

Pattern-based Approaches to NLP in the Age of Deep Learning (PAN-DL 2022)

Gyeongju, South Korea
12-17 October 2022

ISBN: 978-1-7138-6193-5

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© (2022) by the Association for Computational Linguistics
All rights reserved.

Copyright of each paper stays with the respective authors (or their employers).

Printed with permission by Curran Associates, Inc. (2023)

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

<i>PatternRank: Jointly Ranking Patterns and Extractions for Relation Extraction Using Graph-Based Algorithms</i>	
Robert Vacareanu, Dane Bell and Mihai Surdeanu	1
<i>Key Information Extraction in Purchase Documents using Deep Learning and Rule-based Corrections</i>	
Roberto Arroyo, Javier Yebes, Elena Martínez, Héctor Corrales and Javier Lorenzo	11
<i>Unsupervised Generation of Long-form Technical Questions from Textbook Metadata using Structured Templates</i>	
Indrajit Bhattacharya, Subhasish Ghosh, Arpita Kundu, Pratik Saini and Tapas Nayak	21
<i>Building Korean Linguistic Resource for NLU Data Generation of Banking App CS Dialog System</i>	
Jeongwoo Yoon, Onyu Park, Changhoe Hwang, Gwanghoon Yoo, Eric Laporte and Jeesun Nam	29
<i>SSP-Based Construction of Evaluation-Annotated Data for Fine-Grained Aspect-Based Sentiment Analysis</i>	
Suwon Choi, Shinwoo Kim, Changhoe Hwang, Gwanghoon Yoo, Eric Laporte and Jeesun Nam	38
<i>Accelerating Human Authorship of Information Extraction Rules</i>	
Dayne Freitag, John Cadigan, John Niekrasz and Robert Sasseen	45
<i>Syntax-driven Data Augmentation for Named Entity Recognition</i>	
Arie Sutiono and Gus Hahn-Powell	56
<i>Query Processing and Optimization for a Custom Retrieval Language</i>	
Yakov Kuzin, Anna Smirnova, Evgeniy Slobodkin and George Chernishev	61
<i>Rule Based Event Extraction for Artificial Social Intelligence</i>	
Remo Nitschke, Yuwei Wang, Chen Chen, Adarsh Pyarelal and Rebecca Sharp	71
<i>Neural-Guided Program Synthesis of Information Extraction Rules Using Self-Supervision</i>	
Enrique Noriega-Atala, Robert Vacareanu, Gus Hahn-Powell and Marco A. Valenzuela-Escárcega	85