

LREC 2020 Workshop  
Language Resources and Evaluation Conference  
11–16 May 2020

**Workshop on Multimodal Wordnets  
(MMWN-2020)**

**PROCEEDINGS**

Thierry Declerck, Itziar Gonzalez-Dios, German Rigau (eds)

**Proceedings of the LREC 2020  
Workshop on Multimodal Wordnets  
(MMWN-2020)**

Edited by: Thierry Declerck, Itziar Gonzalez-Dios, German Rigau

**ISBN: 979-10-95546-41-2**

**EAN: 9791095546412**

**For more information:**

European Language Resources Association (ELRA)

9 rue des Cordelières

75013, Paris

France

<http://www.elra.info>

Email: [lrec@elda.org](mailto:lrec@elda.org)

© European Language Resources Association (ELRA)

These workshop proceedings are licensed under a Creative Commons  
Attribution-NonCommercial 4.0 International License

## Preface

The Global WordNet Association (GWA) is a free, public and non-commercial organization that provides a platform for discussing, sharing and connecting wordnets for all languages in the world. GWA created in 2019 a Working Group (WG) dedicated to multimodal wordnets in order to extend the development and use of wordnets to modalities beyond text. As an initiative of this WG, the Multimodal Wordnets workshop was organised as a satellite event to the twelfth edition of the International Conference on Language Resources and Evaluation (LREC) 2020.

The main objective of this half-day workshop was to initiate the study of the interaction and cross-fertilization between wordnets and existing multimodal resources.

Unfortunately, due to the global issue of the COVID-19 outbreak, the LREC event and the associated workshops could not be held in May in Marseille. However, the Multimodal Wordnets workshop proceedings are published in order to acknowledge and present all the work done by the authors and reviewers.

Seven papers were accepted about the following topics:

- Itziar Gonzalez-Dios, Javier Alvez and German Rigau describe an approach for an ontological organization of qualities based on WordNet adjectives for SUMO-based ontologies.
- Soumya Mohapatra, Shikhar Agnihotri, Apar Garg, Praveen Shah and Shampa Chakraverty present an extension of IndoWordnet with dialectal variants and information.
- John Philip McCrae, Alexandre Rademaker, Ewa Rudnicka and Francis Bond introduce the development under an open-source paradigm of a new version of the English WordNet.
- Jon Alkorta and Itziar Gonzalez-Dios propose a novel approach towards enriching the adjective category in the Basque WordNet by means of a sentiment lexicon.
- Jacek Marciniak presents a solution for a multimodal data organisation based on the the wordnet structure.
- Alexandre Tessarollo and Alexandre Rademaker describe the extension of English WordNet with lithological information based on an authoritative thesaurus.
- Thierry Declerck reports on current work on adding pronunciation information to Wordnets by experimenting with Odenet (Open German WordNet) and Wiktionary.

We hope that the content of those papers can be presented in the context of a future LREC or of relevant events.

Thierry Declerck, Itziar Gonzalez-Dios, German Rigau  
Saarbrücken and Donostia, May 2020

**Organizers:**

Itziar Gonzalez-Dios, University of the Basque Country UPV/EHU  
Francis Bond, Nanyang Technological University  
Thierry Declerk, German Research Center for Artificial Intelligence  
Christiane Fellbaum, Princeton University  
Alexandre Rademaker, IBM Research Brazil and EMap/FGV  
German Rigau, University of the Basque Country UPV/EHU  
Piek Vossen, VU University Amsterdam

**Program Committee:**

Manex Agirrezabal, University of Copenhagen  
Izaskun Aldezabal, University of the Basque Country UPV/EHU  
Gorka Azkune, University of the Basque Country UPV/EHU  
Sonja Bosch, Department of African Languages, University of South Africa  
Federico Boschetti, Institute of computational linguistics "Antonio Zampolli" (ILC-CNR)  
Luis Chiruzzo, Universidad de la República de Uruguay  
Francesca Frontini, Université Paul Valéry, Montpellier  
Xavier Gómez Guinovart, Universidade de Vigo  
Fahad Khan, ILC-CNR, Italy  
Maria Koutsombogera, Trinity College Dublin  
Robert Krovetz, Lexical Research  
John P. McCrae, National University of Ireland  
Gerard de Melo, Rutgers University  
Verginica Mititelu, Romanian Academy Research Institute for Artificial Intelligence  
Terhi Nurmikko-Fuller, Australian National University  
Ahti Lohk, Tallinn University of Technology  
Petya Osenova, Sofia University  
Patrizia Paggio, Copenhagen University  
Bolette Pedersen, University of Copenhagen  
Maciej Piasecki, Wrocław University of Technology  
Eli Pociello, Elhuyar Fundazioa  
Ronald Poppe, Utrecht University  
Andrea Amelio Ravelli, University of Florence  
Kevin Scannell, Saint Louis University  
Aitor Soroa, University of the Basque Country UPV/EHU

## Table of Contents

|   |    |
|---|----|
| <i>Towards modelling SUMO attributes through WordNet adjectives: a Case Study on Qualities</i><br>Itziar Gonzalez-Dios, Javier Alvez and German Rigau .....                                 | 1  |
| <i>Incorporating Localised Context in Wordnet for Indic Languages</i><br>Soumya Mohapatra, Shikhar Agnihotri, Apar Garg, Praveen Shah and Shampa Chakraverty .....                          | 7  |
| <i>English WordNet 2020: Improving and Extending a WordNet for English using an Open-Source Methodology</i><br>John Philip McCrae, Alexandre Rademaker, Ewa Rudnicka and Francis Bond ..... | 14 |
| <i>Exploring the Enrichment of Basque WordNet with a Sentiment Lexicon</i><br>Itziar Gonzalez-Dios and Jon Alkorta .....  | 20 |
| <i>Wordnet As a Backbone of Domain and Application Conceptualizations in Systems with Multimodal Data</i><br>Jacek Marciniak .....  | 25 |
| <i>Inclusion of Lithological terms (rocks and minerals) in The Open Wordnet for English</i><br>Alexandre Tessarollo and Alexandre Rademaker .....   | 33 |
| <i>Adding Pronunciation Information to Wordnets</i><br>Thierry Declerck, Lenka Bajcetic and Melanie Siegel.....   | 39 |

**Workshop Program**  
**As it was planned, but due to the Covid-19 outbreak**  
**the LREC conference and the associated workshops**  
**could not take place in May 2020 in Marseilles**

*Towards modelling SUMO attributes through WordNet adjectives: a Case Study on Qualities*

Itziar Gonzalez-Dios, Javier Alvez and German Rigau

*Incorporating Localised Context in Wordnet for Indic Languages*

Soumya Mohapatra, Shikhar Agnihotri, Apar Garg, Praveen Shah and Shampa Chakraverty

*English WordNet 2020: Improving and Extending a WordNet for English using an Open-Source Methodology*

John Philip McCrae, Alexandre Rademaker, Ewa Rudnicka and Francis Bond

*Exploring the Enrichment of Basque WordNet with a Sentiment Lexicon*

Itziar Gonzalez-Dios and Jon Alkorta

*Wordnet As a Backbone of Domain and Application Conceptualizations in Systems with Multimodal Data*

Jacek Marciniak

*Inclusion of Lithological terms (rocks and minerals) in The Open Wordnet for English*

Alexandre Tessarollo and Alexandre Rademaker

*Adding Pronunciation Information to Wordnets*

Thierry Declerck, Lenka Bajcetic and Melanie Siegel