

| Location | NetHum & NetSci VENEZIA S. VIDAL JUNE 30th |
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| | Network & Culture |
| 09.30-11.15 | Adaptation Of Town To Social Life |
| | Village & Life Cristian Di Paola, Raffaele Gentile |
| | Il caso del quartiere Avvocata a Napoli Daria Battista Los Barrios de Bogotà Colombia Elisa Maceratini |
| | Mutation & City: + Speakers |
| 11.00-13.30 | Mx Group - Il Progetto Fotovoltaico: un possibile Network |
| 14.30-15.45 | Leonardo Da Vinci Progetto vivere meglio Berta Martini, Lorenzo Braconi, Gianni Toccaceli |
| Sessione: UN NETWORK CHIAMATO MONDO: a cura di Marco Santarelli | |
| 16.00-16.15 | Saluto e introduzione del sindaco di Venezia Massimo Cacciari |
| 16.30-17.30 | Teoria sociologica, ricerca sociale e analisi delle reti. Progetto redatto, sviluppato e coordinato dal prof. Salvini |
| 17.30-20 .00 | Tavola rotonda con M. Santarelli, Albert-László Barabási, A. Vespignani, L. Pietronero, S. Zabala G. De Michele modera M. Buchanan. Introduce M. Cacciari. |

Program SIMPLEX
VENEZIA S. VIDAL
1st JULY

10:15 - 10:20 Opening Remarks

10:20 - 12:00 Simplex session

- ***A Likelihood Based Framework for Assessing Network Evolution Models Tested on Real Network Data.*** Richard Clegg, Raul Landa Uli Harder and Miguel Rio
- ***Simplifying Large Networks Conserving Path Diversity.*** Ling Liu and Raul Mondragon
- ***Comparison of Network Criticality, Algebraic Connectivity, and other Graph Metrics.*** Alireza Bigdeli, Ali Tizghadam and Alberto Leon-Garcia
- ***Social Network Aided Multicast Delivery Scheme for Human Contact-Based Networks.*** Mooi Choo Chuah

12:00 - 13:30 Lunch

13:30 - 15:00 Tutorial session on "Network data and methodology: where should we go?"

- **Fabio Ricciato (University of Lecce/FTW):** *cellular phone*
- **Pan Hui (T-labs):** *mobility and wireless*
- **Steve Uhlig (T-labs):** *fixed backbone networks*

15:00 - 15:20 Coffee break

15:20 - 17:20 Joint Simplex-NetSci session

- ***WiFi Networks and Malware Epidemiology.*** Hao Hu, Steven Myers, Vittoria Colizza and Alessandro Vespignani
- ***Understanding the Spreading Patterns of Mobile Phone Viruses.*** Pu Wang, Marta González, César Hidalgo and Albert-László Barabási
- ***On the Trade-off Between Efficiency and Robustness in Communication Networks.*** Steve Uhlig and Almerima Jamakovic
- ***LENS: Leveraging Network Science to Identify Malicious Users in Communication Networks.*** Pan Hui, Nishanth Sastry, Steve Uhlig and Jon Crowcroft
- ***High Resolution Dynamical Mapping of Social Interactions with Active RFID.*** Alain Barrat, Ciro Cattuto, Vittoria Colizza, Jean-Francois Pinton, Wouter Van den Broeck and Alessandro Vespignani
- ***A Wireless Sensor Network to Measure the Health Care Workers Exposure to Tuberculosis.*** Guillaume Chelius, Antoine Fraboulet, Éric Fleury and Jean-Christophe Lucet
- ***Diffusion of Information Through Private Communication in Realistic Social Networks.*** Andrea Apolloni, Karthik Channakeshava, Lisa Durbeck Maleq Khan, Chris Kuhlman, Bryan Lewis and Samarth Swarup
- ***Organization and Function of Modular Networks.*** Sergey Dorogovtsev, Jose Mendes, Alexander Samukhin and Alexander Zyuzin

17:20 - 18:20 Panel "Bridging network science and communication networks"

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| 10.20 - 12.00 <u>NETSCI PARALLEL SESSION # 3D</u> |
| 12.00 - 13.30 |
| 13.30 - 14.15 |
| 14.15 - 15.00 |
| 15.00 - 15.20 |
| 15.20 - 17.00 <u>NETSCI PARALLEL SESSION # 4D</u> |

| NETHUM VENEZIA S. VIDAL THURSDAY JULY 2 nd | |
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| 10.20-10.35 | Alexander Mehler. <u>A Quantitative Graph Model of Social Ontologies</u> |
| 10.35-10.50 | Elka Korutcheva and Kostadin Koroutchev. <u>Statistical Mechanics of Texts: Message Passing Approach</u> |
| 10.50-11.05 | Y. Hayashi. <u>Robust & efficient design of geographical networks according to population density</u> |
| 11.05-11.20 | Mason Porter. <u>Community Structure in Online Collegiate Social Networks</u> |
| 11.20-11.35 | Alejandro Morales Gallardo and Dirk Brockmann. <u>Network-network duality - The impact of social network structures on metapopulation models for disease dynamics</u> |
| 11.35-11.50 | Masashi Iwakami and Takayuki Ito. <u>Analyzing Network Structure of Borrowers and Lenders in Social Lending</u> |
| LUNCH | |
| <u>Artifact Networks</u> Maximilian Schich | |
| <i>Linguistic Networks in a Text-Technological Perspective</i> Alexander Mehler | |
| COFFEE BREAK | |
| 15.20-15.35 | S. Arbesman and N. Christakis. <u>Leadership Insularity: connectivity and insularity between central nodes in networks</u> |
| 15.35-15.50 | Filippo Radicchi, Santo Fortunato, Benjamin Markines and Alessandro Vespignani. <u>Reputation diffusion and the ranking of scientists</u> |
| 15.50-16.05 | Olga Pustyl'nikov and Kirill Medvedev. <u>Information Flow in Morphological Derivation Networks</u> |
| 16.05-16.20 | Takashi Iba and Satoshi Itoh. <u>Sequential Collaboration Network of Open Collaboration</u> |
| 16.20-16.35 | Maximilian Schich. <u>Evaluating Cultural Heritage Databases Using Degree Matrices</u> |
| 16.35-16.50 | F. Lombardo <u>The Museum Networks as a complex web</u> |

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| 08.30 - 09.00 |
| 09.00 - 09.30 |
| 09.30 - 10.00 |
| 10.00 - 10.20 |
| 10.20 - 12.00 <u>NETSCI PARALLEL SESSION # 5D</u> |
| 12.00 - 13.30 |
| 13.30 - 14.00 |
| 14.00 - 14.30 |
| 14.30 - 15.00 |
| 15.00 - 15.20 |
| 15.20 - 17.00 <u>NETSCI PARALLEL SESSION # 6D</u> |

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| WORKSHOP ON TRAFFIC VENEZIA S. VIDAL FRIDAY JULY 3 rd | |
| <i>Managing the Complexity of Large Logistic Transport Systems by bio-inspired strategies</i> <u>Dirk HELBING</u> | |
| <u>GPS data for car-driver mobility: toward traffic nowcasting</u> <u>Sandro RAMBALDI</u> | |
| COFFEE BREAK | |
| 10.20-10.35 | Adolfo Paolo Masucci, Duncan Smith, Andrew Crooks and Michael Batty. <u>Random planar graphs and the London street network</u> |
| 10.35-10.50 | Rae Zimmerman. <u>Applying Network Theory to Urban Infrastructure</u> |
| 10.50-11.05 | Daniele De Martino. <u>Congestion phenomena on complex networks</u> |
| 11.05-11.20 | Giovanni Petri, Henrik J. Jensen and John W. Polak. <u>Congestion and information in traffic networks: dynamical percolation?</u> |
| 11.20-11.35 | Gautier Krings, Francesco Calabrese, Carlo Ratti and Vincent Blondel. <u>Gravity model in inter-city communication network</u> |
| 11.35-11.50 | Di Zengru and Ying Fan. <u>Scaling Properties in Spatial Networks and Effects on Topology & Traffic Dynamics</u> |
| LUNCH | |
| <u>Application of network theories to mobility planning</u> Giacomo TUFFANELLI (ATAC) | |
| <i>Tba</i> <u>Alessandro FLAMMINI</u> | |
| <u>Understanding individual mobility in urban context</u> <u>Armando BAZZANI</u> | |
| COFFEE BREAK | |
| 15.20-15.35 | Andrea Baronchelli, Michele Catanzaro and Romualdo Pastor-Satorras. <u>Random Walks On Complex Trees</u> |
| 15.35-15.50 | Andrea Gabrielli and Guido Caldarelli. <u>Invasion percolation on a tree and queueing models</u> |
| 15.50-16.05 | Vincent David and Dirk Brockmann. <u>Spatial scale in human mobility networks - What can we learn from renormalization?</u> |
| 16.05-16.20 | Dashun Wang, Cesar Hidalgo, James Bagrow and Albert-Laszlo Barabasi. <u>Social Mobility, of the Network Kind</u> |
| 16.20-17.05 | ROUND TABLE |