The Second i2b2 Workshop on Challenges in Natural Language Processing for Clinical Data

Washington, D.C., USA
7-8 November 2008
Schedule

Friday, 7 November 2008

8:00am - 8:30am
Breakfast

8:30am – 10:00am
Opening: Announcement of Results
Ozlem Uzuner

Natural Language Processing Framework to Assess Clinical Conditions
Henry Ware, Charles J. Mullett, V. Jagannathan

Detecting Patients Suffering from Obesity and Common Comorbidities by Analyzing Narrative Clinical Text
Stéphane M. Meystre

Term variation and semantics for Document Classification and Detection of Obesity and its Co-morbidities Cases
Natalia Grabar, Thierry Hamon, Thierry Dart

10:00am - 10:30am
Break

10:30am – 12:00pm
Combining Lexical Profiling, Rules and Machine Learning for Disease Prediction from Hospital Discharge Summaries
Hui Yang, Irena Spasic, John A. Keane, Goran Nenadic

Hands-on NLP: An Interactive and User-Centered System to Classify Discharge Summaries for Obesity and Related Co-morbidities
Jonathan P. DeShazo, Anne M. Turner

Combining Rules and Naïve Bayes for Disease Classification
Mary Elaine Califf

Learning High Precision Rules to Make Predictions of Morbidities in Discharge Summaries
Ted Pedersen

12:00pm - 1:30pm
Lunch

1:30pm – 3:00pm
Error-Correcting Output Codes with Automatic Hot-Spot Filtering for Identifying Disease Comborbidity Status
Kyle H. Ambert, Aaron M. Cohen

Description of the Lockheed Martin / SAGE Analytica System for the i2b2 Challenge in Natural Language Processing for Clinical Data
Lois C. Childs, Robert J. Taylor, Lone Simonsen, Norris H. Heintzelman, Kimberly M. Kowalski, Robert Enelow

A Rule-Based Approach for Identifying Obesity and Its Co-Morbidities in Medical Discharge Summaries
Ninad Mishra, David Cummo, Jim Arnzen, Jason Bonander

Regularized Logistic Regression for Clinical Record Processing
Leonid Peshkin, Carlos Cano, Bob Carpenter, Breck Baldwin

3:00pm - 3:30pm
Break

3:30pm – 5:30pm
Bayesian Networks and the i2b2 Obesity Challenge
Michael P. Matthews

Medical Language Processing for Patient Diagnosis Using Text Classification and Negation Labelling
Brian Mac Namee, John D. Kelleher, Sarah Jane Delany

A Baseline System for the i2b2 Obesity Challenge
Henk Harkema, Heather Piwowar, Saeed Amizadeh, John Dowling, Jeffrey Ferraro, Peter Haug, Wendy Chapman

Summary of the day
Ozlem Uzuner

5:30pm - 7:00pm (Posters)

Representation and Classification Techniques for Clinical Data Focused on Obesity and its Co-morbidities
Oana Frunza, Diana Inkpen

Botero: a SVM Classifier for Clinical text in the Obesity Domain
Mariana Neves, José-María Carazo, Alberto Pascual-Montano

Handling Negation in Classification of Clinical Texts
Jacinto Mata, Manuel J. Maña, José M. Bermúdez, Noa P. Cruz, Patricia Jiménez

NLP Obesity Challenge: Using Clinical Markers for EHR Classification
Bao-Quoc Ho, Øystein Nytrø, Carl-Fredrik Bassøe

An Introduction to MLP Driven by the i2b2 Challenge
Neil Barrett, Jens Weber-Jahnke

Identifying Obesity and Co-morbidities from Medical Records
Rocio Guillen

Classifying Narrative Patient Records without Any External Resources
Kazuo Hara

Using CuiTools to Identify Obesity and its Co-morbidities in Discharge Summaries
Bridget T. McInnes

Saturday, 8 November 2008

7:00pm – 9:30pm

Opening

Simple Approaches to Disease Classification Based on Clinical Patient Records
György Szarvas, Richárd Farkas, Attila Almási, Veronika Vincze, István Hegedûs, Róbert Busa-Fekete, Róbert Ormándi

Context-Aware Rule Based Classifier for Semantic Classification of Diseases in Discharge Summaries
Illés Solt, Domonkos Tikk, Viktor Gál, Zsolt T. Kardkovács

A Brief Summary About the Approach and Explanation of the Attributes of the Developed System for i2b2 Challenge
Jon Patrick, Pooyan Asgari

The Mayo/MITRE System for Discovery of Obesity and Its Comorbidities
Guergana Savova, Cheryl Clark, Jiaping Zheng, K. Bretonnel Cohen, Sean Murphy, Ben Wellner, David Harris, Marcia Lazo, John Aberdeen, Qian Hu, Christopher Chute, Lynette Hirschman

Closing