



Financiado por la Unión Europea  
NextGenerationEU

## CEUR Workshop Proceedings

Proceedings of the Doctoral Symposium on Natural Language Processing from the  
Proyecto ILENIA (PLN-DS-2023)

### Papers

#### Progress in the Modeling of Violent Messages in Spanish Social Networks

Beatrix Botella Gil..... 1-9

#### Towards An Artificial Intelligence (AI)-based Framework to Automatically Adapt Short Stories in Spanish into Easier and Accessible Versions

Isam Diab..... 10-18

#### Semantic Planning for Multilingual Fiction Generation

Nayla Escribano..... 19-27

#### Extraction of Stylistic Information from Spanish Documents

César Espín Riofrío..... 28-36

#### Automatically Designing Machine Learning Models out of Natural Language

Ernesto Luis Estevanell Valladares..... 37-44

#### Automatic Detection of Hope Speech

Daniel García Baena..... 45-51

#### Mitigating Biases in Deep Learning Models: A Path Towards Fairness and Inclusivity

Ismael Garrido-Muñoz..... 52-59

#### Commonsense Knowledge and Controllable Techniques for an Effective and Efficient Approach to Text Generation

Iván Martínez Murillo..... 60-67

Copyright @ 2023 for the individual papers by the papers' authors.

Copyright @ 2023 for the volume as a collection by its editors. This volume and its papers are published under the Creative Commons License Attribution 4.0 International (CC BY4.0).

<b>Enriching Natural Language Processing Systems with Semantic-Pragmatic Information through Communicative Intentions</b>	
María Miró Maestre .....	68-76
<b>Identification of Complex Words in the Academic Domain in Spanish</b>	
Jenny Ortiz Zambrano.....	77-85
<b>Automated Media Bias Detection: Challenges and Opportunities</b>	
Francisco Javier Rodrigo Ginés .....	86-94
<b>Exploring Readability Assessment and Text Simplification for Science Documents within a Multilingual Educational Context</b>	
Suna Şeyma Uçar .....	95-103
<b>Entity Modelling through Ontologies and Large Language Models</b>	
Fabio Antonio Yáñez Romero .....	104-110
<b>Multilingual Information Extraction in Clinical Texts Using Deep Learning Approaches</b>	
Elena Zotova .....	111-119

Copyright @ 2023 for the individual papers by the papers' authors.

Copyright @ 2023 for the volume as a collection by its editors. This volume and its papers are published under the Creative Commons License Attribution 4.0 International (CC BY4.0).



Financiado por la Unión Europea  
NextGenerationEU

## CEUR Workshop Proceedings

Proceedings of the Doctoral Symposium on Natural Language Processing from the  
Proyecto ILENIA (PLN-DS-2023)

## Organization

### Organizing committee

María Teresa Martín Valdivia	Universidad de Jaén	maite@ujaen.es
Eugenio Martínez Cámaras	Universidad de Jaén	emcamara@ujaen.es
M. Dolores Molina González	Universidad de Jaén	mdmolina@ujaen.es
Salud María Jiménez Zafra	Universidad de Jaén	sjzafra@ujaen.es

**Edited in:** Universidad de Jaén

**Year:** 2023

### Editors

M. Teresa Martín Valdivia	Universidad de Jaén	maite@ujaen.es
Eugenio Martínez Cámaras	Universidad de Jaén	emcamara@ujaen.es
M. Dolores Molina González	Universidad de Jaén	mdmolina@ujaen.es
Salud María Jiménez Zafra	Universidad de Jaén	sjzafra@ujaen.es

**Published by:** CEUR Workshop Proceedings

### Program Committee

Andrés Montoyo Guijarro	Universidad de Alicante
Paloma Moreda Pozo	Universidad de Alicante

Rafael Muñoz Guillena	Universidad de Alicante
Estela Saquete Boro	Universidad de Alicante
José Manuel Perea Ortega	Universidad de Extremadura
Manuel Carlos Díaz Galiano	Universidad de Jaén
Miguel Ángel García Cumbreiras	Universidad de Jaén
Arturo Montejo Ráez	Universidad de Jaén
Miguel Ángel Alonso Pardo	Universidad de La Coruña
José Antonio García Díaz	Universidad de Murcia
Rafael Valencia García	Universidad de Murcia
F. Javier Ortega	Universidad de Sevilla
Emilio Sanchís Arnal	Universidad Politécnica de Valencia
Víctor Fresno	UNED
Koldo Gojenola	UPV/EHU
German Rigau	UPV/EHU

## Acknowledgements

These proceedings have been partially supported by projects with reference 2022/TL22/00215337, 2022/TL22/00215336, 2022/TL22/00215335 and 2022/TL22/00215334 funded by Ministerio de Asuntos Económicos y Transformación Digital and Plan de Recuperación, Transformación y Resiliencia - Funded by the European Union - NextGenerationEU.



IMPULSO DE LAS LENGUAS  
EN LA INTELIGENCIA ARTIFICIAL



red.es



Financiado por la Unión Europea  
NextGenerationEU

## CEUR Workshop Proceedings

Proceedings of the Doctoral Symposium on Natural Language Processing from the  
Proyecto ILENIA (PLN-DS-2023)

### Preamble

The Spanish Society for Natural Language Processing has organized the 6th edition of the Doctoral Symposium on Natural Language Processing held in Jaén on September 28, 2023 as part of the [XXXIX International Conference of the Spanish Society for Natural Language Processing \(SEPLN 2023\)](#).

The aim of the Doctoral Symposium is to promote scientific vocations in the field of Language Technologies and Natural Language Processing (NLP). To this end, it organizes a meeting point where PhD students in the area of NLP can present their work. Moreover, they receive constructive feedback and guidance from experienced researchers in their area of work.

In the 2023 edition, 14 PhD students participated. All participants submitted a paper describing their proposals, all of them being accepted after review by two members of the program committee and by the organizing committee.

December 2023  
The editors