

DaSH-LA

**The 2nd Workshop on Data Science with Human-in-the-loop:
Language Advances**

Proceedings of the Workshop

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Association for Computational Linguistics (ACL)
209 N. Eighth Street
Stroudsburg, PA 18360
USA
Tel: +1-570-476-8006
Fax: +1-570-476-0860
acl@aclweb.org

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Message from the Workshop Co-chairs

The 2nd Workshop on Data Science with Human-in-the-loop (DaSH) builds on the success of the inaugural workshop that took place at KDD in 2020. The current workshop (DaSH-LA) is co-located with NAACL-HLT 2021, and its focus is on human-in-the-loop aspects in computational linguistics and natural language processing (NLP).

The aim of the DaSH-LA workshop is to stimulate research on human-computer interaction challenges in data science within the broad areas related to language, including but not limited to information extraction, text classification, machine translation, dialog systems, question answering, language generation, information retrieval, digital humanity, and more. We expect the overall series of the DaSH workshops to help develop and grow a strong community of researchers who are interested in this topic and to yield future collaborations and scientific exchanges across the relevant areas of computational linguistics, data mining, machine learning, data and knowledge management, human-machine interaction, and user interfaces.

The participants of the DaSH-LA workshop include researchers and practitioners interested in understanding how to optimize human-computer cooperation and how to minimize human effort along various NLP pipelines in a wide range of tasks and real-life applications. The full-day program includes two keynote talks (by Dan Weld and Joyce Chai), three regular sessions with 14 accepted papers, a special session with highlights from two recent papers with human-in-the-loop focus, as well as a panel of experts (including Danqi Chen, Joel Tetreault and the two keynote speakers).

We would like to thank all people who in one way or another helped with the workshop. We are thankful to the members of the program committee who did an excellent job in reviewing the submitted papers under strict time constraints, and also to the steering committee for their helpful suggestions. Last but not least we would like to thank all authors, speakers and participants at the workshop.

Eduard Dragut, Yunyao Li, Lucian Popa, and Slobodan Vucetic
June 2021

Workshop Co-chairs

Eduard Dragut, Temple University
Lucian Popa, IBM Research
Slobodan Vucetic, Temple University
Yunyao Li, IBM Research

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Conference Program

Keynote Talk 1: Daniel Weld

Regular Session 1: Support for Text Analytics with Human in the Loop

Leveraging Wikipedia Navigational Templates for Curating Domain-Specific Fuzzy Conceptual Bases

Krati Saxena, Tushita Singh, Ashwini Patil, Sagar Sunkle and Vinay Kulkarni

It is better to Verify: Semi-Supervised Learning with a human in the loop for large-scale NLU models

Verena Weber, Enrico Piovano and Melanie Bradford

ViziTex: Interactive Visual Sense-Making of Text Corpora

Natraj Raman, Sameena Shah, Tucker Balch and Manuela Veloso

A Visualization Approach for Rapid Labeling of Clinical Notes for Smoking Status Extraction

Saman Enayati, Ziyu Yang, Benjamin Lu and Slobodan Vucetic

Semi-supervised Interactive Intent Labeling

Saurav Sahay, Eda Okur, Nagib Hakim and Lama Nachman

Highlights: Human in the Loop Papers from Recent Conferences

Human-In-The-Loop Entity Linking for Low Resource Domains

Jan-Christoph Klie, Richard Eckart de Castilho and Iryna Gurevych

Bridging Multi-disciplinary Collaboration Challenges in ML Development via Domain Knowledge Elicitation

Soya Park

Regular Session 2: Human in the Loop for NLP Tasks

Active learning and negative evidence for language identification

Thomas Lippincott and Ben Van Durme

Towards integrated, interactive, and extensible text data analytics with Leam

Peter Griggs, Cagatay Demiralp and Sajjadur Rahman

Data Cleaning Tools for Token Classification Tasks

Karthik Muthuraman, Frederick Reiss, Hong Xu, Bryan Cutler and Zachary Eichenberger

Building Low-Resource NER Models Using Non-Speaker Annotations

Tatiana Tsygankova, Francesca Marini, Stephen Mayhew and Dan Roth

Evaluating and Explaining Natural Language Generation with GenX

Kayla Duskin, Shivam Sharma, Ji Young Yun, Emily Saldanha and Dustin Arendt

Keynote Talk 2: Joyce Chai

Regular Session 3: Human in the Loop Tools

CrossCheck: Rapid, Reproducible, and Interpretable Model Evaluation

Dustin Arendt, Zhuanyi Shaw, Prasha Shrestha, Ellyn Ayton, Maria Glenski and Svitlana Volkova

TopGuNN: Fast NLP Training Data Augmentation using Large Corpora

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Everyday Living Artificial Intelligence Hub

Raymond Finzel, Esha Singh, Martin Michalowski, Maria Gini and Serguei Pakhomov

A Computational Model for Interactive Transcription

William Lane, Mat Bettinson and Steven Bird

Panel