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Introduction

The Joint Workshop on Multiword Expressions and Electronic Lexicons (MWE-LEX 2020)\(^1\) took place in an online format on December 13, 2020 in conjunction with COLING 2020.

This was the 16th edition of the Workshop on Multiword Expressions (MWE 2020). The event was organized and sponsored by the Special Interest Group on the Lexicon (SIGLEX)\(^2\) of the Association for Computational Linguistics (ACL) and by ELEXIS\(^3\) - European Lexicographic Infrastructure.

The joint MWE-LEX workshop addressed two domains – multiword expressions and (electronic) lexicons – with partly overlapping communities and research interests, but divergent practices and terminologies.

Multiword expressions (MWEs) are word combinations, such as in *the middle of nowhere*, *hot dog*, *to make a decision* or *to kick the bucket*, displaying lexical, syntactic, semantic, pragmatic and/or statistical idiosyncrasies. Because of their unpredictable behavior, notably their non-compositional semantics, MWEs pose problems in linguistic modelling (e.g. treebank annotation, grammar engineering), NLP pipelines (notably when orchestrated with parsing), and end-user applications (e.g. information extraction).

Because MWE-hood is a largely lexical phenomenon, appropriately built electronic MWE lexicons turn out to be quite important for NLP. Large standardised multilingual, possibly interconnected, NLP-oriented MWE lexicons prove indispensable for NLP tasks such as MWE identification, due to its critical sensitivity to unseen data. But the development of such lexicons is challenging and calls for tools which would leverage, on the one hand, MWEs encoded in pre-existing NLP-unaware lexicons and, on the other hand, automatic MWE discovery in large non-annotated corpora.

In order to allow better convergence and scientific innovation within these two largely complementary scientific communities, we called for papers on joint topics on MWEs and e-lexicons, on the one hand, and on MWE-specific topics, on the other hand.

**Joint topics on MWEs and e-lexicons**

- Extracting and enriching MWE lists from traditional human-readable lexicons for NLP use
- Formats for NLP-applicable MWE lexicons
- Interlinking MWE lexicons with other language resources
- Using MWE lexicons in NLP tasks (identification, parsing, translation)
- MWE discovery in the service of lexicography
- Multiword terms in specialized lexicons
- Representing semantic properties of MWEs in lexicons
- Paving the way towards encoding lexical idiosyncrasies in constructions

\(^1\)http://multiword.sourceforge.net/mwelex2020
\(^2\)http://alt.qcri.org/siglex/
\(^3\)https://elex.is/
**MWE-specific topics**

- Computationally-applicable theoretical work on MWEs and constructions in psycholinguistics, corpus linguistics and formal grammars
- MWE and construction annotation in corpora and treebanks
- Processing of MWEs and constructions in syntactic and semantic frameworks (e.g. CCG, CxG, HPSG, LFG, TAG, UD, etc.), and in end-user applications (e.g. information extraction, machine translation and summarization)
- Original discovery and identification methods for MWEs and constructions
- MWEs and constructions in language acquisition and in non-standard language (e.g. tweets, forums, spontaneous speech)
- Evaluation of annotation and processing techniques for MWEs and constructions
- Retrospective comparative analyses from the PARSEME shared tasks on automatic identification of MWEs

We received 25 submissions (14 long and 11 short papers). We selected 6 long papers and 7 short ones. All 13 accepted papers were presented orally. The overall acceptance rate was 52%.

In addition to the oral sessions, the workshop featured an invited talk that given by Roberto Navigli from Sapienza University of Rome.

The workshop also organized the PARSEME Shared Task on Semi-Supervised Identification of Verbal MWEs (edition 1.2). This was a follow-up of editions 1.0 (2017), and 1.1 (2018). Edition 1.2 featured (a) improved and extended corpora annotated with MWEs, (b) complementary unannotated corpora for unsupervised MWE discovery, and (c) a new evaluation methodology focusing on unseen MWEs. Following the synergy with Elexis, our aim was to foster the development of unsupervised methods for MWE lexicon induction, which in turn can be used for identification.

Seven teams submitted 9 system results to the shared task (some teams made 2 submissions): 2 to the closed track (where only the data provided by the organizers could be used on input) and 7 to the open track (where external data were also allowed). Out of these 9 results, 4 covered all 14 languages for which data were made available by the organizers. Six teams also submitted systems description papers, all of which were accepted and presented orally.

We are grateful to the paper authors for their valuable contributions, the members of the Program Committee for their thorough and timely reviews, all members of the organizing committee for the fruitful collaboration, and all the workshop participants for their interest in this event. Our thanks also go to the COLING 2020 organizers for their support, as well as to SIGLEX and ELEXIS for their endorsement.

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Eric Wehrli, University of Geneva (Switzerland)
Seid Muhie Yimam, Universität Hamburg (Germany)

Invited Speaker:
Roberto Navigli, Sapienza University of Rome
**Table of Contents**

*CollFrEn: Rich Bilingual English–French Collocation Resource*
  Beatriz Fisas, Joan Codina-Filbá, Luis Espinosa Anke and Leo Wanner ...................... 1

*Filling the ___-s in Finnish MWE lexicons*
  Frankie Robertson ................................................................. 13

*Hierarchy-aware Learning of Sequential Tool Usage via Semi-automatically Constructed Taxonomies*
  Nima Nabizadeh, Martin Heckmann and Dorothea Kolossa ................................. 22

*Scalar vs. mereological conceptualizations of the N-BY-N and NUM-BY-NUM adverbials*
  Lucia Vlášková and Mojmír Dočekal ....................................... 27

*Polish corpus of verbal multiword expressions*
  Agata Savary and Jakub Waszczuk ........................................ 32

*AlphaMWE: Construction of Multilingual Parallel Corpora with MWE Annotations*
  Lifeng Han, Gareth Jones and Alan Smeaton .................................. 44

*Annotating Verbal MWEs in Irish for the PARSEME Shared Task 1.2*
  Abigail Walsh, Teresa Lynn and Jennifer Foster ............................. 58

*VMWE discovery: a comparative analysis between Literature and Twitter Corpora*
  Vivian Stamou, Artemis Xylogianni, Marilena Malli, Penny Takorou and Stella Markantonatou 66

*Generationary or: “How We Went beyond Sense Inventories and Learned to Gloss”*
  Roberto Navigli ................................................................. 73

*Multi-word Expressions for Abusive Speech Detection in Serbian*
  Ranka Stankovic, Jelena Mitrović, Danka Jokic and Cvetana Krstev ..................... 74

*Disambiguation of Potentially Idiomatic Expressions with Contextual Embeddings*
  Murathan Kurfalı and Robert Östling ...................................... 85

*Comparing word2vec and GloVe for Automatic Measurement of MWE Compositionality*
  Thomas Pickard ......................................................................... 95

*Automatic detection of unexpected/erroneous collocations in learner corpus*
  Jen-Yu Li and Thomas Gaillat ................................................ 101

*Edition 1.2 of the PARSEME Shared Task on Semi-supervised Identification of Verbal Multiword Expressions*

*HMSid and HMSid2 at PARSEME Shared Task 2020: Computational Corpus Linguistics and unseen-in-training MWEs*
  Jean-Pierre Colson .................................................................. 119

*Seen2Unseen at PARSEME Shared Task 2020: All Roads do not Lead to Unseen Verb-Noun VMWEs*
  Caroline Pasquer, Agata Savary, Carlos Ramisch and Jean-Yves Antoine ............ 124
ERMI at PARSEME Shared Task 2020: Embedding-Rich Multiword Expression Identification
Zeynep Yirmibesoglu and Tunga Gungor

TRAVIS at PARSEME Shared Task 2020: How good is (m)BERT at seeing the unseen?
Murathan Kurfalı

MTLB-STRUCT @Parseme 2020: Capturing Unseen Multiword Expressions Using Multi-task Learning and Pre-trained Masked Language Models
Shiva Taslimipoor, Sara Bahaadini and Ekaterina Kochmar

MultiVitaminBooster and MultiVitaminRegressor at PARSEME Shared Task 2020: Combining Window- and Dependency-Based Features with Multilingual Contextualized Word Embeddings for Detecting Verbal Multiword Expressions
Sebastian Gombert and Sabine Bartsch
Workshop Program

Sunday, December 13, 2020

14:00–14:10 Welcoming and preparation

14:10–14:40 Session 1: MWE Resources and Linguistics

CollFrEn: Rich Bilingual English–French Collocation Resource
Beatriz Fisas, Joan Codina-Filbá, Luis Espinosa Anke and Leo Wanner

Filling the ___-s in Finnish MWE lexicons
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Nima Nabizadeh, Martin Heckmann and Dorothea Kolossa

Scalar vs. mereological conceptualizations of the N-BY-N and NUM-BY-NUM adverbials
Lucia Vlášková and Mojmír Dočekal

14:40–14:50 Break

14:50–15:20 Session 2: Verbal Multiword Expressions

Polish corpus of verbal multiword expressions
Agata Savary and Jakub Waszczuk

AlphaMWE: Construction of Multilingual Parallel Corpora with MWE Annotations
Lifeng Han, Gareth Jones and Alan Smeaton

Annotating Verbal MWEs in Irish for the PARSEME Shared Task 1.2
Abigail Walsh, Teresa Lynn and Jennifer Foster

VMWE discovery: a comparative analysis between Literature and Twitter Corpora
Vivian Stamou, Artemis Xylogianni, Marilena Malli, Penny Takorou and Stella Markantonatou
Sunday, December 13, 2020 (continued)

15:20–15:30  Break

15:30–16:30  Session 3: Invited Talk

**Generationary or: "How We Went beyond Sense Inventories and Learned to Gloss"**
Roberto Navigli

16:30–16:40  Break

16:40–17:10  Session 4: Processing Multiword Expressions

**Multi-word Expressions for Abusive Speech Detection in Serbian**
Ranka Stankovic, Jelena Mitrović, Danka Jokic and Cvetana Krstev

**Disambiguation of Potentially Idiomatic Expressions with Contextual Embeddings**
Murathan Kurfalı and Robert Östling

**Comparing word2vec and GloVe for Automatic Measurement of MWE Compositionality**
Thomas Pickard

**Automatic detection of unexpected/erroneous collocations in learner corpus**
Jen-Yu Li and Thomas Gaillat

17:10–17:20  Break
Sunday, December 13, 2020 (continued)

17:20–18:00  Session 5: Shared Task

Edition 1.2 of the PARSEME Shared Task on Semi-supervised Identification of Verbal Multiword Expressions
Carlos Ramisch, Agata Savary, Bruno Guillaume, Jakub Waszczuk, Marie Candito, Ashwini Vaidya, Verginica Barbu Mititelu, Archana Bhatia, Uxoa Iñurrieta, Voula Giouli, Tunga Gungor, Menghan Jiang, Timm Lichte, Chaya Liebeskind, Johanna Monti, Renata Ramisch, Sara Stymne, Abigail Walsh and Hongzhi Xu

HMSid and HMSid2 at PARSEME Shared Task 2020: Computational Corpus Linguistics and unseen-in-training MWEs
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Sebastian Gombert and Sabine Bartsch

18:00–18:10  Break

18:10–19:10  Session 6: Section reporting, panel discussion