



IEEE ICDM International Workshop on Data Mining in Networks
Brussels, Belgium, December 10th, 2012

DaMNet 2012 The Second IEEE ICDM Workshop on Data Mining in Networks December 10, 2012, Brussels, Belgium (<http://damnet.reading.ac.uk>) A Workshop of the IEEE International Conference on Data Mining

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 on Data Mining in Networks 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 and other complex networks, such as peer-to-peer systems, mobile ad-hoc networks, wireless sensor networks, the World Wide Web, social networks, metabolic networks, protein-protein interaction networks, citation networks, etc. The workshop is aimed at researchers mainly in Computer Science and Communications, interested in the analysis and control of complex networks by means of Data Mining approaches. Nevertheless, the workshop intends also to attract 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 2012, the IEEE International Conference on Data Mining (<http://icdm2012.ua.ac.be/>).

Important Dates

| | |
|------------------------------------|-----------------------------------|
| Workshop papers submission: | August 19, 2012 (extended) |
| Notifications of paper acceptance: | October 1, 2012 |
| Camera-ready papers: | October 15, 2012 |
| Workshop date: | December 10, 2012 |

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*

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:

Graph Mining
Online Learning on Data Streams
Data Mining algorithms for Massive Interconnected Systems
Distributed Data Mining Algorithms
Data Mining algorithms based on Gossip and Epidemic protocols

Application domains:

Computer Networks
Autonomous and Autonomic Networks
Overlays and Virtual Networks
Cognitive and Bio-inspired Networks
Peer-to-Peer (P2P) Overlay Networks
Mobile ad-hoc Networks (MANET)
Wireless Sensor Networks (WSN)

Communication Network and Service Management
Spontaneous and Opportunistic Communications
System Management
Analysis, Modeling and Visualization of Complex
Networks
Analysis, Modeling and Visualization of Evolving
Networks
Monitoring, Analysis, Management and Control of
Distributed Systems, Federated Databases and Large-Scale
Networked Applications

Internet Protocols data
Large-scale Computing Systems (Grid, Cloud, P2P,
Volunteer Computing)
World Wide Web
Social Networks
Citation Networks and Bibliometrics
Scale-free and Small-World Networks
Graph Theory
Internet of Things
Bioinformatics and System Biology
Neuroscience

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://icdm2012.ua.ac.be/submission-guidelines.php>).

Workshop Proceedings and Journal Special Issue

Accepted papers will be included in the IEEE ICDM 2012 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 the Springer JNSM 2013 Special Issue on Data Mining for Monitoring and Managing Systems and Networks (<http://bit.ly/JNSM-SI>).

Technical Program Committee

- Nazim Agoulmine, Université d'Evry Val d'Essonne, France
- Ankit Agrawal, Northwestern University, USA
- Gagan Agrawal, Ohio State University, USA
- Marco Aiello, University of Groningen, NL
- Michael R. Berthold, University of Konstanz, Germany
- Christian Borgelt, European Center for Soft Computing, Spain
- Raouf Boutaba, University of Waterloo, Canada
- Maria Carla Calzarossa, Università di Pavia, Italy
- Mario Cannataro, University "Magna Græcia" of Catanzaro, Italy
- Carlos Frederico Cavalcanti, Federal University of Ouro Preto, Brasil
- Marinos Charalambides, University College London, UK
- Alok Choudhary, Northwestern University, USA
- Luis M. Correia, Instituto de Telecomunicações, Portugal
- Mehmet Cudi Okur, Yasar University, Turkey
- Tasos Dagiuklas, Technological Education Institute of Messolonghi, Greece
- Filip De Turck, Ghent University - IBBT, Belgium
- Bart De Vleschauwer, Alcatel-Lucent, Belgium
- Panagiotis Demestichas, University of Piraeus, Greece
- Alessandro Di Bucchianico, Eindhoven University of Technology, NL
- Olivier Festor, INRIA, France
- Paris Flegkas, University of Thessaly, Greece
- Giancarlo Fortino, University of Calabria, Italy
- Vasilis Friderikos, King's College London, UK
- Damianos Gavalas, University of the Aegean, Greece
- Paolo Giaccone, Politecnico di Torino, Italy
- Yike Guo, Imperial College, UK
- Antonis Hadjiantonis, University of Cyprus, Cyprus
- 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, Università di Modena, Italy
- Andreas Nürnberger, Otto-von-Guericke-University Magdeburg, Germany
- Eric Pardede, La Trobe University, Australia
- Srinivasan Parthasarathy, The Ohio State University, USA
- Daniel Ranc, INT, France
- Rolf Stadler, KTH, Sweden
- Burkhard Stiller, ETH Zurich, Switzerland
- Aly Syed, NXP, NL
- Domenico Talia, University of Calabria, Italy
- Alfonso Maurizio Urso, ICAR-CNR, Italy
- Sven van der Meer, Ericsson, Ireland
- Ran Wolff, Haifa University, Israel
- Lisandro Zambenedetti Granville, UFRGS, Brazil