The First European Network Intelligence Conference

ENIC 2014

http://enic.pwr.wroc.pl

We are more and more surrounded by different kinds of networks, interconnected systems and vast amounts of interrelated data. Various web collaborative portals, blogs, wikis, video publishing services (youtube), ecommerce sites (eBay), social networking sites (Facebook) sensor networks, smart phones users exchanging multimedia as well as IT systems collaborating with one another in most organisations are good example of networks that require new adequate analytical methods.

The aim of the annual European Network Intelligence Conference (ENIC) is to create an open premier forum to exchange knowledge and experience as well as to discuss recent advances, theories, and techniques related to both various types of networks and intelligent analytical computational methods.

Every edition of the conference will focus on only few selected more specific scientific domains - tracks. The first event will include two such tracks: Social network and social media analysis, and Recommender Systems. The tracks will bring together the research groups from the specified disciplines, along with many of the e-commerce companies interested in applications of the intelligent tools in their products. The track will enable researchers and practitioners to present their latest research and identify challenges in recommendation systems. The special interest will be focused on the design cooperation platform for academia and industry.

Initially, the conference will be led and hosted by the ENGINE Centre and partnering organisations and substantially supported by the Seventh Framework Programme, however, we hope to create a wider active ENIC community for the future

Since ENIC 2014 is **sponsored by the ENGINE Centre, authors of up to 40 best accepted papers will be registered free of charge**; one author per paper. The ENGINE Centre will cover their participation, proceedings costs, coffee brakes and banquet but only if they will present in person their accepted paper during the conference. It does not include travel and accommodation costs.

Keynote Speakers

- Bing Liu, University of Illinois at Chicago, USA, talk on sentiment analysis
- Alexander Tuzhilin, New York University, USA, talk on recommender systems
- Lise C. Getoor, University of Maryland, USA

Honorary Conference Chair: Tadeusz Wieckowski, Rector of WrUT

ENIC 2014 Tracks

(1)Social network and social media analysis (SNA / SMA)

Track Chairs:

Reda Alhajj, University of Calgary, Canada
Henric Johnson, Blekinge Institute of Technology, Sweden
Przemysław Kazienko, Wrocław University of Technology, Poland
Ioannis (Yiannis) Kompatsiaris, Information Technologies Institute, Greece

List of topics (the authors are not strictly limited to this list):

- Application of social network and social media analysis
- Big data approach to SNA / SMA
- Blog and microblog analysis

- Collaborative query processing and optimization
- Community discovery and analysis in large scale social networks
- Contextual social network analysis
- Crowd sourcing
- Cultural, anthropological and political aspects in SNA / SMA
- Data acquisition and social relationship extraction for SNA/SMA
- Data integration and identification in SNA / SMA
- Data models for social networks and social media
- Data protection and security issues in SNA / SMA
- Deep web SNA / SMA
- Dynamics of networks and social communities
- Dynamics and patterns in social media data
- Economic impact of social network discovery
- Efficiency in SNA / SMA
- Evaluation of SNA / SMA
- Evolution of social networks and social media
- Exchange networks
- Graph-based algorithms for SNA/SMA
- Impact of social networks on recommendations systems (overlaps the second track)
- Information diffusion and spread of influence in social networks
- Knowledge networks
- Large graph and parallel processing
- Machine learning methods for SNA / SMA
- Measures, similarity and dissimilarity in SNA / SMA
- Multi-agent based social network and social media modelling and analysis
- Multiple / multilayer social network analysis
- Multiple social network interaction and multiple media system correlation
- Outlier and misbehaviour detection in SNA/SMA
- Pattern discovery on the web data and in large organizations
- Personalization in social services (overlaps the second track)
- Privacy and security in SNA / SMA
- Reasoning fort social and media data
- Recommender systems in establishment of social relations (overlaps the second track)
- Scalability of social networking, search algorithms and social media data processing
- Sentiment analysis
- Signed graphs and multigraphs in SNA / SMA
- Simulations and computational models for social networks
- Social intelligence
- Social role identification
- Social search analysis
- Spatial networks
- Statistical modelling of large networks
- Trust networks and evolution of trust
- Visual representation of dynamic social networks and social media evolution
- Wikipedia-based data analysis

Track Programme Committee (tentative):

- Harith Alanith, KMi, The Open University, UK
- Martin Boldt, Blekinge Institute of Technology, Sweden
- Piotr Brodka, Wroclaw University of Technology, Poland
- Bengt Carlsson, Blekinge Institute of Technology, Sweden
- Ricardo Colomo-Palacios, Universidad Carlos III de Madrid, Spain
- Michele Coscia, Harvard University, USA
- Schahram Dustdar, Vienna University of Technology, Austria
- Damien Fay, Bournemouth University, UK
- Elena Ferrari, University of Insubria, Italy
- Enrique Frias-Martinez, Telefonica Research, Spain
- David Garcia, ETH, Switzerland
- Nathan Griffiths, University of Warwick, UK
- Heinz Ulrich Hoppe, University of Duisburg-Essen, Germany
- Jaroslaw Jankowski, West Pomeranian University of Technology, Poland
- Tomasz Kajdanowicz, Wroclaw University of Technology, Poland
- Vassilis Kostakos, University of Oulu, Finland
- Hishan Liu, LinkedIn, USA
- Nadine Lucas, GREYC CNRS Caen University, France
- Paul Lukowicz, University of Passau, Germany

- Matteo Magnani, Uppsala University, Sweden
- Stephane Marchand-Maillet, University of Geneva, Switzerland
- Dunja Mladenic, J.Stefan Institute, Slovenia
- Katarzyna Musial-Gabrys, King's College London, UK
- Anton Nijholt, University of Twente, The Netherlands

- Symeon Papadopoulos, Information Technologies Institute, Greece
- Zbigniew Smoreda, Orange Labs, France
- Boleslaw Szymanski, Rensselaer Polytechnic Institute, USA
- Thanassis Tiropanis, University of Southampton, UK

- Stefanos Vrochidis, Information Technologies Institute, Greece
- Katarzyna Wegrzyn-Wolska, ESIGETEL, France
- Baoshi Yan, LinkedIn, USA
- John Yen, Pennsylvania State University, USA
- Katharina Zweig, Kaiserslautern University, Germany
- Anna Zygmunt, AGH University of Science and Technology, Poland

(2)Recommender systems

Track Chairs:

Emilio S. Corchado, University of Salamanca, Spain
Janusz Sobecki, Wrocław University of Technology, Poland

Recommender Systems are applied to provide customized information for their users in a complex environment, i.e. web-based systems. This alternating environment captures not only information needs of differentiated users but also the various system platforms, which are used in many different contexts. In such circumstances so-called classical information systems tend to be very ineffective and there is a great need for applications of adaptive technologies in general or recommender agents in particular. Recommendation exploits past behaviors and user similarities to generate a list of information items that is personally tailored to an end-user's preferences. Topics of submitted papers should focus on Recommender Systems and related topics concerning both theoretical and application aspects in the following areas:

- Case studies of applications
- E-learning in the web environment
- Expert systems
- Hyperlink recommendation
- Information retrieval and filtering
- Multimedia and mobile systems
- Multi-agent systems
- Personalization processes
- Privacy and Security in Recommender Systems
- Product recommendation
- Recommendation algorithms
- Recommender Systems Evaluation
- Social networks
- Targeted advertising
- User modelling
- User interfaces
- Web browsing

Track Programme Committee (tentative):

- Ajith Abraham, MIR Labs, USA
- Mária Bieliková, Slovak University of Technology, Slovakia
- Longbing Cao, University of Technology Sydney, Australia
- Paul Davidsson, Malmö University, Sweden
- Krzysztof Dembczyński, Poznań University of Technology, Poland
- Manuel Grana, University of the BasqueCountry, Spain
- Gordon McCalla, University of Saskatchewan, Canada
- Toyaoki Nishida, Kyoto University, Japan
- Anthony Savidis, ICS-FORTH, Greece
- Vittorio Scarano, University of Salerno, Italy
- Marcus Specht, Open University, The Nethelands
- Dariusz Król, Bournemouth Unversity, UK

- Luminita Dumitriu, University Dunrea de Jos, Romania
- Michał Woźniak. Wrocław University of Technology, Poland

Key dates

Full paper submission deadline: June 15, 2014

Notification of acceptance: July 7, 2014

Camera-ready papers due: July 15, 2014

Registration: July 25, 2014 (with no registration fee, one author per paper),
August 31, 2014 (for participants with registration fee)"

Conference: **September 29-30, 2014** (Monday-Tuesday)

Conference venue

Wrocław, Poland

Publications

All accepted and presented papers will be included in the ENIC 2014 Conference. Will be submitted for archiving in Xplore, CSDL, as well as submitted for indexing through INSPEC, EI (Commendex) and other indexing services. The indexing services are independent organizations, and we cannot guarantee that any particular abstract or index entry will be included in EI Compendex or any other indexing service.

Submission Instruction

Papers reporting original and unpublished research results pertaining to the above topics from both tracks are solicited. The papers will reviewed by a minimum of two subject experts – Programme Committee members. Full paper manuscripts must be in English with a maximum length of 8 pages using the CPS two-column template. Papers should be submitted to the Conference Web site: https://www.easychair.org/conferences/?conf=enic2014 with additional selection of the right tracks. For copyright form and information follow this link: http://www.ieee.org/publications_standards/publications/rights/copyrightmain.html. Papers will be accepted for the conference based on the reviewers comments on their originality, timeliness, significance, relevance, and clarity of presentation. If the paper is accepted, the paper will appear in the proceedings of the conference if one author presents the paper at the conference and at least one author register as a full conference participant.

Special Issue

It is our pleasure to inform you that the extended versions of selected papers presented during the ENIC 2014 conference will be published in the special issue of Social Network Analysis and Mining journal.

Note that the paper to be nominated needs to be presented during the conference.
The special issue will mainly concern SNA/SMA track.

Organisation

Local chair, incl. registration and submission: Elzbieta Kukla, elzbieta.kukla@pwr.wroc.pl

Wrocław University of Technology

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