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Thanks to Fernando Batista and Matt Post for their helpful notes about creating a hand-
book
Handbook assembled by Swapna Somasundaran

Meal Info

The main conference registration includes

- Welcome Reception
- Two Poster Session dinners
- Two breaks each day with snacks

WIFI access

Username: XXXXXXXXXXXXX

Password: XXXXXXXXXXXXX

Links

Web site: <http://www.emnlp2016.net/>

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Conference4me app: XXXXXXXXXXXXX

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Conference Information

Preface by the General Chair

MOntH 25, 2016

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Jian Su
EMNLP 2016 General Chair

¹Conference website: <http://www.emnlp2016.net>

Preface by the Program Committee Co-Chairs

Month XX, 2016

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EMNLP 2015 Program Committee Co-Chairs

Organizing Committee

General Chair

Jian Su, Institute for Infocomm Research - I2R

Program co-Chairs

Xavier Carreras, Xerox Research Centre Europe
Kevin Duh, Johns Hopkins University

Workshops co-Chairs

Annie Louis, University of Essex
Greg Kondrak, University of Alberta

Tutorial co-Chairs

Bishan Yang, Carnegie Mellon University
Rebecca Hwa, University of Pittsburgh

Publication co-Chairs

Siddharth Patwardhan, IBM
Daniele Pighin, Google Inc.

Publicity Chair

Saif M. Mohammad, National Research Council Canada

Sponsorship Chairs

Michel Galley, Microsoft Research
Hang Li, Huawei Technologies (ISC Representative for EMNLP)

Student Scholarship Chair and Student Volunteer Coordinator

Vincent Ng, University of Texas at Dallas

Handbook Chair

Swapna Somasundaran, Educational Testing Service

Website Chair

Jackie C.K. Cheung, McGill University

SIGDAT Liaison

Chris Callison-Burch, University of Pennsylvania

Local Arrangements Chair

Priscilla Rasmussen, ACL Business Manager

Program Committee

Program co-Chairs

Xavier Carreras, Xerox Research Centre Europe
Kevin Duh, Johns Hopkins University

Area Chairs

Information Extraction, Information Retrieval, and Question Answering

Nate Chambers, United States Naval Academy
Ruihong Huang, Texas A&M University
Min-Yen Kan, National University of Singapore
Alan Ritter, The Ohio State University
Scott Wen-Tau Yih, Microsoft Research

Language and Vision

Sanja Fidler, University of Toronto
Julia Hockenmaier, University of Illinois at Urbana-Champaign

Linguistic Theories and Psycholinguistics

Suzanne Stevenson, University of Toronto

Machine Learning

Guillaume Bouchard, University College London
Kyunghyun Cho, New York University
Kuzman Ganchev, Google
Ariadna Quattoni, Xerox Research Centre Europe
Eric Ringger, Facebook

Machine Translation and Multilinguality

John DeNero, UC Berkeley
Alex Fraser, Ludwig-Maximilians-Universitat Munchen
Yang Liu, Tsinghua University
Dekai Wu, Hong Kong University of Science and Technology

Segmentation, Tagging, and Parsing

Michael Collins, Columbia University
Liang Huang, Oregon State University
Daisuke Kawahara, Kyoto University
Andre Martins, Priberam Labs

Semantics

Yoav Artzi, Cornell Tech
Georgiana Dinu, IBM
Ed Grefenstette, Google DeepMind
Ray Mooney, University of Texas at Austin
Laura Rimell, University of Cambridge

Sentiment Analysis and Opinion Mining

Dirk Hovy, University of Copenhagen
Bing Liu, University of Illinois at Chicago
Saif Mohammad, National Research Council Canada

Social Media and Computational Social Science

Tim Baldwin, University of Melbourne
Smaranda Muresan, Columbia University

Spoken Lanugage Processing

Brian Roark, Google
Geoff Zweig, Microsoft Research

Summarization, Generation, Discourse, Dialogue

Manfred Stede, Potsdam University
Michael Strube, Heidelberg Institute for Theoretical Studies
Lucy Vanderwende, Microsoft Research
Wei Xu, University of Pennsylvania

Text Mining and NLP Applications

Preslav Nakov, Qatar Computing Research Institute
Vivi Nastase, FBK
David Smith, Northeastern University
Joel Tetreault, Yahoo! Labs

Social events

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Welcome Reception

XXXX WHEN AND WHERE???

Farewell Drink

Monday, September 21th at 18:30 at Culturgest

Tutorials: Tuesday, November 1

9:00 – 12:30 **Morning Tutorials**

Practical Neural Networks for NLP: From Theory to Code

Chris Dyer, Yoav Goldberg, and Graham Neubig

TBD TBD TBD TBD TBD TBD

Advanced Markov Logic Techniques for Scalable Joint Inference in NLP

Deepak Venugopal, Vibhav Gogate, and Vincent Ng

TBD

Lifelong Machine Learning for Natural Language Processing

Zhiyuan Chen and Bing Liu

TBD TBD TBD TBD TBD TBD

12:30 – 14:00 **Lunch break**

14:00 – 17:30 **Afternoon Tutorials**

Neural Networks for Sentiment Analysis

Yue Zhang and Duy Tin Vo

TBD

Continuous Vector Spaces for Cross-language NLP Applications

Rafael E. Banchs

TBD TBD TBD TBD TBD TBD

Methods and Theories for Large-scale Structured Prediction

Xu Sun and Yansong Feng

TBD

Practical Neural Networks for NLP: From Theory to Code

Chris Dyer, Yoav Goldberg, and Graham Neubig

Tuesday, November 1 – 09:00–12:30

TBD TBD TBD TBD TBD TBD

This tutorial aims to bring NLP researchers up to speed with the current techniques in deep learning and neural networks, and show them how they can turn their ideas into practical implementations. We will start with simple classification models (logistic regression and multilayer perceptrons) and cover more advanced patterns that come up in NLP such as recurrent networks for sequence tagging and prediction problems, structured networks (e.g., compositional architectures based on syntax trees), structured output spaces (sequences and trees), attention for sequence-to-sequence transduction, and feature induction for complex algorithm states. A particular emphasis will be on learning to represent complex objects as recursive compositions of simpler objects. This representation will reflect characterize standard objects in NLP, such as the composition of characters and morphemes into words, and words into sentences and documents. In addition, new opportunities such as learning to embed “algorithm states” such as those used in transition-based parsing and other sequential structured prediction models (for which effective features may be difficult to engineer by hand) will be covered.

Everything in the tutorial will be grounded in code — we will show how to program seemingly complex neural-net models using toolkits based on the computation-graph formalism. Computation graphs decompose complex computations into a DAG, with nodes representing inputs, target outputs, parameters, or (sub)differentiable functions (e.g., “tanh”, “matrix multiply”, and “softmax”), and edges represent data dependencies. These graphs can be run “forward” to make predictions and compute errors (e.g., log loss, squared error) and then

Chris Dyer (CMU) Chris’s research looks at the intersection between machine learning and natural language processing, in particular focusing on representation learning, structured models, and multilinguality. He has received best paper nominations and awards at NAACL, EMNLP, and ACL. He is the author of the CNN toolkit, which was used by the Jelinek 2016 Summer Workshop on neural machine translation.

Yoav Goldberg (Bar Ilan) Yoav’s research focuses around structure prediction problems in natural language, in particular prediction of syntactic representations, greedy methods, semi-supervised learning and robust cross-domain performance. Recently, Yoav became involved in the application of neural-network based models to NLP problems, with two core focuses: better understanding the neural network building blocks; and the use of neural networks for structured problems. Yoav wrote a primer on neural-networks method in NLP, and is responsible for the python bindings of the CNN library.

Graham Neubig (NAIST) Graham’s research focuses on machine learning methods for language and speech processing. His work puts a particular focus on machine translation and speech translation, but also covers other NLP tasks such as tagging and syntactic/semantic parsing, and methods for learning from unlabeled data such as unsupervised, semi-supervised, or active learning. He is interested in neural network models that incorporate our linguistic intuitions, and is one of the core developers of the CNN toolkit.

"backward" to compute derivatives with respect to model parameters. In particular we'll cover the Python bindings of the CNN library. CNN has been designed from the ground up for NLP applications, dynamically structured NNs, rapid prototyping, and a transparent data and execution model.

Advanced Markov Logic Techniques for Scalable Joint Inference in NLP

Deepak Venugopal, Vibhav Gogate, and Vincent Ng

Tuesday, November 1 – 09:00–12:30

TBD

In the early days of the statistical NLP era, many language processing tasks were tackled using the so-called pipeline architecture: the given task is broken into a series of sub-tasks such that the output of one sub-task is an input to the next sub-task in the sequence. The pipeline architecture is appealing for various reasons, including modularity, modeling convenience, and manageable computational complexity. However, it suffers from the error propagation problem: errors made in one sub-task are propagated to the next sub-task in the sequence, leading to poor accuracy on that sub-task, which in turn leads to more errors downstream. Another disadvantage associated with it is lack of feedback: errors made in a sub-task are often not corrected using knowledge uncovered while solving another sub-task down the pipeline.

Realizing these weaknesses, researchers have turned to joint inference approaches in recent years. One such approach involves the use of Markov logic, which is defined as a set of weighted first-order logic formulas and, at a high level, unifies first-order logic with probabilistic graphical models. It is an ideal modeling language (knowledge representation) for compactly representing relational and uncertain knowledge in NLP. In a typical use case of MLNs in NLP, the application designer describes the background knowledge using a few first-order logic sentences and then uses software packages such as *Alchemy*, *Tuffy*, and *Markov the beast* to perform learning and inference (prediction) over the MLN. However,

Deepak Venugopal completed his Ph.D. at the University of Texas at Dallas in 2015 after which he joined the department of computer science at the University of Memphis where he is currently an assistant professor. His main research interests are in Probabilistic Graphical Models, Statistical Relational Models and their applications in natural language processing and cyber-security. His research work has resulted in several key techniques for scalable inference and learning in Statistical Relational Models.

Vibhav Gogate is an Assistant Professor in the Computer Science Department at the University of Texas at Dallas. He got his Ph.D. at University of California, Irvine in 2009 and then did a two-year post-doc at University of Washington. His current research focus is on probabilistic graphical models and its first-order logic based extensions such as Markov logic. He is best known for his work on inference algorithms that combine the power of logic and probability including lifted probabilistic inference algorithms. He is the co-winner of the last two probabilistic inference competitions the 2010 UAI approximate inference challenge and the 2012 PASCAL probabilistic inference competition.

Vincent Ng is an Associate Professor of Computer Science and a member of the Human Language Technology Research Institute at the University of Texas at Dallas. He is best known for his work on coreference resolution in the NLP community. He has recently been collaborating with the co-authors of this proposal on modeling complex NLP tasks using Markov Logic.

despite its obvious advantages, over the years, researchers and practitioners have found it difficult to use MLNs effectively in many NLP applications. The main reason for this is that it is hard to scale inference and learning algorithms for MLNs to large datasets and complex models, that are typical in NLP.

In this tutorial, we will introduce the audience to recent advances in scaling up inference and learning in MLNs as well as new approaches to make MLNs a “black-box” for NLP applications (with only minor tuning required on the part of the user). Specifically, we will introduce attendees to a key idea that has emerged in the MLN research community over the last few years, lifted inference, which refers to inference techniques that take advantage of symmetries (e.g., synonyms), both exact and approximate, in the MLN. We will describe how these next-generation inference techniques can be used to perform effective joint inference. We will also present our new software package for inference and learning in MLNs, Alchemy 2.0, which is based on lifted inference, focusing primarily on how it can be used to scale up inference and learning in large models and datasets for applications such as semantic similarity determination, information extraction and question answering.

Lifelong Machine Learning for Natural Language Processing

Zhiyuan Chen and Bing Liu

Tuesday, November 1 – 09:00–12:30

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Machine learning (ML) has been successfully used as a prevalent approach to solving numerous NLP problems. However, the classic ML paradigm learns in isolation. That is, given a dataset, an ML algorithm is executed on the dataset to produce a model without using any related or prior knowledge. Although this type of isolated learning is very useful, it also has serious limitations as it does not accumulate knowledge learned in the past and use the knowledge to help future learning, which is the hallmark of human learning and human intelligence. Lifelong machine learning (LML) aims to achieve this capability. Specifically, it aims to design and develop computational learning systems and algorithms that learn as humans do, i.e., retaining the results learned in the past, abstracting knowledge from them, and using the knowledge to help future learning. In this tutorial, we will introduce the existing research of LML and to show that LML is very suitable for NLP tasks and has potential to help NLP make major progresses.

Zhiyuan Chen, Google Zhiyuan Chen completed his Ph.D. at the University of Illinois at Chicago (UIC) and joined Google in 2016. His research interests include Text Mining, Machine Learning, and Statistical Natural Language Processing. He has designed several life-long learning algorithms to automatically mine valuable information from text documents. He has published more than 15 full research papers at premier conferences.

Bing Liu, University of Illinois at Chicago (UIC) Bing Liu is a professor of Computer Science at the University of Illinois at Chicago (UIC). He received his PhD in Artificial Intelligence from the University of Edinburgh. His current research interests include sentiment analysis, NLP, data mining, and machine learning. He has published extensively in top conferences and journals, and also three books. Two of his papers received test-of-time awards from KDD. He is a Fellow of ACM, AAAI, and IEEE.

Neural Networks for Sentiment Analysis

Yue Zhang and Duy Tin Vo

Tuesday, November 1 – 14:00–17:30

TBD

Sentiment analysis has been a major research topic in natural language processing (NLP). Traditionally, the problem has been attacked using discrete models and manually-defined sparse features. Over the past few years, neural network models have received increased research efforts in most sub areas of sentiment analysis, giving highly promising results. A main reason is the capability of neural models to automatically learn dense features that capture subtle semantic information over words, sentences and documents, which are difficult to model using traditional discrete features based on words and ngram patterns. This tutorial gives an introduction to neural network models for sentiment analysis, discussing the mathematics of word embeddings, sequence models and tree structured models and their use in sentiment analysis on the word, sentence and document levels, and fine-grained sentiment analysis. The tutorial covers a range of neural network models (e.g. CNN, RNN, RecNN, LSTM) and their extensions, which are employed in four main subtasks of sentiment analysis:

- Sentiment-oriented embeddings;
- Sentence-level sentiment;
- Document-level sentiment;
- Fine-grained sentiment.

The content of the tutorial is divided into 3 sections of 1 hour each. We assume that the audience is familiar with linear algebra and basic neural network structures, introduce the mathematical details of the most typical models. First, we will introduce the sentiment

Yue Zhang, Assistant Professor, Singapore University of Technology and Design Yue Zhang is an assistant professor at Singapore University of Technology and Design (SUTD). Before joining SUTD, he worked as a postdoctoral research fellow at University of Cambridge. He received his DPhil and MSc degrees from University of Oxford, and BEng from Tsinghua University. His main research interest includes machine learning, syntactic parsing and text mining. Over the recent years, he worked intensively on deep learning and sentiment analysis. He serves in the standing review committee of TACL, and was area chair of COLING'14, NAACL'15 and EMNLP'15. Yue Zhang has given a tutorial at NAACL'10 and a tutorial at ACL'14.

Duy Tin Vo, PhD Candidate, Singapore University of Technology and Design Duy Tin Vo is a PhD candidate at Singapore University of Technology and Design (SUTD) under the supervision of Yue Zhang. He received his BEng from Cantho University. His current research focuses on applying machine learning and deep learning in sentiment analysis.

analysis task, basic concepts related to neural network models for sentiment analysis, and show detail approaches to integrate sentiment information into embeddings. Sentence-level models will be described in the second section. Finally, we will discuss neural network models use for document-level and fine-grained sentiment.

Continuous Vector Spaces for Cross-language NLP Applications

Rafael E. Banchs

Tuesday, November 1 – 14:00–17:30

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The mathematical metaphor offered by the geometric concept of distance in vector spaces with respect to semantics and meaning has been proven to be useful in many monolingual natural language processing applications. There is also some recent and strong evidence that this paradigm can also be useful in the cross-language setting. In this tutorial, we present and discuss some of the most recent advances on exploiting the vector space model paradigm in specific cross-language natural language processing applications, along with a comprehensive review of the theoretical background behind them.

First, the tutorial introduces some fundamental concepts of distributional semantics and vector space models. More specifically, the concepts of distributional hypothesis and term-document matrices are revised, followed by a brief discussion on linear and non-linear dimensionality reduction techniques and their implications to the parallel distributed approach to semantic cognition. Next, some classical examples of using vector space models in monolingual natural language processing applications are presented. Specific examples in the areas of information retrieval, related term identification and semantic compositionality are described.

Then, the tutorial focuses its attention on the use of the vector space model paradigm in cross-language applications. To this end, some recent examples are presented and discussed in detail, addressing the specific problems of cross-language information retrieval, cross-language sentence matching, and machine translation. Some of the most recent developments in the area of Neural Machine Translation are also discussed.

Finally, the tutorial concludes with a discussion about current and future research problems related to the use of vector space models in cross-language settings. Future avenues for scientific research are described, with major emphasis on the extension from vector and matrix representations to tensors, as well as the problem of encoding word position information into the vector-based representations.

Rafael E Banchs, Researcher, Institute for Infocomm Research, Singapore Rafael is a Research Scientist at the Institute for Infocomm Research, in Singapore, where he leads the Dialogue Technology Lab of the Human Language Technology Department. His main area of research is focused on the construction and use of semantic representations to support different natural language processing applications, including machine translation, information retrieval, natural language understanding and chat-oriented dialogue.

Methods and Theories for Large-scale Structured Prediction

Xu Sun and Yansong Feng

Tuesday, November 1 – 14:00-17:30

TBD

Many important NLP tasks are casted as structured prediction problems, and try to predict certain forms of structured output from the input. Examples of structured prediction include POS tagging, named entity recognition, PCFG parsing, dependency parsing, machine translation, and many others. When apply structured prediction to a specific NLP task, there are the following challenges:

1. Model selection: Among various models/algorithms with different characteristics, which one should we choose for a specific NLP task?
2. Training: How to train the model parameters effectively and efficiently?
3. Overfitting: To achieve good accuracy on test data, it is important to control the overfitting from the training data. How to control the overfitting risk for structured prediction?

This tutorial will provide a clear overview of recent advances in structured prediction methods and theories, and address the above issues when we apply structured prediction to NLP tasks. We will introduce large margin methods (e.g., perceptrons, MIRA), graphical models (e.g., CRFs), and deep learning methods (e.g., RNN, LSTM), and show the respective advantages and disadvantages for NLP applications. For the training algorithms, we will introduce online/ stochastic training methods, and we will introduce parallel online/stochastic

Xu Sun, Associate Professor, Peking University Xu Sun is currently an Associate Professor at the School of EECS, Peking University. He got PhD from The University of Tokyo in 2010. He worked at The University of Tokyo, Cornell University, and The Hong Kong Polytechnic University as research fellow/associate from 2010 to 2012. His research interests focus on natural language processing and machine learning, especially on structured natural language processing and structured prediction, and with related publications on ACL, NIPS, IJCAI, Comput. Linguist., IEEE TKDE, etc. He has been area chair of EMNLP; program committee member of ACL, IJCAI, AAAI, NAACL; journal reviewer of IEEE TPAMI, Comput. Linguist., IEEE T-ASL, and so on.

Yansong Feng, Lecturer, Peking University Yansong Feng is a Lecturer at the Institute of Computer Science and Technology, Peking University. He received his Ph.D. degree from ILCC, the University of Edinburgh and worked as a postdoctoral research assistant there in 2011. His research interests focus on applying machine learning techniques to natural language processing and information retrieval applications, such as information extraction, question answering, knowledge acquisition, and so on. His works have been published in top refereed international journals and conferences, such as IEEE TPAMI, ACL, VLDB, EMNLP, NAACL, AAAI, etc. He has served as program committee member of AAAI, EMNLP, NAACL, WWW; journal reviewer of IEEE TASLP, IEEE TKDE, TACL, and so on.

learning algorithms and theories to speed up the training (e.g., the Hogwild algorithm). For controlling the overfitting from training data, we will introduce the weight regularization methods, structure regularization, and implicit regularization methods.

Workshop 1: NLPSM

4th International Workshop on Natural Language Processing for Social Media

Organizers: *Jane Yung-jen Hsu, Lun-Wei Ku, and Cheng-Te Li*

Venue: Salon J

Tuesday, November 1, 2016

08:50–09:00 **Opening**

09:00–10:00 **Keynote Speech: Cristian Danescu-Niculescu-Mizil**

10:00–10:30 **Short Paper Session I**

10:00–10:15 Identifying and Categorizing Disaster-Related Tweets
Kevin Stowe, Michael J. Paul, Martha Palmer, Leysia Palen, and Kenneth Anderson

10:15–10:30 Identifying Eyewitness News-worthy Events on Twitter
Erika Doggett and Alejandro Cantarero

10:30–11:00 **Coffee Break**

11:00–12:15 **Short Paper Session II**

11:00–11:15 Why Do They Leave: Modeling Participation in Online Depression Forums
Farig Sadeque, Ted Pedersen, Thamar Solorio, Prasha Shrestha, Nicolas Rey-Villamizar, and Steven Bethard

11:15–11:30 Twitter at the Grammys: A Social Media Corpus for Entity Linking and Disambiguation
Mark Dredze, Nicholas Andrews, and Jay DeYoung

11:30–11:45 Steps Toward Automatic Understanding of the Function of Affective Language in Support Groups
Amit Navindgi, Caroline Brun, Cécile Boulard Masson, and Scott Nowson

11:45–12:00 Detecting Social Roles in Twitter
Sunghwan Mac Kim, Stephen Wan, and Cecile Paris

12:00–12:15 Identifying Sensible Participants in Online Discussions
Siddharth Jain

12:30–14:00 **Lunch**

14:00–15:30 **Long Paper Session I**

14:00–14:30 emoji2vec: Learning Emoji Representations from their Description
Ben Eisner, Tim Rocktäschel, Isabelle Augenstein, Matko Bosnjak, and Sebastian Riedel

14:30–15:00 Learning Latent Local Conversation Modes for Predicting Comment Endorsement in Online Discussions
Hao Fang, Hao Cheng, and Mari Ostendorf

- 15:00–15:30 Witness Identification in Twitter
Rui Fang, Armineh Nourbakhsh, XIAOMO LIU, Sameena Shah, and Quanzhi Li
- 15:30–16:00 **Coffee Break / Poster Session and Discussion**
- 16:00–17:30 **Long Paper Session II**
- 16:00–16:30 How Do I Look? Publicity Mining From Distributed Keyword Representation of Socially Infused News Articles
Yu-Lun Hsieh, Yung-Chun Chang, Chun-Han Chu, and Wen-Lian Hsu
- 16:30–17:00 Hierarchical Character-Word Models for Language Identification
Aaron Jaech, George Mulcaire, Shobhit Hathi, Mari Ostendorf, and Noah A. Smith
- 17:00–17:30 Human versus Machine Attention in Document Classification: A Dataset with Crowdsourced Annotations
Nikolaos Pappas and Andrei Popescu-Belis
- 17:30–17:40 **Award and Closing**

Workshop 2: SPNLP

Structured Prediction for NLP

Organizers: *Kai-Wei Chang, Alexander Rush, Vivek Srikumar, and Ming-Wei Chang*

Venue: The Gallery

Saturday, November 5, 2016

09:00–10:30 **Section 1**

09:00–09:15 *Welcome (Organizers)*

09:15–10:00 *Invited Talk (Kristina Toutanova)*

10:00–10:30 *Inside-Outside and Forward-Backward Algorithms Are Just Backprop
(tutorial paper)
Jason Eisner*

10:30–11:00 **Coffee break**

11:00–12:30 **Section 2**

11:00–11:45 *Invited Talk (Andrew McCallum)*

11:45–12:30 *Panel (Panel: Moderator - Hal Daume)*

12:30–14:00 **Lunch**

14:00–15:30 **Section 3**

- Research on attention memory networks as a model for learning natural language inference
Degen Huang
- A Joint Model of Rhetorical Discourse Structure and Summarization
Naman Goyal and Jacob Eisenstein
- Posterior regularization for Joint Modeling of Multiple Structured Prediction Tasks with Soft Constraints
Kartik Goyal and Chris Dyer
- A Study of Imitation Learning Methods for Semantic Role Labeling
Travis Wolfe, Mark Dredze, and Benjamin Van Durme
- Introducing DRAIL – a Step Towards Declarative Deep Relational Learning
Xiao Zhang, María Leonor Pacheco, Chang Li, and Dan Goldwasser

14:45–15:30 *Invited Talk (Raquel Urtasun)*

14:00–14:45 **Poster**

15:30–16:00 **Coffee Break**

16:00–17:50 **Section 4**

16:00–16:45 *Invited Talk (Dzmitry Bahdanau)*

16:45–17:15 Unsupervised Neural Hidden Markov Models

Ke M. Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, and Kevin Knight

17:15–17:30 **Closing**

Workshop 3: CSS

Natural Language Processing and Computational Social Science

Organizers: *Dirk Hovy, David Bamman, A. Seza Dogruoz, Jacob Eisenstein, David Jurgens, Brendan O'Connor, Alice Oh, Oren Tsur, and Svitlana Volkova*

Venue: Broken Spoke

Saturday, November 5, 2016

09:00–10:30 **Session 1**

09:00–09:15 *Welcome (Workshop organizers)*

09:15–10:00 *Invited talk (James Pennebaker)*

10:00–10:30 **Doctoral consortium presentations**

10:30–11:00 **coffee break**

11:00–12:30 **Session 2**

11:00–11:45 *Invited talk (Hanna Wallach)*

11:45–12:30 *Invited talk (Cristian Danescu-Niculescu-Mizil)*

12:30–14:00 **Lunch break**

14:00–15:30 **Session 3**

14:00–14:45 *Invited talk (Jason Baldridge)*

14:45–15:30 **1-minute poster madness**

- Relating semantic similarity and semantic association to how humans label other people
Kenneth Joseph and Kathleen M. Carley
- Identifying News from Tweets
Jesse Freitas and Heng Ji
- Obfuscating Gender in Social Media Writing
Shravana Reddy and Kevin Knight
- Social Proof: The Impact of Author Traits on Influence Detection
Sara Rosenthal and Kathy McKeown
- Generating Politically-Relevant Event Data
John Beielor
- User profiling with geo-located posts and demographic data
Adam Poulston, Mark Stevenson, and Kalina Bontcheva
- Gov2Vec: Learning Distributed Representations of Institutions and Their Legal Text
John J. Nay

- #WhoAmI in 160 Characters? Classifying Social Identities Based on Twitter Profile Descriptions
Anna Priante, Djoerd Hiemstra, Tijs van den Broek, Aaqib Saeed, Michel Ehrenhard, and Ariana Need
- Identifying Stance by Analyzing Political Discourse on Twitter
Kristen Johnson and Dan Goldwasser
- Learning Linguistic Descriptors of User Roles in Online Communities
Alex Wang, William L. Hamilton, and Jure Leskovec
- The Effects of Data Collection Methods in Twitter
Sunghwan Mac Kim, Stephen Wan, Cecile Paris, Jin Brian, and Bella Robinson
- Expressions of Anxiety in Political Texts
Ludovic Rheault
- Constructing an Annotated Corpus for Protest Event Mining
Peter Makarov, Jasmine Lorenzini, and Hanspeter Kriesi
- Demographer: Extremely Simple Name Demographics
Rebecca Knowles, Josh Carroll, and Mark Dredze
- Bag of What? Simple Noun Phrase Extraction for Text Analysis
Abram Handler, Matthew Denny, Hanna Wallach, and Brendan O'Connor
- News Sentiment and Cross-Country Fluctuations
Samuel Fraiberger
- The Clinical Panel: Leveraging Psychological Expertise During NLP Research
Glen Coppersmith, Kristy Hollingshead, H. Andrew Schwartz, Molly Ireland, Rebecca Resnik, Kate Loveys, April Foreman, and Loring Ingraham
- Are You a Racist or Am I Seeing Things? Annotator Influence on Hate Speech Detection on Twitter
Zeerak Waseem
- Disentangling Topic Models: A Cross-cultural Analysis of Personal Values through Words
Steven Wilson, Rada Mihalcea, Ryan Boyd, and James Pennebaker

15:30–16:00 **coffee break**

16:00–16:45 **posters**

16:00–17:30 **Session 4**

16:45–17:30 *Invited talk (Molly Roberts)*

Workshop 4: LOUHI

Louhi 2016: the Seventh International Workshop on Health Text Mining and Information Analysis

Organizers: Cyril Grouin, Thierry Hamon, Aurélie Névéol, and Pierre Zweigenbaum

Venue: TBD

Saturday, November 5, 2016

09:00–10:15 Session I - Machine-Learning

- 09:00–09:25 An Investigation of Recurrent Neural Architectures for Drug Name Recognition
Raghavendra Chalapathy, Ehsan Zare Borzeshi, and Massimo Piccardi
- 09:25–09:50 Clinical Text Prediction with Numerically Grounded Conditional Language Models
Georgios Spithourakis, Steffen Petersen, and Sebastian Riedel
- 09:50–10:15 Modelling Radiological Language with Bidirectional Long Short-Term Memory Networks
Savelie Cornegruta, Robert Bakewell, Samuel Withey, and Giovanni Montana

10:15–10:30 Session II - Boosters

11:00–12:30 Session III - Posters

- Data Resource Acquisition from People at Various Stages of Cognitive Decline — Design and Exploration Considerations
Dimitrios Kokkinakis, Kristina Lundholm Fors, and Arto Nordlund
- Analysis of Anxious Word Usage on Online Health Forums
Nicolas Rey-Villamizar, Prasha Shrestha, Farig Sadeque, Steven Bethard, Ted Pedersen, Arjun Mukherjee, and Tamar Solorio
- Retrofitting Word Vectors of MeSH Terms to Improve Semantic Similarity Measures
Zhiguo Yu, Trevor Cohen, Byron Wallace, Elmer Bernstam, and Todd Johnson
- Unsupervised Resolution of Acronyms and Abbreviations in Nursing Notes Using Document-Level Context Models
Katrin Kirchhoff and Anne M. Turner
- Low-resource OCR error detection and correction in French Clinical Texts
Eva D'hondt, Cyril Grouin, and Brigitte Grau
- Citation Analysis with Neural Attention Models
Tsendsuren Munkhdalai, John Lalor, and Hong Yu
- Replicability of Research in Biomedical Natural Language Processing: a pilot evaluation for a coding task
Aurelie Neveol, Kevin Cohen, Cyril Grouin, and Aude Robert

12:30–14:00 **Lunch break**

14:00–15:30 **Session IV - Invited talk**

14:00–15:30 NLP and Online Health Reports: What do we say and what do we mean?
Nigel Collier

16:00–17:15 **Session V - NLP for literature and clinical documents**

16:00–16:25 Leveraging coreference to identify arms in medical abstracts: An experimental study
Elisa Ferracane, Iain Marshall, Byron C. Wallace, and Katrin Erk

16:25–16:50 Hybrid methods for ICD-10 coding of death certificates
Pierre Zweigenbaum and Thomas Lavergne

16:50–17:15 Exploring Query Expansion for Entity Searches in PubMed
Chung-Chi Huang and Zhiyong Lu

Workshop 5: CNS Computing News Storylines

Organizers: *Tommaso Caselli, Ben Miller, Marieke van Erp, Piek Vossen, and David Caswell*

Venue: Moody

Friday, November 5, 2016

09:00–10:30 **Session 1:**

09:10–10:10 *Bridging the Gap between Event Macro-structures and Event Micro-structures*
(*Ed Hovy, Language Technologies Institute, CMU*)

09:00–09:10 **Welcome and Opening Remarks**

10:30–11:00 **Coffee Break**

11:00–12:30 **Session 2:**

11:00–11:25 *Computable News Ecosystems: Roles for Humans and Machines*
David Caswell

11:25–11:50 *Storyline detection and tracking using Dynamic Latent Dirichlet Allocation*
Daniel Bruggemann, Yannik Hermey, Carsten Orth, Darius Schneider, Stefan Selzer, and Gerasimos Spanakis

11:50–12:15 *Real-time News Story Detection and Tracking with Hashtags*
Gevorg Poghosyan and Georgiana Ifrim

12:15–12:30 *Nonparametric Bayesian Storyline Detection from Microtexts*
Vinodh Krishnan and Jacob Eisenstein

12:30–14:00 **Lunch**

14:00–15:30 **Session 3:**

14:00–14:25 *Automatic Identification of Narrative Diegesis and Point of View*
Joshua Eisenberg and Mark Finlayson

14:25–14:50 *Richer Event Description: Integrating event coreference with temporal, causal and bridging annotation*
Tim O’Gorman, Kristin Wright-Bettner, and Martha Palmer

14:50–15:15 *NASTEa: Investigating Narrative Schemas through Annotated Entities*
Dan Simonson and Anthony Davis

15:15–15:30 *The Storyline Annotation and Representation Scheme (StaR): A Proposal*
Tommaso Caselli and Piek Vossen

16:00–17:00 **Discussion and Closing Remarks**

16:00–17:00 **Session 4:**

Workshop 6: UBLP

Uphill Battles in Language Processing: Scaling early achievements to robust methods

Organizers: Annie Louis, Michael Roth, Bonnie Webber, Michael White, and
Luke Zettlemoyer

Venue: Continental Ballroom II

Saturday, November 5, 2016

09:00–10:30 **Text Understanding**

09:00–10:20 *Invited talks, followed by discussion (Hal Daume III, Andrew Kehler, Chris Manning, Marie-Catherine de Marneffe)*

10:20–10:30 **Poster Boasters**

- An Analysis of Prerequisite Skills for Reading Comprehension
Saku Sugawara and Akiko Aizawa
- Bridging the gap between computable and expressive event representations in Social Media
Darina Benikova and Torsten Zesch
- Statistical Script Learning with Recurrent Neural Networks
Karl Pichotta and Raymond Mooney
- Moving away from semantic overfitting in disambiguation datasets
Marten Postma, Filip Ilievski, Piek Vossen, and Marieke van Erp
- Unsupervised Event Coreference for Abstract Words
Dheeraj Rajagopal, Eduard Hovy, and Teruko Mitamura
- Towards Broad-coverage Meaning Representation: The Case of Comparison Structures
Omid Bakhshandeh and James Allen

10:30–11:00 **Coffee break**

11:00–12:30 **Generation**

11:00–12:20 *Invited talks, followed by discussion (David DeVault, Mark Liberman, Diane Litman, Amanda Stent)*

12:20–12:30 **Poster Boasters 2**

- DialPort: A General Framework for Aggregating Dialog Systems
Tiancheng Zhao, Kyusong Lee, and Maxine Eskenazi
- C2D2E2: Using Call Centers to Motivate the Use of Dialog and Diarization in Entity Extraction
Ken Church, Weizhong Zhu, and Jason Pelecanos

- Visualizing the Content of a Children’s Story in a Virtual World: Lessons Learned
Quynh Ngoc Thi Do, Steven Bethard, and Marie-Francine Moens
- Stylistic Transfer in Natural Language Generation Systems Using Recurrent Neural Networks
Jad Kabbara and Jackie Chi Kit Cheung
- Using Language Groundings for Context-Sensitive Text Prediction
Timothy Lewis, Cynthia Matuszek, Amy Hurst, and Matthew Taylor
- Towards a continuous modeling of natural language domains
Sebastian Ruder, Parsa Ghaffari, and John G. Breslin

12:30–14:00 **Lunch break**

14:00–15:20 **Dialogue and Speech**

14:00–15:20 *Invited talks, followed by discussion (Ioannis Konstas, Kathleen McKeown, Margaret Mitchell, Donia Scott)*

15:20–16:00 **Coffee break + poster session**

16:00–16:30 **Poster session (continued)**

16:30–17:50 **Grounded Language**

16:30–17:50 *Invited talks, followed by discussion (James Allen, Joyce Chai, Yejin Choi, Mark Steedman)*

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