

Preface: computational linguistics workshop

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Abstract

This document is the preface of the Computational Linguistics Workshop of the 8th International Conference on Computational Linguistics and Intelligent Systems (CoLInS 2024), April 12–13, 2024, held in Lviv, Ukraine.

Keywords

natural language processing, corpus technologies, ontologies, computer lexicography, NLP

1. Introduction

The main purpose of the Computational Linguistics Workshop is a discussion of the recent research results in all areas of Technology for Natural Language Processing and Intelligent Systems Development [1-6]. The conference is soliciting literature review, survey and research paper comments including, whilst not limited to, the following areas of interest:


1. Natural Language Processing
 - Machine translation;
 - Text summarization;
 - Named-entity recognition;
 - Information retrieval;
 - Text classification;
 - Sentiment analysis;
 - Automated speech recognition;
 - Question answering system;
 - Topic modeling;
 - Text generation;

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- Text understanding;
- Text simplification;
- Spam filtering technology;
- Error correction;
- Chatbots and conversational agents.
- Voice cloning, voice encoders, voice readers, voice output communication aids.

2. Corpus Technologies, Ontologies and Computer Lexicography:

- Corpus creation;
- Corpus annotation;
- Corpus-based translation;
- Collocation identification and extraction;
- Thesauri, ontologies, ontology building;
- Ontology models and ontological graphs;
- Lexicographic systems.
- Digital learner's dictionaries;
- General and special purpose digital dictionaries;
- Digital dictionary-based research;
- Virtual lexicographic laboratories;
- Dictionary-writing systems.

3. Computer-Based Discourse Analysis and Social Media Analysis:

- Discourse organization;
- Critical discourse analysis;
- Sarcasm detection;
- Opinion mining and emotion detection;
- Essay grading;
- Unambiguity/wordplay identification;
- Computer-mediated communication;
- Digital multimodal text creation;
- Statistical text analysis;
- Conceptualization;
- Fake news detection;
- Text authorship identification;
- Good/evil character traits identification.

The language of the Computational Linguistics Workshop is English.

The Computational Linguistics Workshop took the form of an oral presentation by peer-reviewed individual papers. The papers were distributed among 93 external reviewers from France, Germany, The Netherlands, the United States, the United Kingdom, India, Moldova, Czech Republic, Poland, Bulgaria, Portugal, Serbia, Slovenia, Finland and Ukraine.

To make more correct decisions regarding the acceptance or rejection the papers got 3-7 reviews.

The Computational Linguistics Workshop gathered participants from different countries including Germany, Canada, Sweden, Italy, France, Poland, and Ukraine.

This year Organizing Committee received 45 submissions, out of which 27 were accepted for presentation as regular papers. These papers and extended abstracts were published in Volume IV of the 8th International Conference on Computational Linguistics and Intelligent Systems (CoLInS 2024) proceedings.

2. Acknowledgements

The Computational Linguistics Workshop would not have been possible without the support of many people. First of all, we would like to thank all the authors who submitted papers to the Computational Linguistics Workshop and thus demonstrated their interest in the research problems within our scope. We are very grateful to the members of our Program Committee for providing timely and thorough reviews and, also, for being cooperative in doing additional review work. We would like to thank the Organizing Committee of the conference whose devotion and efficiency made this instance of the Computational Linguistics Workshop a very interesting and effective scientific forum. We would like to thank the Computational Linguistics Workshop Chairs, as well as the Program Committee and all Reviewers, for their diligence in selecting the papers and ensuring their high scientific quality.

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