

LREC-COLING 2024

**Joint Workshop on Multiword Expressions and
Universal Dependencies (MWE-UD 2024)**

Workshop Proceedings

Editors

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Proceedings of the LREC-COLING 2024 Joint Workshop on Multiword Expressions and Universal Dependencies (MWE-UD 2024)

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Preface

Multiword expressions (MWEs) are word combinations that exhibit lexical, syntactic, semantic, pragmatic, and/or statistical idiosyncrasies (Baldwin and Kim, 2010), such as *by and large*, *hot dog*, *pay a visit* and *pull someone's leg*. The notion encompasses closely related phenomena: idioms, compounds, light-verb constructions, phrasal verbs, rhetorical figures, collocations, institutionalized phrases, *etc.* Their behavior is often unpredictable; for example, their meaning often does not result from the direct combination of the meanings of their parts. Given their irregular nature, MWEs often pose complex problems in linguistic modeling (e.g. annotation), NLP tasks (e.g. parsing), and end-user applications (e.g. natural language understanding and MT), hence still representing an open issue for computational linguistics (Constant et al., 2017). This joint workshop also marks the 20th anniversary of the MWE workshop series since 2003 (Bond et al., 2003). The organization of the workshops is sponsored by SIGLEX.¹

Universal Dependencies (UD; De Marneffe et al., 2021) is a framework for cross-linguistically consistent treebank annotation that has so far been applied to over 100 languages. The framework aims to capture similarities as well as idiosyncrasies among typologically different languages (e.g., morphologically rich languages, pro-drop languages, and languages featuring clitic doubling). The goal of developing UD was not only to support comparative evaluation and cross-lingual learning but also to facilitate multilingual natural language processing and enable comparative linguistic studies. Starting with the first UD workshop in 2017 (de Marneffe et al., 2017), this joint workshop is the 7th edition in the series.

For the current edition, the MWE and UD communities decided to organize a joint event, the MWE-UD workshop which is part of LREC-COLING 2024. This is a timely collaboration because the two communities clearly have overlapping interests. For instance, while UD has several dependency relations that are intended for annotation of MWEs, both annotation guidelines (i.e. is *syntactic irregularity and inflexibility* or *semantic non-compositionality* the leading criterion?) and annotation practice (both across treebanks for a single language and across languages) for MWEs can be improved (Schneider and Zeldes, 2021). For verbal MWEs, the PARSEME corpora for 26 languages provide annotation of MWEs consistent with UD annotation (Savary et al., 2023). Both communities share an interest in developing guidelines, data-sets, and tools that can be applied to a wide range of typologically diverse languages, raising fundamental questions about tokenization, lemmatization, and morphological decomposition of tokens. Proposals for harmonizing annotation practice between what has been achieved in PARSEME and UD and expanding PARSEME annotation to non-verbal MWEs are also central to the recently started UniDive² COST action (CA21167). UniDive also co-organizes and sponsors this joint workshop.

We are happy to have received 53 submissions, 29 long, 15 short, and 9 non-archival. 19 long, 7 short, and 9 non-archival contributions were selected for presentation at the workshop, bringing the overall acceptance rate for archival papers to 59%. The distribution over tracks is almost even: 8 of 12 archival submissions were accepted for the UD track, 9 of 16 for the MWE track, and 9 of 16 for the MWE+UD track. One long paper was withdrawn after acceptance.

An important theme in both the UD and MWE community is increasing the number of languages and language families that can be used as the object of study, for instance by making annotated data available in a standard format. The current workshop makes a substantial contribution towards that goal, as it includes contributions to Arabic, Hindi, Old Egyptian, Vedic, Northern Kurdish, Slovene, Dutch, Bavarian, South Asian languages, Turkic languages, Gujarati, Saraiki, Swedish, and more. Another important theme for research on MWEs has been the question

¹<https://siglex.org/>

²<https://unidive.lisn.upsaclay.fr>

of to what extent Large Language Models deal adequately with the idiomatic meaning of multi-word expressions. This workshop also includes several contributions that explicitly deal with this question. Apart from these important and cross-disciplinary themes, there are also contributions on UD addressing such issues as assessing and enhancing the value of UD parsing for applications, improved automatic parsing procedures, and the interface between syntax and morphology. Contributions that are primarily concerned with MWEs address a.o. the role of lexical resources, automatic identification of MWEs, the proper annotation of idiomatic meanings in a corpus with fully structured meaning annotation, annotation in parallel corpora, and cross-lingually consistent annotation of MWEs with word senses. Some of these themes re-occur in the contributions that address both UD and MWEs, such as the interplay of lexicon and corpus annotations, the annotation of multiword functional categories, the annotation of light verb constructions, and the use of UD and MWEs in the task of stance detection.

Archna Bhatia, Gosse Bouma, A. Seza Dođruöz, Kilian Evang, Marcos Garcia, Voula Giouli, Lifeng Han, Joakim Nivre, Alexandre Rademaker.

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Keynote Speakers

Natalia Levshina, Radboud University
Harish Tayyar Madabushi, University of Bath

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Li Liu and Francois Lareau
- 10:10–10:30 Sign of the Times: Evaluating the use of Large Language Models for Idiomaticity Detection
Dylan Phelps, Thomas M. R. Pickard, Maggie Mi, Edward Gow-Smith and Aline Villavicencio
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- 12:00–13:00** **Session 3: Oral presentations**
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Federica Gamba, Abishek Stephen and Zdeněk Žabokrtský
- 12:20–12:40 Light Verb Constructions in Universal Dependencies for South Asian Languages
Abishek Stephen and Daniel Zeman
- 12:40–13:00 Strategies for the Annotation of Pronominalised Locatives in Turkic Universal Dependency Treebanks
Jonathan Washington, Çağrı Çöltekin, Furkan Akkurt, Bermet Chontaeva, Soudabeh Eslami, Gulnura Jumalieva, Aida Kasieva, Aslı Kuzgun, Büşra Marşan and Chihiro Taguchi
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MultiMWE: Building a Multi-lingual Multi-Word Expression (MWE) Parallel Corpora [non-archival]
Lifeng Han, Gareth Jones and Alan Smeaton

AlphaMWE-Arabic: Arabic Edition of Multilingual Parallel Corpora with Multiword Expression Annotations [non-archival]
Najet Hadj Mohamed, Malak Rassem, Lifeng Han and Goran Nenadic

A demonstration of MWE-Finder and MWE-Annotator [non-archival]
Jan Odijk, Martin Kroon, Tijmen Baarda, Ben Bonfil and Sheean Spoel

MaiBaam: A Multi-Dialectal Bavarian Universal Dependency Treebank [non-archival]
Verena Blaschke, Barbara Kovačić, Siyao Peng, Hinrich Schütze and Barbara Plank

Is Less More? Quality, Quantity and Context in Idiom Processing with Natural Language Models [non-archival]
Agne Knietaite, Adam Allsebrook, Anton Minkov, Adam Tomaszewski, Norbert Slinko, Richard Johnson, Thomas M. R. Pickard and Aline Villavicencio

A Corpus of Persian Sentences Annotated with Verbal Multiword Expressions: Development and Guidelines [non-archival]
Vahide Tajalli, Yaldasadat Yarandi, Mahtab sarlak, Mehrnoush Shamsfard and Arezoo Haghbin

Annotating Compositionality Scores for Irish Noun Compounds is Hard Work [non-archival]
Abigail Walsh, Teresa Clifford, Emma Daly, Jane Dunne, Brian Davis and Gearóid Ó Cleircín

Redefining Syntactic and Morphological Tasks for Typologically Diverse Languages [non-archival]
Omer Goldman, Leonie Weissweiler and Reut Tsarfaty

UCxn: Typologically Informed Annotation of Constructions Atop Universal Dependencies [non-archival]
Leonie Weissweiler, Nina Böbel, Kirian Guiller, Santiago Herrera, Wesley Scivetti, Arthur Lorenzi, Nurit Melnik, Archana Bhatia, Hinrich Schütze, Lori Levin, Amir Zeldes, Joakim Nivre, William Croft and Nathan Schneider