The 4th International Workshop on Semantic Technology for eHealth (STeH 2017)

November 16, 2017 in Beijing, China

Introduction

Information and communication technologies (ICT) are widely used for health care. As 'e-Health technologies', they have played an increasingly important role in the practice of medicine and clinical research. The term e-Health encompasses a range of services and systems in medicine/healthcare and information technology. Applications of e-Health include research, educating the health care workforce (e.g. e-Learning), treating patients, tracking diseases and monitoring public health. However, the lack of integration and semantic interoperability among most of the information systems that are used creates inefficiencies and application limits for eHealth, which challenge the ability of the health care industry to reach the stated goals: to supply continuous care that is personalized for each patient and to put new knowledge into practice by translating clinical research results from 'bench to bedside'.

Semantic Web technology is steadily becoming a de facto solution for semantic interoperability in medicine and healthcare. This workshop is the 4th one of workshop series in Semantic Technology for eHealth. The STeH 2017 workshop will be co-located with the 2017 International Conference on Brain Informatics, November 16th, 2017 in Beijing, China. We invite researchers and scientists to submit their high-quality and original works in semantic applications for medicine and health care.

[On-line Submission]

Topics of Interest

Possible topics for the workshop are (but not restricted to):

- Biomedical ontologies and terminologies
- Biomedical ontology mapping
- Brain Informatics
- Medical knowledge graphs
- Development of semantic applications for medicine and healthcare
- Semantic interoperability for Electronic Health Records (EHRs)
- Semantic interoperability for clinical trial data
- Patient information sharing for multi-disciplinary teams
- Decision support systems in medicine
- Semantically-enabled systems in medicine and healthcare

- Semantic research for biomedical science
- Semantic technology for telemedicine
- Health knowledge management
- Computer-interpretable clinical guidelines
- Computer-interpretable clinical trial eligibility criteria
- Semantic annotation of medical images and documents
- Rule-based formalizations for eHealth systems
- Reasoning and processing of medical knowledge
- Temporal/spatial reasoning and data processing in eHealth
- Big data and big ontology in eHealth
- Semantic technology for Personal Health Records and patient empowerment

Submissions and Publication
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Similar to the main conference of BI 2017, there are two types of paper submissions that are possible:

TYPE I: Full Paper Submissions. Authors should submit their full papers with a maximum paper length of up to 10 pages in Springer LNCS format using our online submission system. The accepted and presented papers will be published by Springer as a volume of the series of LNCS/LNAI.

TYPE II: Abstract Submissions. Abstracts have a word limit of 500 words. Experimental research is particularly welcome. Accepted abstract submissions will be included in the conference program and will be published as a single, collective proceedings volume.
All submissions will be reviewed by at least two reviewers who will give detailed comments. If the submission gets accepted, the authors will submit a revised ("camera-ready") version that takes into account this feedback.

Important Dates

- Submission deadline for workshop/special session papers (TYPE I): June 20, 2017
- Notification of workshop paper acceptance: June 30, 2017
- Camera-ready copies of accepted papers: July 10, 2017
- Submission deadline for abstracts (TYPE II): July 20, 2017
- Workshop date: November 16, 2017
- Main Conference: November 17-18, 2017

Workshop Chairs

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