DaMNet 2011 - The IEEE ICDM 2011 Workshop on Data Mining in Networks

December 11, 2011, Vancouver, Canada
http://damnet.reading.ac.uk/

Workshop Overview

The complexity of numerous social, biological, and communication systems is driving many researchers towards the adoption of data mining approaches. The characterization, management and control of complex networks are challenging tasks common to many areas of Science. The Workshop intends to facilitate the exchange of ideas between different research communities which share a common interest in extracting models and information from complex networks. The workshop focus will encompass data mining algorithms and applications for communication networks, such as peer-to-peer systems, mobile ad-hoc networks, wireless sensor networks, the World Wide Web, and other complex networks, such as social networks, metabolic networks, protein-protein interaction networks, citation networks, etc. The workshop is aimed at researchers in Computer Science and Communications as well as scientists from other disciplines like Mathematics, Biology, Neuroscience, etc., with an interest in the analysis and control of complex networks by means of Data Mining approaches. The workshop is co-located with ICDM 2011, the IEEE International Conference on Data Mining (http://icdm2011.cs.ualberta.ca/).

Important Dates

Workshop papers submission:	**August 12, 2011**
Notifications of paper acceptance:	September 20, 2011
Camera-ready papers:	October 11, 2011
Workshop date:	December 11, 2011

Topics of Interest

Contributions are sought in all Data Mining algorithms and applications in Networks, including computer networks and any other complex interconnected system. We also welcome submissions on reports on applications of particular interest.

Data Mining algorithms and frameworks:

- Algorithms for Massive Interconnected Systems
- Distributed Data Mining Algorithms
- Data Mining algorithms based on Gossip and Epidemic protocols
- Graph Mining
- Online Learning on Data Streams
- Bio-inspired Data Mining algorithms
- Communication Networks and Service Management
- Spontaneous and Opportunistic Communications
- Analysis, Modeling and Visualization of Complex Networks
- Dynamic and Evolving Networks
- Monitoring, Analysis, Management and Control of Distributed Systems, Federated Databases and Large-Scale Networked Applications

Application domains:

- Autonomous and Autonomic Networks
- Overlays and Virtual Networks
- Cognitive and Bio-inspired Networks
- Social Networks
- Peer-to-Peer (P2P) Systems
- Mobile ad-hoc Networks (MANET)
- Wireless Sensor Networks (WSN)
- Large-scale computing systems (Grid, Cloud, P2P, Volunteer Computing), Internet of Things
- World Wide Web and Internet Protocol data
- Networks in Bioinformatics and System Biology
- Neuroscience and biological neutral networks
- Graph Theory, scale-free and small-world networks
- Citation Networks and Bibliometrics
- Economic Networks

Workshop Chairs

Dr. Giuseppe Di Fatta
School of Systems Engineering
The University of Reading, UK
Email: G.DiFatta@reading.ac.uk

Prof. Antonio Liotta
Department of Electrical Engineering
Technical University Eindhoven, The Netherlands
E-mail: a.liotta@tue.nl

Submissions

Papers submitted to this workshop must not have been accepted for publication elsewhere or be under review for another workshop, conference or journal. Papers must be formatted to IEEE Computer Society proceedings manuscript style. For detailed formatting and submission guidelines please visit the ICDM website (http://icdm2011.cs.ualberta.ca/submission-guidelines.php).

Workshop Proceedings and Journal Special Issue

Accepted papers will be included in the IEEE ICDM 2011 Workshops Proceedings volume published by IEEE Computer Society Press (also included in the IEEE Xplore Digital Library).
Selected papers will be considered for publication (in extended form) in a journal special issue (formal approval pending).

Technical Program Committee

- Nazim Agoulmine, Université d'Evry Val d'Essonne, France
- Gagan Agrawal, Ohio State University, USA
- Michael R. Berthold, University of Konstanz, Germany
- Rafael H. Bordini, Federal University of Rio Grande do Sul, Brazil
- Christian Borgelt, European Center for Soft Computing, Spain
- Raouf Boutaba, University of Waterloo, Canada
- Maria Carla Calzarossa, University of Pavia, Italy
- Mario Cannataro, University "Magna Græcia" of Catanzaro, Italy
- Alok Choudhary, Northwestern University, USA
- Ulises Cortes, UPC, Spain
- Tasos Dagiuklas, Technological Education Institute of Mesolonghi, Greece
- Filip De Turck, Ghent University - IBBT, Belgium
- Bart De Vleeschauwer, Alcatel-Lucent, Belgium
- Panagiotis Demestichas, University of Piraeus, Greece
- Bart Dhoedt, University of Gent, Belgium
- Olivier Festor, INRIA, France
- Giancarlo Fortino, University of Calabria, Italy
- Vasilis Friderikos, King's College London, UK
- Fausto Giunchiglia, University of Trento, Italy
- Christophe Gravier, Télécom Saint-Etienne, France
- Yike Guo, Imperial College, UK
- David Hunter, University of Essex, UK
- George Karypis, University of Minnesota, USA
- Shonali Krishnaswamy, Monash University, Australia
- Noura Limam, University of Waterloo, Canada
- Deep Medhi, University of Missouri-Kansas City, USA
- Maria Luisa Merani, Universita di Modena, Italy
- Andreas Nürnberger, Otto-von-Guericke-University Magdeburg, Germany
- Eric Pardede, La Trobe University, Australia
- Srinivasan Parthasarathy, The Ohio State University, USA
- Luciano Paschoal Gaspary, Universidade Federal do Rio Grande do Sul, Brazil
- Daniel Ranc, INT, France
- Krishnamoorthy Sivakumar, Washington State University, USA
- Rolf Stadler, KTH, Sweden
- Burkhard Stiller, ETH Zurich, Switzerland
- John Strassner, Pohang Unviersity, Korea
- Aly Syed, NXP, NL
- Domenico Talia, University of Calabria, Italy
- Maurizio A. Urso, ICAR-CNR, Italy
- Sven van der Meer, Waterford Institute of Technology, Ireland
- Ran Wolff, Haifa University, Israel
- Lisandro Zambenedetti Granville, UFRGS, Brazil