

# Preface

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This volume includes the proceedings of the workshops and tutorials co-located with the 3rd Conference on Language, Data and Knowledge (LDK 2021), held in Zaragoza, Spain, from September 1-4, 2021. Language, Data and Knowledge is a biennial conference series on matters of human language technology, data science, and knowledge representation, with its 3rd edition hosted by the University of Zaragoza. Major support was also provided by the NexusLinguarum COST Action CA18209 “European network for Web-centred linguistic data science”, as well as by the Prêt-à-LLOD project, funded by the European Union’s Horizon 2020 research and innovation programme under grant agreement No. 825182.

Building on current research topics related to the acquisition, representation, curation, and use of language data within data science- and knowledge-based approaches, these workshops and tutorials not only presented application scenarios involving semantic technologies, NLP and machine learning, but also focused on use cases in humanities, in social sciences, and in the biomedical domain, among others.

Overall, 4 workshops and 2 tutorials were accepted, and all the papers presented were included in this joint volume, except for those pertaining to the AI4HI-2021 workshop.

## Workshops:

- AI4HI-2021: 2<sup>nd</sup> International Workshop on Artificial Intelligence for Historical Image and Visual Cultural Artefacts Enrichment
- MDK21: 1<sup>st</sup> International Workshop on Multisensory Data & Knowledge
- SALLD-1: 1<sup>st</sup> Workshop on Sentiment Analysis and Linguistic Linked Data
- TIAD 2021: 4<sup>th</sup> shared task for Translation Inference Across Dictionaries

## Tutorials:

- DBpedia Tutorial at LDK 2021
- LiLa LDK 2021 Tutorial

We would like to thank all authors, participants and workshop/tutorial organizers for their contributions and support to this edition. We sincerely hope that these events continue to provide interdisciplinary meeting points for academics and industry experts from different backgrounds, such as linguistics, computer science, machine learning, and information science, thereby fostering open discussion and cross-disciplinary collaborations.

## LDK 2021 Workshop Chairs

Sara Carvalho, University of Aveiro, Portugal

Renato Rocha Souza, Austrian Academy of Sciences, Austria

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CEUR Workshop Proceedings (CEUR-WS.org).

## **LDK 2021 Workshops and Tutorials included in these proceedings**

The workshops and tutorials co-located with the 3rd Conference on Language, Data and Knowledge (LDK 2021) – and their respective Organizing Committees – whose papers have been accepted and included in these proceedings are listed as follows:

### **MDK21: 1st International Workshop on Multisensory Data & Knowledge**

- Enrico Daga. The Open University, UK
- Albert Meroño-Peñuela. King's College London, UK
- Valentina Presutti. University of Bologna, Italy
- Sara Tonelli. Fondazione Bruno Kessler, Italy
- Raphael Troncy. EURECOM, France
- Marieke van Erp. KNAW Humanities Cluster, The Netherlands

### **SALLD-1: 1st Workshop on Sentiment Analysis and Linguistic Linked Data**

- Ilan Kernerman. K Dictionaries – Lexicala, Tel Aviv, Israel (Coordinator)
- Anna Bączkowska. University of Gdańsk, Poland
- Daniela Gifu. “Alexandru Ioan Cuza” University of Iasi, Romania
- Hugo Gonçalo Oliveira. University of Coimbra, Portugal
- Barbara Lewandowska-Tomaszczyk. State University of Applied Sciences, Konin, Poland
- Chaya Liebeskind. Jerusalem College of Technology, Israel
- Marco Carlo Passarotti. Università Cattolica del Sacro Cuore, Milan, Italy
- Dimitar Trajanov. ss. Cyril and Methodius University, Skopje, North Macedonia
- Slavko Žitnik. University of Ljubljana, Slovenia

### **TIAD 2021: 4th shared task for Translation Inference Across Dictionaries**

- Jorge Gracia. University of Zaragoza, Spain
- Besim Kabashi. Friedrich-Alexander University of Erlangen-Nuremberg and Ludwig-Maximilian University of Munich, Germany
- Ilan Kernerman. K Dictionaries – Lexicala, Tel Aviv, Israel
- Noam Ordan. University of Haifa, Israel

### **DBpedia Tutorial at LDK 2021**

- Milan Dojchinovski. InfAI, DBpedia Association
- Jan Forberg. InfAI, DBpedia Association
- Johannes Frey. InfAI, DBpedia Association
- Julia Holze. InfAI, DBpedia Association
- Sebastian Hellmann. InfAI, DBpedia Association

### **LiLa LDK 2021 Tutorial**

- Marco Passarotti. Università Cattolica del Sacro Cuore, Italy
- Eleonora Litta. Università Cattolica del Sacro Cuore, Italy
- Francesco Mambrini. Università Cattolica del Sacro Cuore, Italy
- Rachele Sprugnoli. Università Cattolica del Sacro Cuore, Italy