



NETTAB 2013 - Thirteenth International Workshop on Network Tools and Application for Biology



Semantic, Social, and Mobile Applications for Bioinformatics and Biomedical Laboratories

October 16-18, 2013, Lido of Venice, Italy

<http://www.nettab.org/2013/>



Call for Abstracts and Participation

Rationale

NETTAB Workshops are a series of international meetings introducing the most innovative ICT tools being applied to the biomedical domain. Past workshops have focused on themes like multi-agent systems, scientific workflows, Web Services, Semantic Web, collaborative research, and biological wikis. Newer forms of social technologies are facilitating communication, making information sharing easier, and enhancing learning, problem solving, and crowdsourcing. Biology already relies on social tools and applications for distributed annotations, knowledge bases, and documentation. Internet access is increasingly happening through mobile devices, that are common in biomedical laboratories. The adoption of mobile solutions in medicine and healthcare is a reality, but we cannot say the same for life sciences. Semantic methodologies and technologies are instead well established in “-omic” projects: bioinformatics was an early adopter of Semantic Web technologies. The NETTAB 2013 workshop will explore mobile, social, and semantic solutions for bioinformatics and laboratory informatics. A savvy combination of these technologies could greatly enhance the research outcome of life scientists and markedly simplify workflows in biomedical laboratories.

Keynote Talks

- **Title to be confirmed**
Barend Mons, Leiden University Medical Center, and Netherlands Bioinformatics Center, The Netherlands
- **Facilitating Scientific Discovery through Crowdsourcing and Distributed Participation**
Antony Williams, Royal Society of Chemistry, USA
- **Semantic, Social, and Mobile technologies for the automation of research in biomedicine**
Ross D. King, University of Manchester, Manchester, United Kingdom

Tutorials

- **Semantic Web for Life Sciences: vision, aims, tools, platforms**
Andrea Splendiani, IntelliLeaf, United Kingdom, and Digital Enterprise Research Institute, Ireland
- **Open_PFACTS and NanoPublications**
Speaker to be confirmed
- **Standards for Web Applications on Mobile: current state and roadmap**
Dominique Hazaël-Massieux, W3C/ERCIM, Sophia Antipolis, Biot, France
- **Mobile applications for life sciences: perspectives, limitations, and real examples**
Alex Clark, Molecular Materials Informatics, Inc

Conference Venue

The workshop will be held in the Congress Center “Palazzo ex casino” in Lido of Venice.
See Venice Convention Congress venues at <http://www.veniceconvention.it/en/polo.php>.

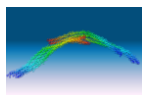
Deadlines

- July 5, 2013: Abstract submission deadline for Oral communications
- July 31, 2013: Abstract submission deadline for Posters
- September 13, 2013: Early registration deadline

Type of contributions and publications

The following possible contributions are sought: oral communications, industrial-technological communications, posters. Accepted abstracts will be included in the Proceedings of the workshop, that will be published in a Supplement of EMBnet.journal (ISSN: 2226-6089), an international, Open Access, peer-reviewed publication from EMBnet.

Full papers from abstracts presented at NETTAB 2013 will be published in a peer-review, indexed, international journal that will soon be announced. To this aim, a special Call for papers, restricted to oral communications and posters presented at the NETTAB 2013 workshop, will be launched shortly before the workshop with a deadline within the end of 2013.





NETTAB 2013 - Thirteenth International Workshop on Network Tools and Application for Biology

Topics

We are looking for abstracts on all aspects of the focus theme, including issues, methods, algorithms, and technologies for the design and development of tools and platforms able to provide Semantic, Social, And Mobile (SeSaMo) applications supporting bioinformatics and the activities carried out in a biomedical laboratory. The following list is not meant to be exclusive of any further topics as stated above. Submitted contributions should address one or more of the following topics:

Issues and Methods

User engagement; Social learning; Social problem solving; Crowdsourcing; Gamification; Privacy in social biomedical applications; Patients communities; Web-enabled social healthcare; other issues and methods for semantic, social and mobile applications

Platforms

Semantic Knowledge Management platforms; Distributed annotations systems; Platforms for Crowdsourcing; LIMS; ELN; Social media for biomedical research; other platforms for semantic, social and mobile applications.

Algorithms and Technologies

Social algorithms; Algorithms optimized for mobile devices; Distributed algorithms for interacting devices; Ubiquitous computing; Social networks analysis; Multi Agent Systems; Distributed Computing; Mobile platforms and wearable computing; other algorithms and technologies for semantic, social and mobile applications.

Applications for Bioinformatics

Semantic-based Bioinformatics applications; Social Bioinformatics applications; Mobile Bioinformatics applications; Combinations of the above.

Tools

Semantic Wiki Systems; Biomedical Ontologies; Ontologies to support social and mobile applications; Application Programming Interfaces (API); Software Development Kits (SDK); Middleware; Programming Languages; other tools for semantic, social and mobile applications.

Applications for Biomedical laboratories

Semantic-based applications for biomedical laboratories; Social applications for biomedical laboratories; Mobile applications for biomedical laboratories; Combinations of the above.

Instructions

Extended structured abstracts must be submitted at <http://conference.embnet.org/index.php/NETTAB/> .

Authors must first register at <http://conference.embnet.org/index.php/NETTAB/NETTAB2013/user/account> .

The abstract must be prepared by using the template http://www.nettab.org/2013/docs/Nettab_abstractTemplate.doc .

Full instructions for the preparation of the abstract are available at

<http://conference.embnet.org/index.php/NETTAB/NETTAB2013/about/submissions#authorGuidelines> .

The **length of abstracts for oral communications**, including the Industrial-technological communications, should be between 3 and 4 pages, including no more than TWO tables / figures. The length of abstracts for posters should be between 2 and 3 pages, including no more than ONE table or figure. All abstracts should include the following sections: Motivation and Objectives, Methods, Results and Discussion, Acknowledgements, References.

All contributions for oral communications will be evaluated by at least two referees. All posters will be evaluated on the basis of their relevance for the workshop's topics and contents by the Workshop's Chairs.

For any further information or clarification, please contact the organization by email at nettab2013oc@googlegroups.com .

Workshop Chairs

- Nicola Cannata, University of Camerino, Camerino, Italy
- Barend Mons, Leiden University Medical Center, Leiden, and Netherlands Bioinformatics Center, The Netherlands
- Paolo Romano, IRCCS AOU San Martino IST, Genoa, Italy
- Andrea Splendiani, intelliLeaf, United Kingdom, and DERI, Ireland

Scientific Committee (provisional list)

- | | | |
|-------------------------------------|-------------------------------------|--------------------------------------|
| • Giuliano Armano, Italy | • Alfredo Ferro, Italy | • Luciano Milanesi, Italy |
| • Alex Bateman, United Kingdom | • Rosalba Giugno, Italy | • Francis Ouellette, Canada |
| • Olivier Bodenreider, USA | • Dominique Hazaël-Massieux, France | • Alfredo Pulvirenti, Italy |
| • Riccardo Bellazzi, Italy | • Ross D. King, United Kingdom | • Marc Robinson-Rechavi, Switzerland |
| • Albert Burger, United Kingdom | • Alberto Labarga, Spain | • Larisa Soldatova, United Kingdom |
| • Michael Cariaso, USA | • Roberto Marangoni, Italy | • Luca Toldo, Germany |
| • Christine Chichester, Switzerland | • Marco Masseroli, Italy | • Wyeth W. Wasserman, Canada |
| • Ying Ding, USA | • Bartelan Meskó, Hungary | • Antony Williams, United Kingdom |
| • Angelo Facchiano, Italy | | |

