LREC 2022 Workshop
Language Resources and Evaluation Conference
20-25 June 2022

2nd Workshop on Sentiment Analysis
and Linguistic Linked Data
(SALLD-2)

PROCEEDINGS

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Preface

The Linguistic Linked Open Data (LLOD) initiative was created within the Open Linguistics Working Group (OLWG) of the Open Knowledge Foundation to foster the publication of language resources in open licenses. The SALLD (Sentiment Analysis and Linguistic Linked Data) workshop aims at contributing to the LLOD initiative by providing a discussion forum about the usage of Linguistic Linked Data principles in the Sentiment Analysis field, to explore relevant principles, methodologies, resources, tools, and applications, and understand the primary approaches, their advantages, limitations, and available resources and case studies. SALLD-2 is the second edition of the workshop and is held in conjunction with LREC 2022 in Marseille, France, on June 24, 2022. It follows SALLD-1, which was co-located with LDK 2021 – 3rd Conference on Language, Data and Knowledge – in Zaragoza, Spain, on September 1, 2021. The SALLD series was initiated in the framework of the NexusLinguarum COST Action – European network for Web-centred linguistic data science (CA 18209) and has its support.

We are delighted to have a keynote talk, entitled From Data to Meaning in Representation of Emotions, from an invited speaker, Dr. Anna Fensel, Associate Professor at Wageningen University and Research, in the Netherlands, and at University of Innsbruck, Austria. Her current research includes emotion analysis based on knowledge graphs.

The workshop accepted five papers. Three papers are related to sentiment lexicons; one is related to the harmonization of language resources, and another to the exploitation of information available in the Linked Open Data cloud for sentiment analysis.

In the first category, the paper Movie Rating Prediction using Sentiment Features by Apóstolo et al. provides a new sentiment lexicon, Expanded OntoSenticNet (EON), which combines OntoSenticNet with SentiWordNet. This new language resource is used to predict movie ratings. In the same way, the paper Sentiment Analysis of Serbian Old Novels by Stanković et al. publishes a polarity lexicon in Serbian based on three existing lexicons (NRC, Affin, and Bing), the ontolex-lemon model and the sentiment vocabulary Marl. Finally, the paper Evaluating a New Danish Sentiment Resource: the Danish Sentiment Lexicon, DSL by Schneidermann and Pedersen provides an evaluation of Danish sentiment lexicons. We want to highlight the importance of publishing sentiment non-English lexicons for resource-scarce languages.

The second category has been addressed by the paper O-Dang! The Ontology of Dangerous Speech Messages by Stranisci et al., which defines an interoperable knowledge graph to link linguistic resources related to dangerous speech. This knowledge graph has been populated with eight language resources in Italian on dangerous speech, which shows the considerable potential of linked data technology to interlink language resources.

Finally, the use of open linked data for sentiment analysis is exploited by the paper Correlating Facts and Social Media Trends on Environmental Quantities Leveraging Commonsense Reasoning and Human Sentiments by McNamee et al. This paper analyzed how external information (e.g., temperature or pollution) can be combined with the insights of sentiment analysis.

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Workshop Program

Friday, June 24, 2022

14:00–14:05  Welcome

14:05–15:00  Invited talk: From Data to Meaning in Representation of Emotions
Anna Fensel

15:00–15:30  O-Dang! The Ontology of Dangerous Speech Messages
Marco Antonio Stranisci, Simona Frenda, Mirko Lai, Oscar Araque, Alessandra Teresa Cignarella, Valerio Basile, Cristina Bosco and Viviana Patti

15:30–16:00  Movie Rating Prediction using Sentiment Features
João Ramos, Diogo Apóstolo and Hugo Gonçalo Oliveira

16:00–16:30  Break

16:30–17:00  Evaluating a New Danish Sentiment Resource: the Danish Sentiment Lexicon, DSL
Nina Schneidermann and Bolette Pedersen

17:00–17:30  Correlating Facts and Social Media Trends on Environmental Quantities Leveraging Commonsense Reasoning and Human Sentiments
Brad McNamee, Aparna Varde and Simon Razniewski

17:30–18:00  Sentiment Analysis of Serbian Old Novels
Ranka Stanković, Miloš Košprdić, Milica Ikonić Nešić and Tijana Radović

18:00–18:15  Closure