NLP for Medicine and Biology Workshop

Associated to the Conference RANLP 2013

13 September 2013
http://www.lml.bas.bg/ranlp2013/NLPMedBio

9-9:15 Opening

Session 1:

9:15-10:15 **Invited talk**: **Guergana Savova** (*Harvard Medical School and Childrens Hospital Boston, USA*) Temporal Relations in the Clinical Domain and Apache cTAKES

> The presentation will consist of two parts. Part 1 will present an overview of methods and software development behind the Apache cTAKES platform (ctakes.apache.org). The second part of the presentation will shift to current research on temporal relations in the clinical domain. The research is done as a collaboration among Harvard, University of Colorado and Mayo Clinic.

10:15-10:45 *Genevieve Gorrell, Angus Roberts, Richard Jackson and Robert Stewart,* Finding Negative Symptoms of Schizophrenia in Patient Records

10:45-11:15 Coffee break

Session 2:

11:15-11:45 *Marina Sokolova, Ilya Ioshikhes, Hamid Poursepanj and Alex MacKenzie,* NLP can help parents to understand rare diseases

11:45-12:15 *Dmitriy Dligach, Timothy Miller and Guergana Savova,* Active Learning for Phenotyping Tasks

12:15-12:35 *Elyne Scheurwegs, Kim Luyckx, Filip Van der Schueren and Tim Van den Bulcke,* De-Identification of Clinical Free Text in Dutch with Limited Training Data: A Case Study (poster presentation)

12:35-13:00 Discussion and Closing

Invited Speaker Biography

> Guergana Savova, Ph.D. is faculty at Harvard Medical School and Childrens Hospital Boston. Her research interest is in natural language processing (NLP) especially as applied to the text generated by physicians (the clinical narrative) focusing on higher level semantic and discourse processing which includes topics such as named entity recognition, event recognition, relation detection and classification including co-reference and temporal relations. The methods are mostly machine learning spanning supervised, lightly supervised and completely unsupervised. Her interest is also in the application of the NLP methodologies to biomedical use cases. Dr. Savova has been leading the development and is the principal architect of cTAKES. She holds a Master's of Science in Computer Science and a PhD in Linguistics with a minor in Cognitive Science from University of Minnesota. Details at (not fully up-to-date) http://childrenshospital.org/cfapps/research/data_admin/Site3240/mainpageS3240P0.html