

4th International Conference on Biomedical Ontologies (ICBO 2013)

The 4th International Conference on Biomedical Ontologies 2013 (ICBO2013) will be held at Concordia University, Montreal, Quebec, on July 7th - 9th 2013.

The conference aim is to foster discussion, exchange, and innovation in research and development in the areas Biomedical Ontology. Researchers and professionals from biology, medicine, computer science and engineering are invited to share their knowledge and experience. The event is part of the Semantic Trilogy 2013

(<http://www.unbsj.ca/sase/csas/data/semantic-trilogy-2013/>) featuring:

- * International Conference on Biomedical Ontologies (ICBO 2013)
- * Canadian Semantic Web Symposium (CSWS 2013)
- * Data Integration in the Life Sciences (DILS 2013)

web site: <http://www.unbsj.ca/sase/csas/data/semantic-trilogy-2013/>

Topics

Ontologies for biomedical research and clinical applications

Reports on ontologies for, and their application in high throughput omics data and systems biology, toxicology and environmental health, disorders, diseases, phenotypes and physiology, genetic variation and pharmacogenomics, translational research and personalized medicine, public health and electronic health care are invited.

Foundations and methodology

Papers on foundational and methodological issues pertaining to biomedical ontology are invited. Eligible topics are, though not limited to, the following; knowledge representation and reasoning, philosophical foundations of ontology, upper-level ontologies, topics in ontology engineering including design and life cycle, methodologies for knowledge elicitation and capture, ontology-oriented text mining techniques, ontology modularity, mapping, merging, and alignment of ontologies, and ontology evaluation.

Biomedical ontologies and the Semantic Web

Research on formal representation of biomedical knowledge using RDF and OWL, identifiers, mappings & normalization, biomedical research using linked data, integration strategies using the linked open data cloud, visualization and manipulation of ontology, federation of online resources, workflows and semantic web services for biomedical knowledge discovery.

Social aspects of biomedical ontologies

Perspectives from biomedical ontologists on community standards, adoption, and proliferation of semantics, use of semantic wikis, bio-curation & crowdsourcing techniques, user engagement and feedback, semantic publishing and provenance, governance, evolution and sustainability.

Submissions

All accepted submissions will be published as part of the Conference Proceedings. Papers are to be prepared using templates (available on website) and submitted via EasyChair (<http://www.easychair.org/conferences/?conf=icbo2013>). Details will follow in the full Call for Papers in December 2012.

1. Long Research Paper (up to 15 pages) should satisfy the following criteria: original research; novelty in methodology and/or in research results; significant development with large potential for impact; theoretical soundness and/or strong evaluation with demonstration of utility in applications.

2. Short Research Paper (up to 8 pages) should satisfy the following criteria: original research; methodological soundness with either novel methodology & application, or demonstrated improvement over existing methods (with appropriate validation), or the use of existing methodology but in novel application. Short papers are appropriate for applied research or systems, or the development of new approaches.

3. Systems Paper (up to 4 pages) must describe the functionality, availability, and an application of the system. The system itself *must* be demonstrated at the conference.

4. Early Career Track (up to 8 pages) is to support the work of young investigators. There will be an Early Career Track session for the presentation of the papers. The ECT paper review and acceptance criteria are the same as the short research papers. The staggered submission dates allows submissions (from young investigators) that are not accepted as long or short research papers to be revised and re-submitted; as well as allow first time submissions from young investigators to the Early Career Track directly.

5. Late Breaking Report (up to 2 pages) This track is for extended abstracts. A limited set of the peer-reviewed reports will be selected to be presented as a flash talk. All reports must be presented as posters. Late breaking reports should address a clearly defined problem that is of interest to the ICBO community. A late breaking report is appropriate for interesting preliminary results; and systems updates.

6. Highlights (up to 500 words) This track highlights original peer-reviewed research with significant impact on data integration research or life sciences research that is published between May 1, 2012 and May 1, 2013. The submission is a short abstract highlighting the importance of the work for the ICBO community. If the publication is not open access, then the authors must make the paper available to the review committee.

7. Workshops

Workshops are half-day or full-day scientific events intended to provide a forum for the discussion of a specific topic through individual paper presentations. The workshop organizers will be responsible for advertising the workshop and reviewing and selecting the contributions.

Workshops can be events focusing on a specific topic; they can also include interest group meetings, or meetings designed to disseminate the results of a research project on a specific topic.

8. Tutorials

Tutorials are educational events. They may be either for a full day or for a half day. They should focus on one specific topic presented by one or two experts and involve interaction with the audience. Tutorials can include hands-on training, in which case the proposal should specify the exact requirements (laptops, software to install, etc.).

Relevant dates

4 January 2013: Workshop and tutorial proposal submission deadline

18 January 2013: Notification of acceptance of workshops and tutorial proposals

1 February 2013: Conference (long & short) paper submission deadline

1 April 2013: Notification of conference paper acceptance

15 April 2013: System, early career and workshop paper submission deadline

15 May 2013: Notification of system, early career and workshop paper acceptance

20 May 2013: Submission of late breaking reports and highlight track papers

1 June 2013: Notification of acceptance of late breaking reports and highlight-track papers

15 June 2013: Deadline for all camera-ready copies for the proceedings

***** Contact *****

For more information or to offer sponsorship, please send us a note at
contact: icbo2013@gmail.com

Organizing Committee

Co-Scientific Chair: Michel Dumontier

Co-Scientific Chair: Christopher Baker

Local Organizer: Gregory Butler

Programme Chair: Robert Hoehndorf

Workshop and Tutorial Chair: Chris Mungall

Poster and Demonstration Chair: Trish Whetzel

Proceedings and Special Issue Chair: Janna Hastings

Early Career Chair: Melissa Haendel

Sponsorship and Publicity Chair: Sivaram Arabandi