## 2nd Workshop on Structured Prediction for Natural Language Processing 2017

Copenhagen, Denmark 9 – 11 September 2017

ISBN: 978-1-5108-4751-4

## Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2017) by the Association for Computational Linguistics All rights reserved.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact the Association for Computational Linguistics at the address below.

Association for Computational Linguistics 209 N. Eighth Street Stroudsburg, Pennsylvania 18360

Phone: 1-570-476-8006 Fax: 1-570-476-0860

acl@aclweb.org

## Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

## **Table of Contents**

Dependency Parsing with Dilated Iterated Graph CNNs  Emma Strubell and Andrew McCallum	1
Entity Identification as Multitasking  Karl Stratos	7
Towards Neural Machine Translation with Latent Tree Attention  James Bradbury and Richard Socher	. 12
Structured Prediction via Learning to Search under Bandit Feedback Amr Sharaf and Hal Daumé III	. 17
Syntax Aware LSTM model for Semantic Role Labeling Feng Qian, Lei Sha, Baobao Chang, LuChen Liu and Ming Zhang	. 27
Spatial Language Understanding with Multimodal Graphs using Declarative Learning based Programing  Parisa Kordjamshidi, Taher Rahgooy and Umar Manzoor	
Boosting Information Extraction Systems with Character-level Neural Networks and Free Noisy Supvision	
Philipp Meerkamp and Zhengyi Zhou	. 44
Piecewise Latent Variables for Neural Variational Text Processing  Iulian Vlad Serban, Alexander Ororbia II, Joelle Pineau and Aaron Courville	. 52