

Scientific Program

Wednesday, October 18, 2017

08:00 - 12:00	Registration (EMC foyer)
08:00 - 09:00	Breakfast (EMC foyer)
09:00 - 09:15	Workshop opening
09:15 - 10:40	TRACK 1 Interactive Bio-ID Assignment 9:15-9:25 Introduction to Bio_ID track (Cecilia Arighi, University of Delaware) 9:25-9:40 Introduction to SourceData and data set (Thomas Lemberger, SourceData) 9:40-9:55 Overview of Bio_ID results – batch results (Lynette Hirschman, MITRE) 9:55-10:05 A Neural Named Entity Recognition Approach to Biological Entity Identification (Emily Sheng, Information Sciences Institute/USC) 10:05-10:15 A Study on Identification of Organism and micro-RNA Mentions in Figure Captions (Po-Ting Lai, National Central University) 10:15-10:40 Next steps and discussion
10:40 - 11:00	Break
11:00 - 12:30	Panel on Innovation on Digital Curation (Moderators: Fabio Rinaldi and Cecilia Arighi) 11:00-11:10 Julio Collado-Vides, UNAM- Natural language processing to enhance accessibility to knowledge in RegulonDB 11:10-11:20 Thomas Lemberger, EMBO- Data transparency in scientific publishing 11:20-11:30 Zhiyong Lu, NCBI- Text mining for improving the prioritization, curation, and integration of knowledge for clinically relevant variants 11:30-11:40 Johanna McEntyre, EMBL-EBI- How can text mining scale to meet diverse and precise curation needs? 11:40-12:30 Open discussion
12:30 - 13:40	Lunch (Restaurant first floor)
13:40 - 15:40	TRACK 4 Mining protein interactions and mutations for precision medicine 1:40-2:10 Overview of the Precision Medicine Track (Rezarta Islamaj Dogan) 2:10-2:30 Identifying Relevant Literature for Precision Medicine Using Deep Neural Networks (Sergio Matos) 2:30- 2:50 Exploring a Deep Learning Pipeline for the BioCreative VI Precision Medicine Task (Tung Tran) 2:50- 3:15 Mining protein interactions affected by mutations using a NLP based machine learning approach (Albert Steppi and Jinchan Qu) 3:15-3:30 Document Triage and Relation Extraction for Protein-Protein Interactions affected by Mutations (Dina Demner Fushman for Karin Verspoor and team) 3:30-3:40 Poster spotlight and Open discussion
15:40 - 16:00	Break
16:00 - 17:00	Keynote- Dr. Patricia Flatley Brennan, Director of National Library of Medicine, NIH Towards a future of data-powered health
17:00 - 18:00	Panel on Funding Stakeholders (Moderator: Cathy Wu) Susan Gregurick, NIGMS, NIH Jennifer Weller, NSF Jane Ye, NLM, NIH

Thursday, October 19, 2017

08:00 - 12:00	Registration (EMC foyer)
08:00 - 09:00	Breakfast (EMC foyer)
09:00 - 10:15	General session 9:00-9:20 Efficient and Accurate Entity Recognition for Biomedical Text (Fabio Rinaldi, U. Zurich) 9:20-9:40 iTextMine: Integrated Text Mining System for Large-Scale Knowledge Extraction from Literature (Jia Ren, U. Delaware) 9:40-10:00 Large-scale Automated Reading with Reach Discovers New Cancer Driving Mechanisms (Dane Bell, U. Arizona) 10:00-10:20 Evaluating without a Gold Standard (Lynette Hirschman, MITRE)
10:20 - 10:40	Break
10:40 - 12:30	TRACK 2 Text-mining services for Kinome Curation 10:40-11:10 Kinome Track Overview (Julien Gobeill & Patrick Ruch, SIB) 11:10-11:35 Assisting Document Triage for Human Kinome Curation via Machine Learning (Alan Hsu, NCBI) 11:35-11:55 KinDER: A Biocuration Tool for Extracting Kinase Knowledge from Biomedical Literature (Adam Morrone & Daniel Dopp, Montana State University) 11:55-12:20 Discussion
12:30 - 13:45	Lunch (Restaurant first floor)
13:45 - 15:45	TRACK 3 Extraction of causal network information using the Biological Expression Language Overview and Results (Sumit Madan, Fraunhofer SCAI) Selected Team Presentations Next steps and discussion (Sumit Madan, Fraunhofer SCAI)
15:45 - 16:00	Break
16:00 - 17:00	Keynote- Dr. Hongfang Liu, Professor Biomedical Informatics, Mayo Clinic Text mining in precision medicine: opportunities and challenges
17:00 - 19:00	Poster session and Reception

Friday, October 20, 2017

08:00 - 09:00	Breakfast (EMC foyer)
08:30 - 10:30	TRACK 5 Text mining chemical-protein interactions 8:30-9:00 Overview of the Chemical-Protein relation extraction track (Martin Krallinger / Saber A. Akhondi (CNIO / Elsevier) 9:00-9:15 Chemical-protein relation extraction with SVM, CNN, RNN and ensemble systems (Yfan Peng, NCBI, NLM, NIH) 9:15-9:30 Extracting Chemical-Protein Interactions using Long Short-Term Memory Networks (Sérgio Matos, University of Aveiro, Portugal) 9:30-9:45 Attention based Neural Networks for Chemical Protein Relation Extraction (Ravikumar Komandur Elayavilli, Mayo Clinic, USA) 9:45-10:00 Extracting protein-chemical compound interactions from literature (Pei-Yau Lung, Florida State University) 10:00-10:15 Knowledge-base-enriched relation extraction (University of Colorado, Boulder) 10:15 - 10:30 CTCPI - Convolution Tree Kernel-based Chemical-Protein interaction detection (Po-Ting Lai, National Tsing-Hua University, Hsinchu, Taiwan)
10:30 - 10:45	Break
10:45 - 12:00	Tracks open discussion/closing
12:00 - 13:00	Lunch (Restaurant first floor)
13:00 - 15:30	Tour to the National Library of Medicine