

NLDB 2021

26th International Conference on Applications of Natural Language to Information Systems

Programme

Overview

Wednesday, 23 June 2021

9.00-9.30
Welcome Address
Antonio Krüger, DFKI GmbH
Saarbrücken, Germany

9.30-11.00
Session 1 - Semantic Relations

11.00-11.30
Coffee Break

11.30-13.00
Session 2 - Social Media

13.00-14.30
Lunch Break

14.30-15.40
Session 3 - The Role of Learning

15.40-16.00
Coffee Break

16.00-17.30
Panel
The NL4XAI consortium

Thursday, 24 June 2021

9.00-10.40
Session 4 - Methodological Approaches
(1) and Applications

10.40-11.10
Coffee Break

11.10-12.25
Invited Talk
Elke Teich, Saarland University,
Germany

12.25-14.00
Lunch Break

14.00-15.30
Session 5 - Classification (1)

15.30-16.00
Coffee Break

16.00-17.50
Session 6 - Classification (2) and Linking
Documents (1)

17.50-18.20
Award Session

Friday, 25 June 2021

9.00-10.50
Session 7 - Sentiment Analysis (1) and
Multimodality (1)

10.50-11.20
Coffee Break

11.20-12.35
Invited Talk
Manfred Stede, University of Potsdam,
Germany

12.35-14.00
Lunch Break

14.00-15.40
Session 8 - Methodological Approaches
(2) and Linking Documents (2)

15.40-16.10
Coffee Break

16.10-17.40
Session 9 - Sentiment Analysis (2) and
Multimodality (2)

17.40-18.10
Closing Ceremony and Outlook

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Wednesday, 23 June 2021

- 9.00-9.30
Welcome Address
Antonio Krüger, DFKI GmbH Saarbrücken, Germany
- Session 1 - Semantic Relations**
- 9.30-10.00
Identifying Causality in the Biomedical Domain using an Ensemble Approach with Target-specific Semantic Embeddings
Raksha Sharma and Girish Palshikar
- 10.00-10.30
Entity-Informed Business Relation Extraction
Hadjer Khaldi, Farah Benamara, Amine Abdaoui, Nathalie Aussenac-Gilles and Eunbee Kang
- 10.30-11.00
The Importance of Character-Level Information in an Event Detection Model
Emanuela Boros, Romaric Besançon, Olivier Ferret and Brigitte Grau
- 11.00-11.30
Coffee Break
- Session 2 - Social Media**
- 11.30-12.00
Argument Mining in Tweets: Comparing Crowd and Expert Annotations for Automated Claim and Evidence Detection
Neslihan Iskender, Robin Schaefer, Tim Polzehl and Sebastian Möller
- 12.00-12.30
Authorship Attribution using Capsule-based Fusion Approach
Chanchal Suman, Rohit Kumar, Sriparna Saha and Pushpak Bhattacharyya
- 12.30-13.00
On the Explainability of Automatic Predictions of Mental Disorders from Social Media Data
Ana Sabina Uban, Berta Chulvi and Paolo Rosso
- 13.00-14.30
Lunch Break
- Session 3 - The Role of Learning**
- 14.30-15.00
You can't Learn what's not there: Self Supervised Learning and the Poverty of the Stimulus
Csaba Veres and Jennifer Sampson
- 15.00-15.20
Scaling Federated Learning for Fine-tuning of Large Language Models
Agrin Hilmkil, Sebastian Callh, Matteo Barbieri, Leon René Sütfeld, Edvin Listo Zec and Olof Mogren
- 15.20-15.40
Human-Style Lifelong Learning for Social Intelligent Agents in a Hybrid Architecture
Sergei Nirenburg, Marjorie Mcshane and Jesse English
- 15.40-16.00
Coffee Break
- 16.00-17.30
Panel - The NL4XAI consortium
Introduction - Presenting briefly NL4XAI
Jose Maria Alonso
Designing and Developing Human-centered XAI Models
Alberto Bugarin, Ettore Mariotti, and Jaime Sevilla
Enhancing NL Technologies (NLT) for XAI
Albert Gatt, Michele Cafagna and Juliette Faille
Exploiting Argumentation Technology for XAI
Katarzyna Budzynska, Qurat-ul-ain Shaheen, and Martijn Demollin
Developing Interactive Interfaces for XAI
Mariët Theune, Sumit Srivastava, Alisa Rieger, and Luca Nannini
Open Discussion

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0,2Session 4 - Methodological Approaches (1) and Applications

9.00-9.30

NumER: A Fine-grained Numeral Entity Recognition Dataset

Thanakrit Julavanich and Akiko Aizawa

9.30-10.00

Cross-Domain Transfer of Generative Explanations using Text-to-Text Models

Karl Fredrik Erliksson, Anders Arpteg, Mihhail Matskin and Amir H. Payberah

10.00-10.20

Comparing MultiLingual and Multiple MonoLingual Models for Intent Classification and Slot Filling

Cedric Lothritz, Kevin Allix, Bertrand Lebichot, Lisa Veiber, Tegawendé F. Bissyandé and Jacques Klein

10.20-10.40

Automated Retrieval of Graphical User Interface Prototypes from Natural Language Requirements

Kristian Kolthoff, Christian Bartelt and Simone Paolo Ponzetto

10.40-11.10

Coffee Break

11.10-12.25

Invited Talk: Linguistic Variation Redux

Elke Teich, Saarland University, Germany

12.25-14.00

Lunch Break

Session 5 - Classification (1)

14.00-14.20

BERT-Capsule Model for Cyberbullying Detection in Code-Mixed Indian Languages

Krishanu Maity and Sriparna Saha

14.20-14.40

Multiword Expression Features for Automatic Hate Speech Detection

Nicolas Zampieri, Irina Illina and Dominique Fohr

14.40-15.10

Semantic Text Segment Classification of Structured Technical Content

Julian Höllig, Philipp Dufter, Michaela Geierhos, Wolfgang Ziegler, and Hinrich Schütze

15.10-15.30

On the Generalization of Figurative Language Detection: the Case of Irony and Sarcasm

Lorenzo Famigliini, Elisabetta Fersini and Paolo Rosso

15.30-16.00

Coffee Break

Session 6 - Classification (2) and Linking Documents (1)

16.00-16.30

Sequence-based Word Embeddings for Effective Text Classification

Bruno Guilherme, Fabricio Murai, Olga Goussevskaia and Ana Paula Couto Da Silva

16.30-17.00

Extracting Facts from Case Rulings through Paragraph Segmentation of Judicial Decisions

Andrés Lou, Olivier Salain, Hannes Westermann and Leila Kosseim

17.00-17.20

Detection of Misinformation about COVID-19 in Brazilian Portuguese WhatsApp Messages

Antonio Diogo Forte Martins, Lucas Cabral, Pedro Jorge Chaves Mourao, José Maria Monteiro and Javam de Castro Machado

17.20-17.50

Using Document Embeddings for Background Linking of News Articles

Pavel Khloponin and Leila Kosseim

17.50-18.20

Award Session

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Friday, 25 June 2021

Session 7 - Sentiment Analysis (1) and Multimodality (1)

9.00-9.30

Cross-Active Connection for Image-Text Multimodal Feature Fusion

Junghyuk Im, Dae-Shik Kim and Wooyeong Cho

9.30-9.50

Multi-Step Transfer Learning for Sentiment Analysis

Anton Golubev and Natalia Loukachevitch

9.50-10.20

Human Language Comprehension in Aspect Phrase Extraction with Importance Weighting

Joschka Kersting and Michaela Geierhos

10.20-10.50

Exploring Summarization to Enhance Headline Stance Detection

Robiert Sepulveda-Torres, Marta Vicente, Estela Saquete, Elena

Lloret and Manuel Palomar

10.50-11.20

Coffee Break

11.20-12.35

Invited Talk: Framing Climate Change: A Computational Perspective

Manfred Stede, University of Potsdam, Germany

12.35-14.00

Lunch Break

Session 8 - Methodological Approaches (2) and Linking Documents (1)

14.00-14.30

Word Embedding-based Topic Similarity Measures

Silvia Terragni, Elisabetta Fersini and Enza Messina

14.30-15.00

Mixture Variational Autoencoder of Boltzmann Machines for Text Processing

Bruno Guilherme, Fabricio Murai, Olga Goussevskaia and Ana Paula Couto Da Silva

15.00-15.20

A Modular Approach for Romanian-English Speech Translation

Andrei-Marius Avram, Vasile Pais and Dan Tufis

15.20-15.40

Let's Summarize Scientific Documents! A Clustering-based Approach via Citation Context

Santosh Kumar Mishra, Naveen Saini, Sriparna Saha and Bushpak Bhattacharyya

15.40-16.10

Coffee Break

Session 9 - Sentiment Analysis (2) and Multimodality (2)

16.10-16.40

Improving Sentiment Classification in Low Resource Bengali Language Utilizing Cross-lingual Self-supervised Learning

Salim Sazzed

16.40-17.00

Sentiment Progression based Searching and Indexing of Literary Textual Artefacts

Hrishikesh Kulkarni and Bradly Alicea

17.00-17.20

Predicting Vaccine Hesitancy and Vaccine Sentiment using Topic Modeling and Evolutionary Optimization

Gokul S Krishnan, Sowmya Kamath S and Vijayan Sugumaran

17.20-17.40

Profiling Fake News Spreaders: Personality and Visual Information Matter

Riccardo Cervero, Paolo Rosso and Gabriella Pasi

17.40-18.10

Closing Ceremony and Outlook