <a href="#">Self-organized graph coloring.</a>	Stefania Vitali, James Glattfelder and Stefano Battiston. <a href="#">The Network of Global Corporate Control</a>	Gautier Krings and Francesco Calabrese. <a href="#">Micro- and macro-networks: how do groups of nodes interact?</a>	Alejandro Morales Gallardo and Dirk Brockmann. <a href="#">Network-network duality - The impact of social network structures on metapopulation models for disease dynamics</a>
11.35-11.50	Ian McCulloh, Joshua Lospinoso and Natalia Mendoza. <a href="#">Actor-Oriented Specification to Validate Simulation of Complex Networks</a>	Stefano Battiston, Domenico Delli Gatti, Mauro Gallegati, Joseph Stiglitz and Bruce Greenwald. <a href="#">Liaisons Dangereuses: Increasing Connectivity, Risk Sharing, and Systemic Risk.</a>	Haibo Hu and Xiaofan Wang. <a href="#">How people make friends in online social networking sites?—A microscopic perspective</a>	Masashi Iwakami and Takayuki Ito. <a href="#">Analyzing Network Structure of Borrowers and Lenders in Social Lending</a>

**THURSDAY 2 July afternoon (Sessions 4-X)**

Location	Sala del Portego	Giardino	Mezzanino	S. Vidal
<b>Chairman</b>	J F Mendes	R D'Souza	D Brockmann	L Pietronero
<b>Topic</b>	SESSION 4-A Theory	SESSION 4-B Percolation on Nets	<i>Indiana University</i> SESSION 4-C <i>On Epidemics</i>	SESSION 4-D Society
15.20-15.35	M. Ángeles Serrano. <a href="#">Rich-club vs rich-multipolarization phenomena in weighted networks</a>	Eduardo Lopez. <a href="#">Limited path percolation phase transition: How violently does a system get disconnected?</a>	Hugues Bersini. <a href="#">Immunologists : The true pioneers of the « new » science of complex networks</a>	S. Arbesman and N. Christakis. <a href="#">Leadership Insularity: connectivity and insularity between central nodes in networks</a>
15.35-15.50	J.J. Ramasco, T. Opsahl, P. Panzarasa and V. Colizza. <a href="#">Prominence and control: The weighted rich-club effect</a>	Elizabeth Leicht and Raissa D'Souza. <a href="#">Percolation on interacting networks</a>	Eiko Yoneki and Jon Crowcroft. <a href="#">GIS: Geographical Information Cascade in Online Social Networks</a>	Olga Pustynnikov and Kirill Medvedev. <a href="#">Information Flow in Morphological Derivation Networks</a>
15.50-16.05	Karen Shoop and Raul Mondragon. <a href="#">One size fits all? Evaluating null models for academic networks</a>	Soon-Hyung Yook and Yup Kim. <a href="#">Percolation transition of the synchronized cluster on complex networks</a>	G. Zschaler, A. Mora T. Gross. <a href="#">Dynamics of a SIRS epidemic model on an adaptive network</a>	Takashi Iba and Satoshi Itoh. <a href="#">Sequential Collaboration Network of Open Collaboration</a>
16.05-16.20	V. Zlatić, G. Caldarelli <a href="#">Randomization Procedure and Rich Club coefficient</a>	Jun Wu, Yuejin Tan and Hongzhong Deng. <a href="#">Model for Invulnerability of Complex Networks with Incomplete Information based on Unequal Probability Sampling</a>	B. Goncalves, M. Ajelli, D. Balcan, V. Colizza, H. Hu, Jose J. Ramasco, S. Merler and A. Vespignani. <a href="#">Comparing large-scale computational approaches to epidemic modeling: Agent based versus structured metapopulation models.</a>	Maximilian Schich. <a href="#">Evaluating Cultural Heritage Databases Using Degree Matrices</a>
16.20-16.35	Ernesto Estrada and Naomichi Hatano. <a href="#">From Networks to Hypernetworks</a>	Jun Wu, Yuejin Tan and Mauricio Barahona. <a href="#">Robustness of Regular Graphs Based on Natural Connectivity</a>	D. Balcan, V. Colizza, B. Goncalves, H. Hu, J. Ramasco and A. Vespignani. <a href="#">Multiscale mobility networks and the large scale spreading of infectious diseases</a>	F. Lombardo, Isabella Daidone <a href="#">Museum Network as a Complex Web</a>
16.35-16.50	D. Garlaschelli, T. Squartini and M. Loffredo. <a href="#">Generalized Bose-Fermi statistics &amp; structural correlations in weighted nets</a>	Sergey Melnik and James Gleeson. <a href="#">Analytical results for bond percolation on clustered random networks</a>	K. Robinson, T. Cohen and C. Colijn. <a href="#">Infection Subgraphs of Dynamic Sexual Contact Networks</a>	
16.50-17.05	Pietro De Lellis, Mario di Bernardo and Francesco Garofalo. <a href="#">Consensus and Synchronization of Complex Networks: theory and applications</a>	Jun Wu, Yuejin Tan and Mauricio Barahona. <a href="#">Robustness of Random Graphs Based on Natural Connectivity</a>	S. Merler and M. Ajelli. <a href="#">Factors affecting the spread of an epidemic in Europe: population heterogeneity and human mobility</a>	

**FRIDAY 3 July morning (Sessions 5-X)**

<b>Location</b>	<b>Sala del Portego</b>	<b>Giardino</b>	<b>Mezzanino</b>	<b>S. Vidal</b>
<b>Chairman</b>	K-I Goh		F Schweitzer	V Colizza
<b>Topic</b>	SESSION 5-A Biology & Health	SESSION 5-B Organization	SESSION 5-C Economics & Society	SESSION 5-D Mobility & Infrastructures
10.20-10.35	Guillaume Chelius, Antoine Fraboulet, Eric Fleury and Jean-Christophe Lucet. <a href="#">A wireless sensor network to measure the health care workers exposure to tuberculosis</a>	Francesca Odella. <a href="#">Dimensions of Confidentiality in Group Communication: a Network Perspective</a>	Vasco M. Carvalho. <a href="#">Structure and Change in U.S. Commodity Networks</a>	Adolfo Paolo Masucci, Duncan Smith, Andrew Crooks and Michael Batty. <a href="#">Random planar graphs and the London street network</a>
10.35-10.50	Natali Gulbahce and Albert-Laszlo Barabasi. <a href="#">Viral Disease Networks</a>	Cristina Martelli and Stefania Rodella. <a href="#">Networking administrative data(bases): a common good for public memory, a public policy for transparency and democracy</a>	Fabrizio Lillo, Rosario N. Mantegna, Jyrki Piilo and Michele Tumminello. <a href="#">Network of investors acting in a financial market</a>	Rae Zimmerman. <a href="#">Applying Network Theory to Urban Infrastructure</a>
10.50-11.05	Francesco Iorio, Roberta Bosotti, Antonella Isacchi, Emanuela Scacheri and Diego di Bernardo. <a href="#">DRUG NETWORKS: A network approach to study drugs and their mode of action</a>	Ken Suzuki. <a href="#">Proposing a New Currency System Using Network of Transactions</a>	Floriana Gargiulo. <a href="#">The diffusion of innovative ideas in dynamical scenarios</a>	Daniele De Martino. <a href="#">Congestion phenomena on complex networks</a>
11.05-11.20	César Hidalgo, Nicholas Blumm, Albert-László Barabási and Nicholas Christakis. <a href="#">The Phenotypic Disease Network</a>	Jason Boorn, Debra Goldberg. <a href="#">I'm Like You, Just Not in That Way: Trust Networks to Improve Collaborative Filtering</a>	Eocman Lee, Jeho Lee, Jiwhan Lee and Dan Braha. <a href="#">Emergent Properties of Learning Dynamics on Hierarchical Networks</a>	Giovanni Petri, Henrik J. Jensen and John W. Polak. <a href="#">Congestion and information in traffic networks: dynamical percolation?</a>
11.20-11.35	Sebastian Ahnert, Thomas Fink, Andrei Zinovyev. <a href="#">Growth model for regulatory networks predicts lower bound on non-coding DNA in eukaryotes</a>	Michela Ferron, Paolo Massa and Francesca Odella. <a href="#">Supporting Collaborative Networks in Organizational Settings using an Enterprise 2.0 platform</a>	Gerd Zschaler and Thilo Gross. <a href="#">"Rich stays rich" and full cooperation in the snowdrift game on an adaptive network</a>	Gautier Krings, Francesco Calabrese, Carlo Ratti and Vincent Blondel. <a href="#">Gravity model in inter-city communication network</a>
11.35-11.50	Andrzej Nowak, Wieslaw Bartkowski and Robin Vallacher. <a href="#">Dynamics of evaluation in the construction of shared reality</a>	Di Zengru and Ying Fan. <a href="#">Scaling Properties in Spatial Networks and its Effects on Topology and Traffic Dynamics</a>	K. Rakocy, J. Zajac and A. Nowak. <a href="#">Modelling epidemic diffusion considering change in behaviour. The case study of Poland</a>	Di Zengru and Ying Fan. <a href="#">Scaling Properties in Spatial Networks and its Effects on Topology and Traffic Dynamics</a>

## FRIDAY 3 July afternoon (Sessions 6-X)

Location	Sala del Portego	Giardino	Mezzanino	S. Vidal
<b>Chairman</b>	D Garlaschelli	M. Santarelli	A Chessa	JJ Ramasco
<b>Topic</b>	SESSION 6-A Dynamics	SESSION 6-B COMPANIES MEET ACADEMIA	SESSION 6-C Theory	SESSION 6-D Mobility & Infrastructures
15.20-15.35	Jean-Jacques Slotine. <a href="#">STRUCTURAL PRINCIPLES FOR DYNAMICAL NETWORKS</a>	Di MICHELE (ENEL) TBA	Byungjoon Min, Kwang-Il Goh and In-Mook Kim. <a href="#">Waiting time dynamics of priority-queue networks</a>	Andrea Baronchelli, Michele Catanzaro and Romualdo Pastor-Satorras. <a href="#">Random Walks On Complex Trees</a>
15.35-15.50	C.-K. Yun, N. Masuda, C. Choi and Byungnam Kahng. <a href="#">Aggregation and condensation of dynamic clusters on complex networks</a>		Romualdo Pastor-Satorras, Isabel Corominas and M. Carmen Miguel. <a href="#">Percolation analysis of force networks in anisotropic granular matter</a>	Andrea Gabrielli and Guido Caldarelli. <a href="#">Invasion percolation on a tree and queueing models</a>
15.50-16.05	Thomas Gorochowski. <a href="#">Dynamics of evolving complex networks</a>	Simone FEDELI (Mx Group)	Ingo Scholtes <a href="#">Breathing Life into Networks: Harnessing Complexity in Massive-Scale Networked Computing</a>	Vincent David and Dirk Brockmann. <a href="#">Spatial scale in human mobility networks - What can we learn from renormalization?</a>
16.05-16.20	Daqing Li and Shlomo Havlin. <a href="#">Overlapping Synchronization</a>		Thomas Fink <a href="#">Exact solution of the critical Kauffman model with connectivity one</a>	Dashun Wang, Cesar Hidalgo, James Bagrow and Albert-Laszlo Barabasi. <a href="#">Social Mobility, of the Network Kind</a>
16.20-16.35	Romualdo Pastor-Satorras and Andrea Baronchelli. <a href="#">Effects of mobility on ordering dynamics</a>		Marian Boguna. <a href="#">From lattices to small-worlds and back again or how we got rid of the Euclidean geometry to fall into the hyperbolic plane</a>	ROUND TABLE
16.35-16.50	Fabio Caccioli and Luca Dall'Asta. <a href="#">Non-equilibrium mean-field theories on scale-free networks</a>		Anthony Johnson and Marc Anthony Johnson. <a href="#">Longitudinal Analysis of a Chess Match</a>	ROUND TABLE
16.50-17.05	Matteo Cavaliere, Attila Csikász-Nagy, Tarcisio Fedrizzi and Ferenc Jordán. <a href="#">Games generating networks</a>		Bin Liu, Ton Coolen, Xiaoyue Wu and Hongzhong Deng. <a href="#">Robustness of semi-directed networks</a>	ROUND TABLE

## POSTERS

### Networks in Biology

- 1) Sumeet Agarwal, Nick Jones, Charlotte Deane and Mason Porter. [Node and link roles in protein interaction networks](#)
- 2) Mônica G. Campiteli, Frederico Soriani and Gustavo H. Goldman. [The role of the gene ATM \(Ataxia Telangiectasia Mutated\) in the co-expression network of the model organism Aspergillus nidulans.](#)
- 3) Wojciech Borkowski. [How Food Networks Emerge From A Multispecies Predator-Prey Microsimulation?](#)
- 4) Vera Pancaldi and Jürg Bähler. [Prediction of fission yeast protein-protein interactions based on gene and protein information](#)
- 5) Detlef Holstein, F. V. de Abreu, S. N. Dorogovtsev, J. F. F. Mendes and A. V. Goltsev. [Simulations of stochastic dynamics of a neural network model](#)
- 6) Xin Lu, L. Bengtsson, Tom Britton, M. Camitz, Beom Jun Kim, Anna Thorson and Fredrik Liljeros. [Evaluating efficiency of Respondent-driven sampling on a gay men web community](#)

### Networks in Health, Society, and Environment

- 1) Stefan Wieland. [Equilibrium topologies of adaptive contact networks with SIS dynamics](#)
- 2) Mariko Hanabusa and Takashi Iba. [Analysis on Collaboration Data of Voice Actors in Anime](#)
- 3) Jin S. Kim, Byungnam Kahng and Doochul Kim. [Power laws and network representation of the seismic records in Sichuan](#)
- 4) Danica Vukadinovic Greetham, Abhijit Sengupta and Juliette Richetin. [Simulating Social Networks Influences on Physical Activity Behaviour](#)
- 5) Satoshi Itoh, Takaichi Ito, Kenji Kumasaka and Takashi Iba. [Analyzing Collaboration Network of Editors in Japanese Wikipedia](#)
- 6) Nicola Perra, Giancarlo Cappellini, Alessandro Chessa, Luigi Minerba and Gianni Mula. [A Data Mining Approach to Health Organization Problems](#)
- 7) Joao Oliveira and Alexei Vazquez. [Impact of interactions on human dynamics](#)
- 8) Hyun Keun Lee, P. Holme, Fredrik Liljeros and B. Jun Kim. [An effective master equation for susceptible-infected-susceptible model](#)

### Information Networks and Infrastructures

- 1) Dario Ghersi and Maurizio Filippone. [An efficiency analysis of the U.S. airport network](#)
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