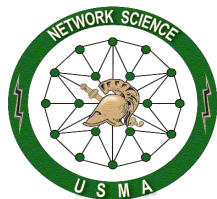


NetSci'08

International Workshop and Conference on Complex Networks and their Applications
23-27 June, 2008. Norwich Bioscience Institutes, NORWICH, UK

Network Science - Connecting Disciplines

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WORKSHOP:

	Monday 23 June WORKSHOP DAY 1	Tuesday 24 June WORKSHOP DAY 2	Satellite events	
9.00 - 12.30	Workshop 1. A Primer in Scale-Free Networks. Basic Definitions and Community Detection. G. Caldarelli. Rome, Italy	Workshop 3. The Economics of Networks. S. Goyal, Cambridge, UK	<i>Open Symposium of the 6th Framework EU project CREEN. (Critical Events in Evolving Networks)</i>	<i>Workshop on Network Science and Pervasive Computing. Cityware project</i>
12.30 - 13.30	Lunch	Lunch		
13.30 - 17.00	Workshop 2. Networks in Sociology and Communication. N. Contractor, USA	Workshop 4. Networks in Biology: Discovery, Analysis and Modelling. R. Albert, Penn State, USA		
17.00 - 18.00		A Tutorial on Network Workbench. R. Duhon, Univ. Indiana, USA		
18.00 - 19.00		Nibble and Mingle		
19.00 - 21.00		Opening Ceremony followed by Welcome Drink and Mix. Guest speaker: Ian Gibson, MP for Norwich North. <i>Sponsored by Science</i>		

CONFERENCE:

	Wednesday 25 June Theme: Network Theory and Its Applications to Health and Society			Thursday 26 June Theme: Planet Earth and Its Life <i>Sponsored by Unilever</i>			Friday 27 June Theme: Economy, Management and Communication. Sponsored by USMA	
	Morning session. Chair: Z. Toroczkai			Morning session. Chair: A-L Barabási			Morning session. Chair: G. Caldarelli	
9.00 – 10.00	Keynote of the Day: Eat, Drink, and Be Merry: The Spread of Obesity, Substance Use, and Happiness in Longitudinally Resolved Social Networks. N. Christakis, Harvard, USA. <i>Sponsored by Glaxo-Smith-Kline</i>			Conference Keynote: Networks and Their Dynamical Implications in Epidemiology, Ecology, and Evolution R. May, Oxford, UK.			Keynote of the Day: A Natural Experiment on the Origins of Human Dynamics: The Case of a Large Network of Business Elites. B. Uzzi, Chicago, USA.	
10.00 – 10.30	Invited talk 1.1: Networks in Space. M. Newman, Michigan, USA			Invited talk 2.1: Households to Global Air Travel: How Networks Shape Epidemics. N. Ferguson, London, UK			Invited talk 3.1: Correlation-based Networks in Finance. R. Mantegna, Palermo, Italy.	
10.30 – 10.50	Coffee break			Coffee break			Coffee break	
10.50 – 12.30	Parallel Sessions - Contributed Talks CT-1.1 Networks in Health and Society. Conv: N Christakis & V. Moulton CT-1.2 Neural Networks. Conv: Z. Toroczkai & A. Métris CT-1.3 Network Complexity. Conv: J.C. Claussen & T. Wilhelm			Parallel Sessions - Contributed Talks CT-2.1 Networks in Biology. Conv: Z. Oltvai & R. Morris CT-2.2 Epidemiology, Environment. Conv: V. Colizza & G. Barker CT-2.3 Network Theory II. Conv: R. Pastor-Satorras & C. Pin			Parallel Sessions - Contributed Talks CT-3.1 Organisation and Communication. Conv: B. Uzzi & A-L Barabási CT-3.2 Economy, Finance and Business. Conv: R Mantegna & P. Richmond	
12.30 - 13.30	Buffet lunch			Buffet lunch			Buffet lunch	
	Afternoon session. Chair: T. Wilhelm			Afternoon session. Chair: G. Barker			Afternoon session. Chair: B. Uzzi	
13.30 – 14.00	Invited talk 1.2: Structure and Modelling of Large-Scale Social Networks. J-P Onella, Oxford, UK			Invited talk 2.2 : Boolean Network Models for Biological Regulation: Prospects and Limitations. S. Bornholdt, Bremen, Germany			Special talk as Introduction to Discussion Panel: Network Science Applications to Global Communications. A-L Barabási, Northeastern University, USA	
14.00 – 14.30	Invited talk 1.3: Bosonic Dynamics in Complex Networks. R. Pastor-Satorras Barcelona, Spain			Invited talk 2.3: Mobility Patterns in Epidemic Modeling: Short and Long Range Coupling. V. Colizza, Torino, Italy			Beyond Academia - Success Stories and Opportunities. <i>In what areas of industry, business and governments have network science ideas been successfully implemented and where can we expect further applications?</i> Open Discussion. Participants: Unilever, USMA Network Science Center, Orange, Microsoft Research, Nature Networks, ... Moderator: B. Uzzi, Chicago, US	
14.30 – 15.00	Invited talk 1.4: Pathway Modelling in Metabolic Networks. S. Schuster, Jena, Germany			Invited talk 2.4: Constraints and Regulation of Metabolic Networks. Z. Oltvai, Pittsburgh, USA				
15.00 - 15.20	Coffee break			Coffee break				
15.20 – 17.00	Parallel Sessions - Contributed Talks CT-1.4 Network Theory I. Conv: M. Newman & J.P. Onnella CT-1.5 Networks in Society. Conv: G. Caldarelli & A. Magusin CT-1.6 CREEN Open Session. Conv: J. Holyst & J. Seers			Parallel Sessions - Contributed Talks CT-2.4 Computational Biology. Conv: S. Bornholdt & J. Kim CT-2.5 Visualisation of Networks. Conv: S. Uzzo & J. Seers CT-2.6 Network Theory III. Conv: Z. Toroczkai & A. Magusin				
17.00 - 18.00	Poster session			Poster session				

16.00 Close of Conference

**19.00 Conference Gala Dinner (St Andrews Hall).
Sponsored by IFR & JIC**

Parallel sessions - Contributed Talks CT1

Wednesday 25 June Theme: Network theory and its applications to Health and Society			
Lecture theater		Crick-Watson room	Wilkins-Franklin room
CT-1.1 Networks in Health and Society. Conv: N. Christakis & V. Moulton		CT-1.2 Neural Networks. Conv: Z. Toroczkaï & A. Métris	CT-1.3 Network Complexity. Conv: J-C Claussen & T. Wilhelm
10.50-11.10	1. Connections: The Nature of Networks. Bringing Network Science to the Public. <u>S. Uzzo</u>	Brain Network Topology During Successful Memory Encoding in a Real-life Experiment, <u>F. De Vico Fallani et al.</u>	Introduction to Network Complexity, <u>J. C. Claussen & T. Wilhelm</u>
11.10-11.30	2. Understanding Individual Human Mobility Patterns and Its Applications To Social Networks with Geographic Information, <u>M.C. González et al.</u>	Feedback Loops and Oscillations in Modular Hierarchical Brain Networks: The Topological Origin of Brain Rhythms, <u>M. Kaiser</u>	Beyond Modularity: Density Generalized Block Modeling, <u>J. Reichardt and D. R. White</u>
11.30-11.50	3. Controls Of Nosocomial Infection Based on Observed Social Networks of a Community Hospital, <u>N. Masuda and T. Ueno</u>	Complex Brain Networks, <u>J. J. Crofts et al.</u>	The Blind Watchmaker Network: Scale-freeness and evolution, <u>P. Minnhagen and S. Bernhardsson</u>
11.50-12.10	4. Assessing the Findability of High-quality Consumer Health Information Using Network Analysis, <u>D. A. Hunscher</u>	Prediction of Unknown Connections in Cortical Networks, <u>T. Nepusz et al.</u>	From the Complexity of Probability Distributions to Measures of Graph Complexity, <u>E. Olbrich et al.</u>
12.10-12.30	5. Is Social and Structural Prestige Associated with Current and Future Smoking? <u>J. Holliday et al.</u>	Emergence of Functional Modularity from Phenotypic Adaptation to Independent Constraints, <u>S. Sreenivasan and Z. Toroczkaï</u>	Information-theoretic Measure of Network Complexity, <u>A. Hintze and C. Adami</u>
CT-1.4 Network Theory I. Conv: M. Newman & J.P Onnela		CT-1.5 Networks in Society. Conv: G. Caldarelli & A. Magusin	CT-1.6 CREEN Open Session. Conv: J. Holyst & J. Seers
15.20-15.40	1. Exact Results and New Insights for Models Defined over Small-world Networks, <u>M. Ostilli and J. F. Mendes</u>	Communities in Legislative Networks, <u>M. A. Porter</u>	A Small Network with Two Distinct Communities : Neo Creationists vs. Evolution Defenders. Organizational and Dynamical Aspects of an Opinion Controversy, <u>M. Ausloos and A. G. C. Ross</u>
15.40-16.00	2. Cascades on Correlated and Modular Networks, <u>J. P. Gleeson and S. Melnik</u>	Mob.Media: A Mobile Phone Platform for Computational Social Science, <u>A. Madan and A. Pentland</u>	Who Wins a Group-Group Competition? Phase Transitions in Ising Models at Coupled Complex Networks, <u>K. Suchecki and J.A. Holyst</u>
16.00-16.20	3. Organization of Modular Networks, <u>S.N. Dorogovtsev et al.</u>	An Analysis of on-line Music Artist Network, <u>K. Jacobson et al.</u>	Nodes in Evolving Networks – Scientific Journals as a Case of Dynamic Animation, <u>L. Leydesdorff, T. Schank, A. Scharnhorst,</u>
16.20-16.40	4. Scale-Free Directed Networks from Threshold Model with Two Intrinsic Node Variables, <u>S. Shioda</u>	Network Analysis of Global Politics, <u>A. Z. Kamran</u>	Fast Unfolding of Community Hierarchies in Large Networks, <u>V. D. Blondel, J-L Guillaume, R. Lambiotte, and E. Lefebvre</u>
16.40-17.00	5. CFinder: Efficient Module Finder in Directed, Undirected and Weighted Networks, <u>D. Abel et al.</u>	Study of Wireless Epidemic Spread in Dynamic Human Connectivity Traces, <u>E. Yoneki and J. Crowcroft</u>	Voter Model on Sierpinski Fractals, <u>K. Suchecki and J.A.Holyst</u>

Parallel sessions - Contributed Talks CT2

Thursday 26 June			
Theme: Planet Earth and its Life. Sponsored by Unilever			
Lecture theater		Crick-Watson room	Wilkins-Franklin room
CT-2.1 Networks in Biology. Conv: Z. Oltvai & R. Morris		CT-2.2 Epidemiology, Environment. Conv: V. Colizza & G. Barker	CT-2.3 Network theory II. Conv: R. Pastor-Satorras & C. Pin
10.50-11.10	1. Network Method for the Recovery of Lost Cellular Function, <u>A. E. Motter et al.</u>	Environmental Regulation in Simulated Networks of Microbial Ecosystems, <u>H. Williams and T. Lenton</u>	Is Modularity the Answer to Evaluating Community Structure in Networks? <u>K. Steinhäuser and N. V. Chawla</u>
11.10-11.30	2. Viral Networks, Connecting Virus-Human Interaction Networks to Population Disease Patterns, <u>N Gulbahce & A-L Barabási</u>	Competing Spreading Processes on Networks – Even a Few Localized Edges Give You the Winning Edge, <u>Y. Berchenko and M. Teicher</u>	Bi-clique Communities, <u>S. Lehmann</u>
11.30-11.50	3. Novel Method for the Determination of Nutritional Requirements, <u>T. Handorf et al.</u>	Modelling Bipartite Cooperation in Ecological and Organizational Networks, <u>F. Reed-Tsochas et al.</u>	Color-Swap Models for Non-growing Scale-free Networks, <u>T. Hruz et al.</u>
11.50-12.10	4. Decomposition of Complex Reaction Networks into Reactions, <u>R. Plasson et al.</u>	A Contact Network Model of the Swiss Poultry Sector for Avian Influenza Preparedness, <u>L. Fiebig et al.</u>	Clustering Signatures Classify Directed Networks, <u>S. E. Ahnert and T. M. A. Fink</u>
12.10-12.30	5. Communicability and Bipartivity in Complex Networks at Negative Temperatures, <u>D. J. Higham et al.</u>	Neutral Degree Distributions in Complex Food Webs, <u>R. Williams</u>	Periodic Reordering of Complex Networks, <u>G. Kalna et al.</u>
CT-2.4 Computational biology. Conv: S. Bornholdt & J. Kim		CT-2.5 Visualisation. Conv: S. Uzzo & J. Seers	CT-2.6 Network theory III. Conv: Z. Toroczkai & A. Magusin
15.20-15.40	1. Network Topology Information-based Prediction of Human Disease Genes, <u>N. Lemke et al</u>	Generating 2-Dimensional Overviews from a Bi-Partite Classification of Images, <u>M. Schich and S. Lehmann</u>	Dynamic Transition in Coevolving Networks, <u>J. D. Noh and S. W. Kim</u>
15.40-16.00	2. Autocatalytic Replicators Embedded in Metabolic Networks, <u>B Papp et al.</u>	Visualizing and Analyzing Networks of Co-Purchased Books, CDs and DVDs, <u>T. Iba and M. Mori</u>	Diminishing Communities in Large Social and Information Networks, <u>J. Leskovec et al.</u>
16.00-16.20	3. Filtered Correlation Graphs to Select Gene Expression Profiles, <u>W-M Song et al.</u>	Rete-Netzwerk-Red: Network Workbench – Analyzing and Visualizing Scholarly Networks Extracted from Online Bibliographic Resources, <u>M. Linnemeier et al.</u>	The Entropy of Randomized Networks Ensembles, <u>G. Bianconi</u>
16.20-16.40	4. Discovering Mammalian Endocytic Pathways with High-Throughput Image-Based siRNA Screens and Network Analysis, <u>P. Rámö et al.</u>	Discovering and Visualizing Communities from Bipartite Social Networks, <u>T. Murata and T. Ikeya</u>	Unified Centrality Measure of Complex Networks, <u>S. H. Yook et al.</u>
16.40-17.00	5. Evolution of the Co-expression Network in Arabidopsis thaliana, <u>M. Schütte et al.</u>		Organization of Complex Networks, <u>M. Kitsak et al.</u>

Parallel sessions - Contributed Talks CT3

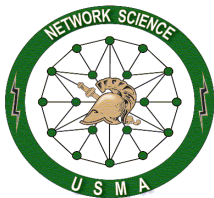
Friday 27 June		
Theme: Economy, Management and Communication. Sponsored by USMA		
	Crick-Watson room	Wilkins-Franklin room
	CT-3.1 Organisation and Communication. Conv: B. Uzzi & A-L Barabási	CT-3.2 Economy, Finance and Business. Conv: R Mantegna & P. Richmond
10.50-11.10	1. Mining Face-to-Face Interaction Networks Using Sociometric Badges: Evidence. Predicting Individual and Task Productivity in IT Configuration, <u>B. N. Waber et al.</u>	Finding Optimal Position of Facilities based on Population Density, <u>H. Jeong et al.</u>
11.10-11.30	2. The Dark side of Scale-free Networks in Organizational Learning, <u>J. Lee et al.</u>	Large-scale Structure of a Nation-wide Production Network and Chain of Bankruptcy, <u>Y. Fujiwara</u>
11.30-11.50	3. Co-Institution Collaboration Network on U.S. University Patents 1974-2004, <u>M. M. Clements and B. W. Herr</u>	A Random Walk through an On-Line Social Network. <u>S. Hardiman et al.</u>
11.50-12.10	4. Patterns of Scientific Collaboration in Business and Management: The Effects of Network Structure and Interdisciplinarity on Research Performance, <u>P. Panzarasa and T. Opsahl</u>	Non-equilibrium Process of the Random Exchange Model, <u>Y. Wang et al.</u>
12.10-12.30	5. Self-similarity in Voice Group Communications in Trunked Mobile Telephony, <u>D. G. Xenikos</u>	Evolution of Academic Knowledge Networks in Transition Economies - the Chinese perspective, <u>S. Hennemann</u>

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