Seventh i2b2 Shared Task and Workshop
Challenges in Natural Language Processing for Clinical Data
November 14, 2014
Jefferson West room, Washington Hilton, Washington DC

8:30 – 9:00 AM: Breakfast

9:00 – 9:45 AM: Opening remarks

Overview and results
Amber Stubbs, Ozlem Uzuner, Hua Xu, and Kai Zheng

9:45 – 10:45 AM: Presentations: Track 1 – De-identification

A Hybrid System for Automatic De-identification in Patient Discharge Summaries
Hui Yang, Jonathan Garibaldi

Hidden Markov Model using Dirchilet Process for De-Identification
Tao Chen

Combining Knowledge- and Data-driven Methods for De-identification of Clinical Narratives
Azad Dehghan, Aleksandar Kovačević, George Karystianis, John A. Keane, and Goran Nenadic

10:45 – 11:00 AM: Break

11:00 – 12:00 PM: Presentations: Track 2 – Risk factor identification, part 1

De-Identification and Risk Factor Detection in Medical Records
Manabu Torii, Jung-wei Fan, Wei-li Yang, Theodore Lee, Matthew T. Wiley, Daniel Zisook, Yang Huang

NLM: Machine Learning Methods for Detecting Risk Factors for Heart Disease in EHRs
Kirk Roberts, Sonya E. Shooshan, Laritza Rodriguez, Swapna Abhyankar, Halil Kilicoglu, Dina Demner-Fushman

Agile Text Mining for the i2b2 2014 Cardiac Risk Factors Challenge
James Cormack, Chinmoy Nath, David Milward, Kalpana Raja, Siddhartha Jonnalagadda

12:00PM – 12:15PM: Lighting talks for posters
12:15PM – 1:00PM: Lunch & posters set-up

1:00PM – 2:00PM – Presentations: Track 2 – Risk factor identification, part 2

TMUNSW System for Risk Factor Recognition and Progression Tracking
Nai-Wen Chang, Hong-Jie Dai, Chih-Wei Chen, Jitendra Jonnagaddala, Chou-Yang Chien, Manish Kumar, Richard Tzong-Han Tsai, Wen-Lian Hsu

Identifying risk factors for heart disease over time –HITSZ's system for track 2 of the 2014 i2b2 NLP challenge
Qingcai Chen, Haodi Li, Buzhou Tang, Xin Liu, Zengjian Liu, Shu Liu, Weida Wang

Comparison of UMLS Terminologies to Identify Risk of Heart Disease in Clinical Notes
Chaitanya Shivade, Pranav Malewadkar, Eric Fosler-Lussier, Albert M. Lai

2:00 – 3:30: Break and Poster session

Clinical records de-identification using CRF and rule-based approaches
Cyril Grouin

A CRF-based Approach to De-identification in Medical Records
Bin He, Jianyi Cheng, Yi Guan, Keting Cen, Wenlan Hua

An Approach to De-Identifying Electronic Medical Records
Rocio Guillen

De-identification of electronic medical records – HITSZ's system for track 1 of the 2014 i2b2 NLP challenge
Zengjian Liu, Buzhou Tang, Qingcai Chen, Xiaolong Wang, Haodi Li

Automatic Extraction of Risk Factors for Heart Disease in Clinical Texts
Hui Yang, Jonathan Garibaldi

Risk factor identification from clinical records for diabetic patients
Cyril Grouin, V́eronique Moriceau, Sophie Rosset, Pierre Zweigenbaum

Identifying risk factors for heart disease in diabetic patients over time from electronic medical record text: i2b2 2014 NLP Challenge
Jay Urbain

Extract Heart Disease Risk Factors from Clinical Texts
Binyang Hu, Yahui Shi, Zuogao Li, Xiaoyan Zhang

Identification of Risk Factors for Heart Disease from Medical Documents
Yuan Ling, Yuan An

Building NLP Systems based on Annotated Corpus for Identifying Risk Factors for Heart Disease Over Time
Meizi Ju, Caixia Ge, Zheng Jia, Haomin Li

Using Local Lexicalized Rules for Identification of Heart Disease Risk Factors in Free-text Clinical Notes
George Karystianis, Azad Dehghan, Aleksandar Kovačević, John A. Keane, Goran Nenadic

Identification of Risk Factors for Heart Disease in Electronic Health Records of Diabetic Patients
Abdulrahman Khalifa, Stéphane M. Meystre

Rule-based Text Annotation for identifying risk factors of heart disease over time
Borim Ryu, Wangjin Yi, Eunsil Yoon, Benedict Choonghyun Han, Jinwook Choi

Identifying Risk Factors for Heart Disease over Time: A Report on Automatic Annotation using Rules
Jennifer D'Souza and Vincent Ng

Rule or Machine Learning? An Experimental Study of Extracting Risk Factors for Heart Disease in Diabetic Patients
Yanpeng Li, Rui Du, Ding Cheng Li, Ravikumar Komandur Elayavilli, Majid Rastegar Mojarad, Sunghwan Sohn, Kavishwar B. Wagholikar, Stephen T. Wu, Hongfang Liu

Coronary heart disease risk assessment from unstructured clinical notes using Framingham risk score
Jitendra Jonnagaddala, Manish Kumar, Nai-Wen Chang, Hong-Jie Dai

Predicting Changes in Systolic Blood Pressure in Longitudinal Patient Records
John Wes Solomon, Rodney D. Nielsen

MITRE Identification Scrubber Toolkit (MIST)
John Aberdeen, Sam Bayer, Cheryl Clark, Lynette Hirschman, Ben Wellner

BioMEDICUS
Serguei Pakhomov

MedEX_UIMA
Hua Xu, Min Jiang, YongHui Wu, Jingqi Wang

tmuClinical.NET
Hong-Jie Dai, Nai-Wen Change

Knowledge Author
William Scuba

CliNER
Anna Rumshisky, Tristan Naumann, William Boag, Kevin Wacome

MedXN
Hongfang Liu, Sunghwan Sohn

3:30 – 4:30: Presentations: Track 4 -- Novel Data Use

Identification of medication side effects in clinical records: an experiment based on the 2014 i2b2/UTHealth corpus
Cyril Grouin

Data Exploration and Visualization of Risk Factors for Heart Disease from Medical Documents Using Non-Negative Matrix Factorization (NMF)
Yuan Ling, Xingpeng Jiang, Yuan An, Xiaohua Hu

Towards Textual Inference for Eligibility Criteria Resolution in Clinical Trials
Chaitanya Shivade, Courtney Hebert, Marcelo Lopetegui, Marie-Catherine de Marneffe, Eric Fosler-Lussier, Albert M. Lai

4:30- 5:30: Discussion and closing remarks