

# Ikerkuntza

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Proiektuak eta kontratuak

**Tesiak**

1. *Application of singing synthesis techniques to bertsolaritza*

**Xabier Sarasola Aramendia**

Zuzendaria: Eva Navas Cordon

2. *Medidas de distância entre línguas baseadas em corpus*

**José Ramom Pichel Campos**

Zuzendaria: Iñaki Alegria Loinaz and Pablo Gamallo Otero

3. *Itzulpen automatiko gainbegiratu gabea*

**Mikel Artetxe Zurutuza**

Zuzendaria: Eneko Agirre Bengoa and Gorka Labaka Intxauspe

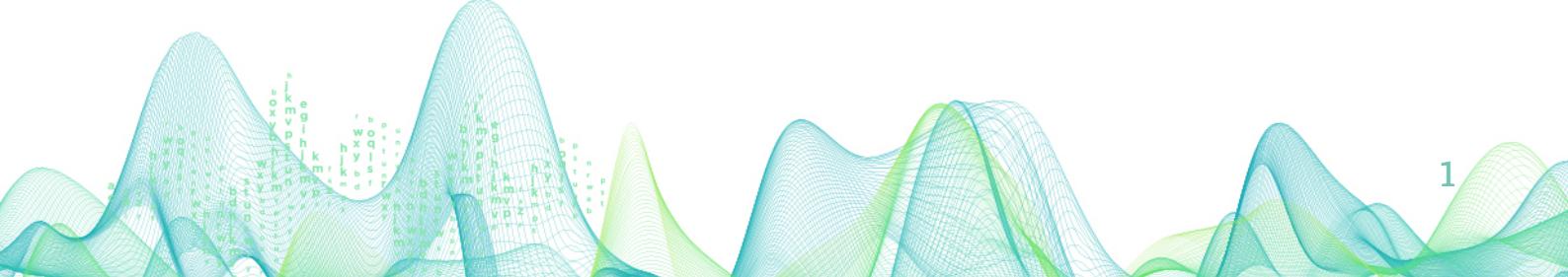
**Argitalpenak**

## ALDIZKARIAK

1. Abel Camacho, Mikel Iruskieta, A. Latatu, P. Lonbide

*UEUren Online ikaskuntzarako eredu pedagogikoaren sorrera eta garapena*

UZTARO 118, 5-38



2. Itziar Aduriz, Jose Mari Arriola

*Testu-corpuseen informazio morfosintaktikoaren etiketatze automatikoa hizkuntz ezagutzan oinarrituz: zenbait arazo, hainbat erronka*

Fontes Linguae Vasconum 50 urte. Ekarpen berriak euskararen ikerketari / Nuevas aportaciones al estudio de la lengua vasca

3. Mikel Iruskieta, Amaia Arroyo-Sagasta, Abel Camacho, Montse Maritxalar

*Teknologia, testuinguru digitala eta konpetentzia digitalak hezkuntzan*

Euskonews 748. ISSN: 1139-3629

4. Ainara Estarrona, Izaskun Etxeberria, Ricardo Etxepare, Manuel Padilla-Moyano, Ander Soraluze

*Sintaktikoki etiketatutako euskarazko corpus historikoa eraikitzen*

Fontes Linguae Vasconum 50 urte. Ekarpen berriak euskararen ikerketari. Nuevas aportaciones al estudio de la lengua vasca

5. Rebecka Weegar, Alicia Pérez, Arantza Casillas, Maite Oronoz

*Recent advances in Swedish and Spanish medical entity recognition in clinical texts using deep neural approaches*

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6. Garazi Hormaeche, Mikel Iruskieta

*Parekoen behaketarekin komunikazio-gaitasuna ebaluatzen: zer dute nahiago ikasleek, errubrika tradizionala ala bideo-behaketa*

e-Hizpide 96

7. Sara Santiso, Alicia Pérez, Arantza Casillas, Maite Oronoz

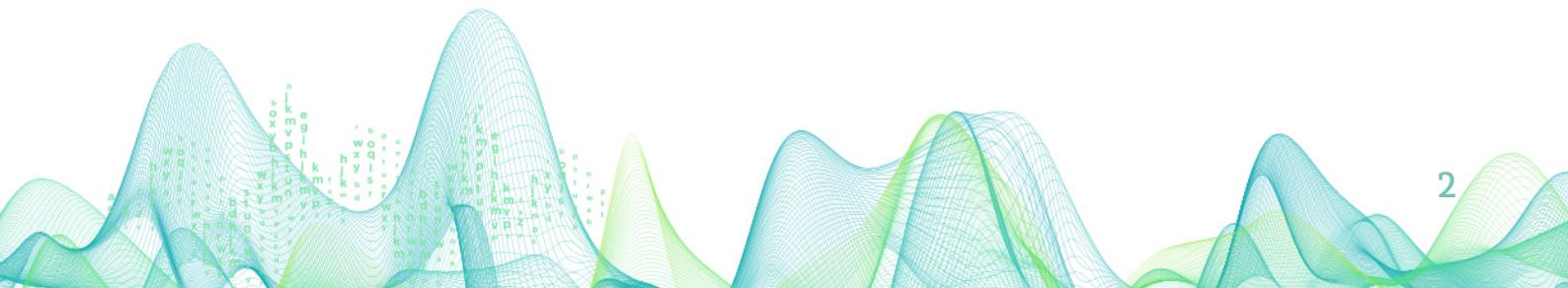
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*Morfeus+: Word Parsing in Basque beyond Morphological Segmentation*

WORD STRUCTURE 13.3, 283-315



9. Pablo Gamallo José Ramom Pichel, Iñaki Alegria

*Measuring Language Distance of Isolated European Languages*

MDPI Information 2020, 11(4), 181

10. Uxoa Inurrieta, Itziar Aduriz, Arantza Díaz de Ilarraz, Gorka Labaka, Kepa Sarasola

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11. Uxoa Iñurrieta

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12. Jose Mari Arriola, Josu Goikoetxea, Mikel Iruskieta

*Hizkuntza-teknologiak hizkuntzen ikas-irakaskuntzan: zenbat aukera, hainbat erronka*

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13. Alberto Blanco, Alicia Pérez, Arantza Casillas

*Extreme multi-label ICD classification: sensitivity to hospital service and time*

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14. Alberto Blanco, Alicia Pérez, Arantza Casillas, Daniel Cobos

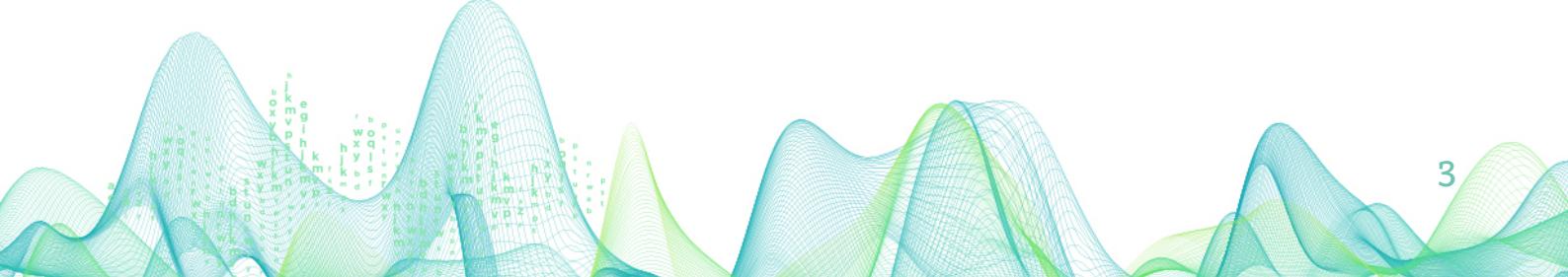
*Extracting Cause of Death from Verbal Autopsy with Deep Learning interpretable methods*

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15. Begoña Altuna, María Jesús Aranzabe, Arantza Díaz de Ilarraz

*EusTimeML: A mark-up language for temporal information in Basque*

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16. Mikel Artetxe, Gorka Labaka, Noe Casas, Eneko Agirre

*Do all roads lead to Rome? Understanding the role of initialization in iterative back-translation*

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17. José Ramom Pichel, Pablo Gamallo, Marco Neves, Iñaki Alegria

*Distância diacrónica automática entre variantes diatópicas do português e do español*

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18. Eneko Agirre

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19. Naiara Pérez, Pablo Accuosto, Àlex Bravo, Montse Cuadros, Eva Martínez-Garcia, Horacio Saggion, German Rigau

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20. Gorka Azkune, Aitor Almeida, Eneko Agirre

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Neurocomputing

21. Arantxa Otegi, Aitor Soroa, Eneko Agirre, Jon Ander Campos

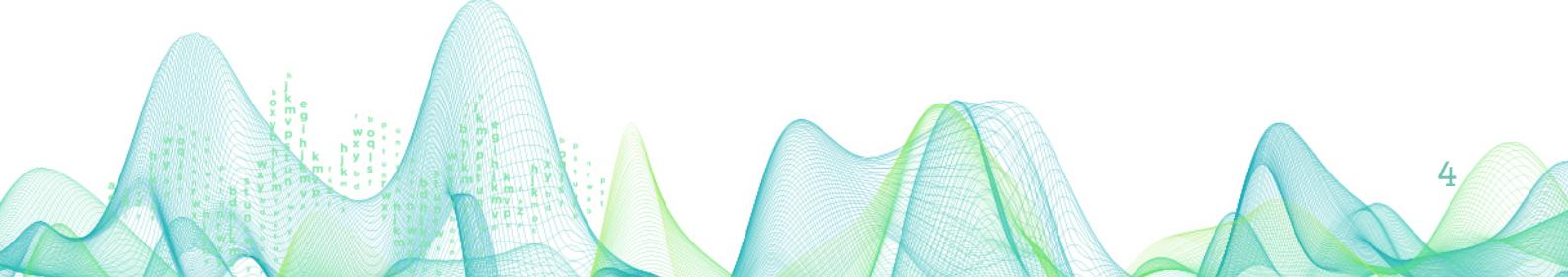
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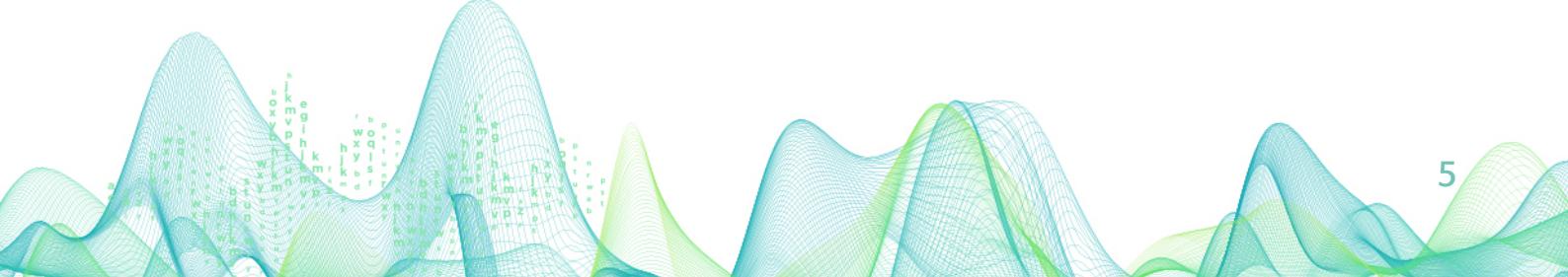
22. Nora Aranberri

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23. Alberto Blanco, Olatz Perez de Viñaspre, Alicia Pérez, Arantza Casillas  
*Boosting ICD multi-label classification of health records with contextual embeddings and label-granularity*  
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24. Kepa Bengoetxea, Itziar Gonzalez-Dios, Amaia Agirregoitia  
*AzterTest: Open source linguistic and stylistic analysis tool*  
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25. Begoña Altuna  
*Análisis de estructuras temporales en euskera y creación de un corpus*  
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26. Sara Santiso  
*Adverse Drug Reaction extraction on Electronic Health Records written in Spanish*  
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27. Jose R. Pichel, Pablo Gamallo, Iñaki Alegria, Marco Neves  
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*Information Systems*
29. Amaia Agirregoitia Martinez, Kepa Bengoetxea Kortazar, Itziar Gonzalez-Dios  
*Are CLIL texts too complicated? A computational analysis of their linguistic characteristics*  
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## AKTAK

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### 3. Ivana Kvapilíková, Mikel Artetxe, Gorka Labaka, Eneko Agirre, Ondřej Bojar

*Unsupervised Multilingual Sentence Embeddings for Parallel Corpus Mining*

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### 4. Mikel Artetxe, Gorka Labaka, Eneko Agirre

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### 5. Javier Álvez, Itziar Gonzalez-Dios, German Rigau

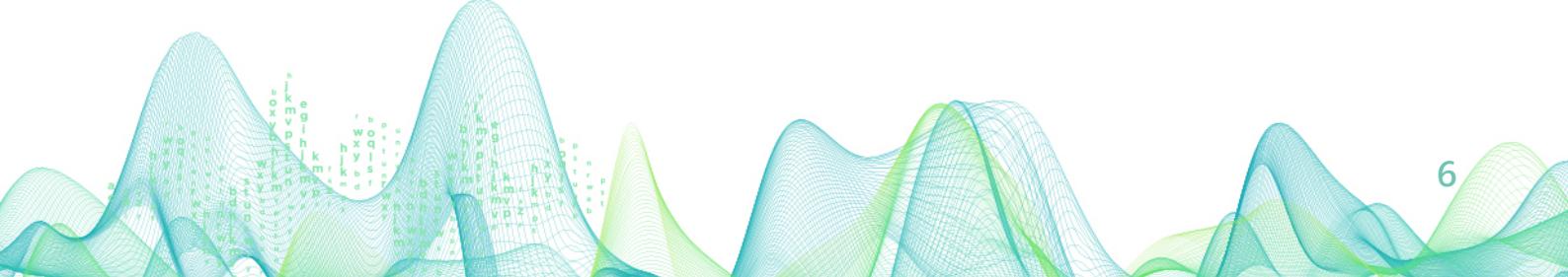
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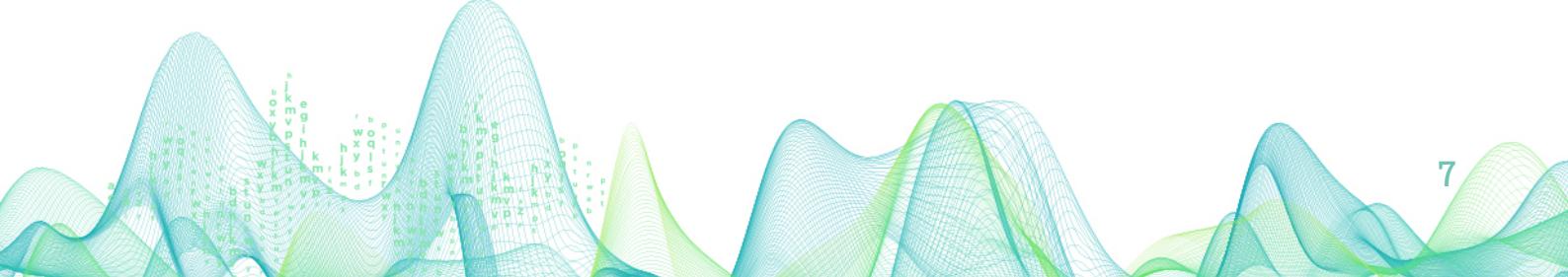
### 6. Bernardo Magnini, Begoña Altuna, Alberto Lavelli, Manuela Speranza, Roberto Zanoli

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7. Jan Deriu, Don Tuggener, Pius von Däniken, Jon Ander Campos, Alvaro Rodrigo, Thiziri Belkacem, Aitor Soroa, Eneko Agirre, Mark Cieliebak  
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9. Xabier Soto, Dimitar Shterionov, Alberto Poncelas, Andy Way  
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10. C. Pradel, D. Sileo, A. Rodrigo, A. Peñas, E. Agirre  
***Question Answering when Knowledge Bases are Incomplete?***  
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11. Rodrigo Agerri, German Rigau  
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12. Thierry Declerck, Itziar Gonzalez-Dios, German Rigau (editors)  
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13. Mikel Artetxe, Sebastian Ruder, Dani Yogatama  
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14. Elena Zotova, Rodrigo Agerri, Manuel Nuñez and German Rigau

**Multilingual Stance Detection in Tweets: The Catalonia Independence Corpus**

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15. Iker de la Iglesia, Mikel Martinez-Puente, Alexander Platas, Iria San Miguel, Aitziber Atutxa, Koldo Gojenola

**MEDIA team at the CLEF-2020 MultilingualInformation Extraction Task**

Working Notes of CLEF 2020 - Conference and Labs of the Evaluation Forum Thessaloniki, Greece, September 22-25, 2020.

16. Andrea Horbach, Itziar Aldabe, Marie Bexte, Oier Lopez de Lacalle and Montse Maritxalar

**Linguistic Appropriateness and Pedagogic Usefulness of Reading Comprehension Questions**

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17. Itziar Aldabe, Josu Aztiria, Francho Beltrán, Myriam Bras, Klara Ceberio, Itziar Cortes, Jean-Baptiste Coyos, Benaset Dazeas, Louise Esher, Gorka Labaka, Igor Leturia, Kepa Sarasola, Aure Séguier, Jean Sibille

**LINGUATEC: Development of cross-border cooperation and knowledge transfer in language technologies**

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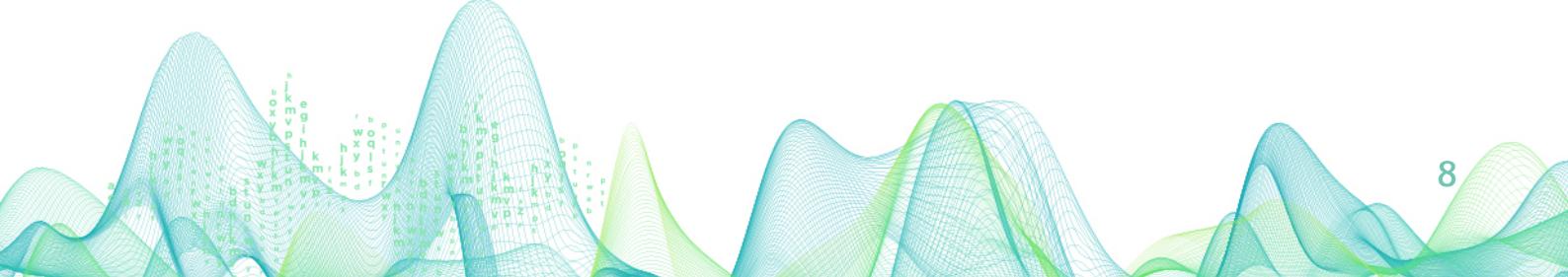
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19. Rodrigo Agerri, German Rigau

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1st Workshop on Tools and Resources to Empower People with READING Difficulties (READI2020),  
pages 63–69. ISBN: 979-10-95546-44-3

21. Unai Atutxa, Mikel Iruskieta, Olatz Ansa

*Laburpena eskolan: estrakzioaren eta abstrakzioaren arteko zubia eskolan*

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Proceedings of the Fifth Conference on Machine Translation, pp: 873–878.

23. Jon Ander Campos, Kyunghyun Cho, Arantxa Otegi, Aitor Soroa, Eneko Agirre, Gorka Azkune

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Proceedings of the 28th International Conference on Computational Linguistics (COLING), pages 2561–2571. Outstanding Paper (Top 1%).

24. Sergio Santana, Alicia Pérez, Arantza Casillas

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*Findings of the WMT 2020 Biomedical Translation Shared Task: Basque, Italian and Russian as New Additional Languages*

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27. Jon Alkorta, Itziar Gonzalez-Dios

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

Proceedings of the Workshop on Multimodal Wordnets (MMWN-2020), pages 20–24. ISBN: 978-10-95546-41-2

28. Oier Lopez de Lacalle, Ander Salaberria, Aitor Soroa, Gorka Azkune, Eneko Agirre

*Evaluating Multimodal Representations on Visual Semantic Textual Similarity*

Proceedings of the Twenty-third European Conference on Artificial Intelligence, ECAI 2020, June 8–12, 2020, Santiago Compostela, Spain

29. Jon Ander Campos, Arantxa Otegi, Aitor Soroa, Jan Deriu, Mark Cieliebak, Eneko Agirre.

*DoQA - Accessing Domain-Specific FAQs via Conversational QA*

Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, pages 7302–7314

30. Oscar Sainz, Oier Lopez de Lacalle, Itziar Aldabe, Montse Maritxalar

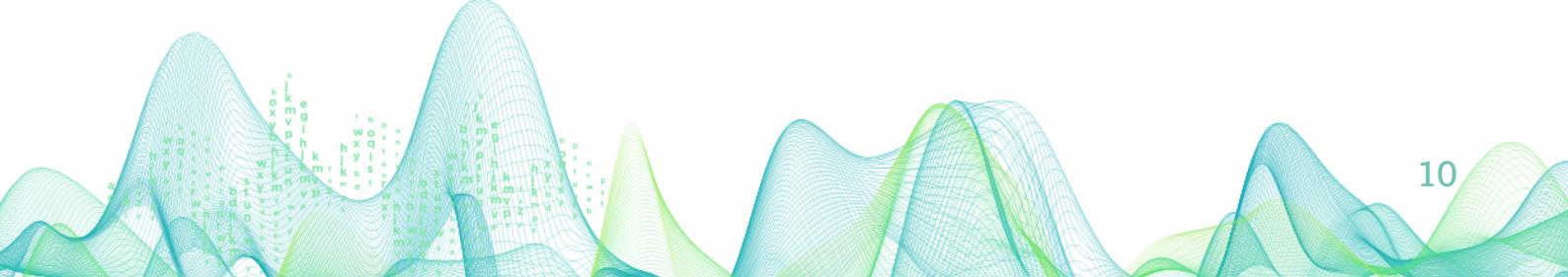
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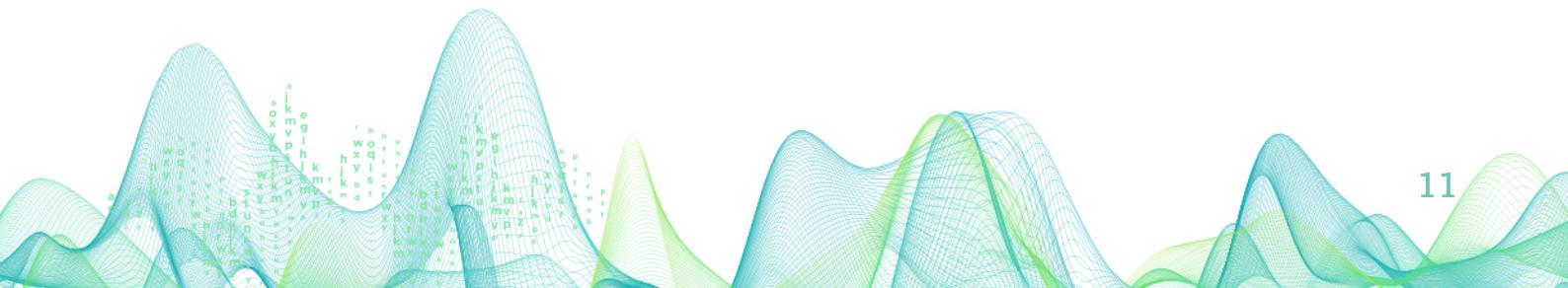
31. Piroska Lendvai , Sándor Darányi, Christian Geng, Moniek Kuijpers, Oier Lopez de Lacalle , Jean-Christophe Menzonides, Simone Rebora, Uwe Reichel

*Detection of Reading Absorption in User-Generated Book Reviews: Resources Creation and Evaluation*

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32. Ainara Estarrona, Izaskun Etxeberria, Ricardo Etxepare, Manuel Padilla-Moyano, Ander Soraluze  
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*Data statement of the Corpus of Basque Simplified Texts*  
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34. Arantxa Otegi, Aitor Agirre, Jon Ander Campos, Aitor Soroa, Eneko Agirre  
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35. Arantxa Otegi, Jon Ander Campos, Gorka Azkune, Aitor Soroa, Eneko Agirre  
*Automatic Evaluation vs. User Preference in Neural Textual Question Answering over COVID-19 Scientific Literature*  
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36. Alberto Blanco, Alicia Pérez, Arantza Casillas  
*Automatic Classification of Medical Records with Multi-label Classifiers and Similarity Match Coders*  
 CEUR Workshop Proceedings, Vol 2696 - Working Notes of CLEF 2020 - Conference and Labs of the Evaluation Forum
37. Jan Deriu, Katsiaryna Mlynchyk, Philippe Schläpfer, Alvaro Rodrigo, Dirk von Grünigen, Nicolas Kaiser, Kurt Stockinger, Eneko Agirre, Mark Cieliebak  
*A Methodology for Creating Question Answering Corpora Using Inverse Data Annotation*  
 Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, pages 897-911.
38. Mikel Artetxe, Sebastian Ruder, Dani Yogatama, Gorka Labaka, Eneko Agirre  
*A Call for More Rigor in Unsupervised Cross-lingual Learning*  
 Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics



39. Salvador Lima, Naiara Pérez, Montse Cuadros, German Rigau

*NUBES: A Corpus of Negation and Uncertainty in Spanish Clinical Texts*

Proceedings of the 12th Language Resources and Evaluation Conference (LREC'20). Marseille, France. 2020.

40. María Espinosa, Rodrigo Agerri, Roberto Centeno, Alvaro Rodrigo

*DeepReading@SardiStance:Combining Textual, Social and Emotional Features.*

Proceedings of the Seventh Evaluation Campaign of Natural Language Processing and Speech Tools for Italian (EVALITA 2020). Winners of the SardiStance@Evalita 2020 shared task

41. Eneko Agirre, Marianna Apidianaki, Ivan Vulić (Editors)

*Proceedings of Deep Learning Inside Out (DeeLIO): The First Workshop on Knowledge Extraction and Integration for Deep Learning Architectures*

In conjunction with EMNLP. Association for Computational Linguistics

42. Itziar Gonzalez-Dios, Javier Álvez, German Rigau

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

Proceedings of the Workshop on Multimodal Wordnets (MMWN-2020), pages 1–6. ISBN: 979-10-95546-41-2

## LIBURU KAPITULUAK

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*Applying the Closed World Assumption to SUMO-based FOL Ontologies for Effective Commonsense Reasoning*

Frontiers in Artificial Intelligence and Applications. Giuseppe De Giacomo, Alejandro Catala, Bistra Dilkina, Michela Milano, Senén Barro, Alberto Bugarín, Jérôme Lang (eds.). Volume 325: ECAI 2020. Pages 585 - 592. IOS Press Ebooks

## Proiektuak eta kontratuak

Mota	Deialdia	Proiektua	IP	Hasiera	Bukaera	Zenbatekoa	2020
EU	Acciones de Programación Conjunta Internacional (MINECO) 2017	(APCI-MINECO17/01) Aprendiendo a Interactuar con personas mediante interaccion continuada con personas	Agirre Bengoa, Eneko	01/12/2017	31/12/2020	105.000	34.054
EU	Interreg V17/06	(EFA_227/16) LINGUATEC	Sarasola Gabiola, Kepa	01/01/2018	01/12/2020	159.750	48.813
EU	INT-NOCORE 2019	GOOGLE-Better Extraction from Text Towards Enhanced Retrieval	Agirre Bengoa, Eneko	01/05/2019	30/04/2020	79.654,00	26.551
EU	INT-NOCORE 2019	BETTER-Better Extraction from Text Towards Enhanced Retrieval	Agirre Bengoa, Eneko	01/09/2019	31/03/2023	363.590,00	101.467
EU	INT-NOCORE 2020	GOOGLE 2020	Agirre Bengoa, Eneko	16/03/2020	15/03/2021	70.000	52.500
EU	INT-NOCORE 2020	INT NOCORE20/02	Agirre Bengoa, Eneko	13/01/2020	31/07/2020	38.948	38.948
EU	INT-NOCORE 2020	INT NOCORE20/01	Labaka Intxauspe, Gorka	01/01/2020	31/12/2021	125.832	62.916
EU	European Comission - Cost Action	enetCollect: European Network for Combining Language Learning with Crowdsourcing Techniques	Agerri Rodrigo, Maritxalar Montserrat	07/03/2017	06/03/2021	0	0
EU	Linköping University, Sweden	TAILOR: Trustworthy AI - Integrating Learning, Optimisation and Reasoning	Rigau Claramunt, German	01/09/2020	30/08/2023	0	0
EU	H2020-MSCA-ITN 2014	Enriched communication across the lifespan	COOKE, MARTIN	2016	2020	684.934	128.038
ES	MINECOG 2017 Generación Conocimiento Explora	(MINECOG17/01) Traducción Automática Neuronal no Supervisada: un nuevo	Agirre Bengoa, Eneko	01/01/2018	31/12/2020	48.400	0
ES	MINECOG 2018 Generación Conocimiento Proyectos	(MINECOG18/P36)DOMINO	Sarasola Gabiola, Kepa	01/01/2019	31/12/2021	81.070	27.023
ES	MINECOR 2018 Retos Proyectos	(MINECOR18/P75) DeepReading	Rigau Claramunt, German	01/01/2019	31/12/2021	146.894	48.965

Mota	Deialdia	Proiektua	IP	Hasiera	Bukaera	Zenbatekoa	2020
ES	MINECOG 2018 Generación Conocimiento Acciones	(MINECOG18/A07) Red estratégica para la promoción de las infraestructuras de tecnologías del lenguaje en eHumanidades y ciencias sociales	Rigau Claramunt, German	01/07/2019	31/12/2021	23.200	9.280
ES	MINECOR 2018 Retos Jóvenes Investigadores	MINECOR18/J03	Estarrona Ibarloza, Ainara	01/01/2019	31/12/2021	140.360	46.787
ES	Red Española de Supercomputación (RES)	Cross-language Natural Language Processing Models	Agirre Bengoa, Eneko	20/02/2020	20/06/2020	0	0
ES	Fundaciones Privadas 2018	FP18/77 BBVA	Agirre Bengoa, Eneko	30/04/2019	30/04/2021	71.500	34.320
ES	Fundaciones Privadas 2019	FP20/64 SUPERAR COVID	Agirre Bengoa, Eneko	01/09/2020	30/08/2021	46.500	15.500
Eus	Elkartek 2019	(ELKARTEK19/77) Deep Learning aplicado al Procesamiento del Lenguaje Natural como apoyo a los ámbitos del RIS3	Soroa Echave, Aitor	01/01/2019	31/12/2020	42.547	21.274
Eus	Elkartek 2020	ELKARTEK20/54 Deep Text	Soroa Echave, Aitor	01/01/2020	31/12/2021	153.496	76.748
Eus	Elkartek 2020	ELKARTEK20/49 TANDO	Sarasola Gabiola, Kepa	01/01/2020	31/12/2021	79.208	39.604
Eus	Grupos Consolidados 2018 (Gv)	GIC18/37	Agirre Bengoa, Eneko	01/01/2019	31/12/2021	282.900	94.300
Eus	Movilidad de Investigadores Gv 2020	MOVGV20/01	Agirre Bengoa, Eneko	20/08/2020	20/12/2020	12.189	12.189
Eus	Proy. Diputación Gipuzkoa 2020	DG20/01	Agirre Bengoa, Eneko	01/01/2020	30/09/2021	75.530	43.160
Eus	Proyectos Estratégicos 2018	(PES18/28) Arkitektura aurreratuetan oinarritutako testuetako prozesamendu-automatikoa	Labaka Intxauspe, Gorka	01/09/2018	31/08/2022	51.423	12.856
Eus	Proyectos Estratégicos 2018	(PES18/88)	Artola Zubillaga, Xabier	20/12/2018	19/12/2022	422	103
Eus	Proyectos Estratégicos 2020	(PES20/04)	Perez De Viñaspre, Olatz	03/02/2020	02/02/2024	76.254	17.118
Eus	Ayuda Depart UPV/EHU 2020	DEP20/06	Arregi Uriarte, Olatz	01/01/2020	31/12/2022	13.805	4.602
Eus	Ayuda Depart UPV/EHU 2020	DEP20/43	Soroa Echave, Aitor	01/01/2020	31/12/2022	17.140	5.713
Eus	Infraestructura 2020	INF20/50	Agirre Bengoa, Eneko	01/01/2020	31/12/2020	32.787	32.787

Mota	Deialdia	Proiekta	IP	Hasiera	Bukaera	Zenbatekoa	2020
Eus	UPV/EHU – COLAB19/19	Tools for the analysis of parliamentary discourses: polarization, subjectivity and affectivity in the post-truth era	Agerri Gascón, Rodrigo	02/03/2020	01/03/2022	12.200	5.083
Eus	PROYECTOS ESTRATÉGICOS 2020	Aprendizaje profundo aplicado a las tecnologías de voz y audio	Saratxaga Couceiro, Ibon	2020	2024	105.495	2.199
Eus	MINECOR 2019 Retos Proyectos (2019)	Restauración de voz con Interfaces EMG de Habla Silenciosa	Hernáez Rioja, Inmaculada	2020	2023	139.876	13.988
Eus	PROYECTOS ESTRATÉGICOS 2018	Desarrollo de Sistemas de Verificación de la Lengua y del Locutor	Varona Fernández, Amparo	2018	2022	11.537	0
Eus	Proyectos Estratégicos 2017	Tecnologías de voz	Navas Cordón, Eva	2017	2021	106.653	25.915
Eus	Proyectos Estratégicos 2017	Consolidación de Recursos, Aplicaciones y Técnicas de Alineamiento de Voz y Texto	Bordel García, German	2017	2021	52.248	13.071
Eus	Proyectos de Investigacion Basica y/o Aplicada 2018	Aprendizaje profundo aplicado a voces patológicas	Hernáez Rioja, Inmaculada	2018	2021	50.000	23.357
Eus	PROYECTOS UNIVERSIDADSOCIEDAD 2018	Voz infantil sintética para comunicación aumentativa y alternativa	Navas Cordón, Eva	2018	2020	7.200	1.924
Eus	ELKARTEK 2019	Traducción Automática Neuronal del Habla	Navas Cordón, Eva	01/04/2019	31/12/2020	58.296	34.317
Eus	ELKARTEK 2019	Deep Learning aplicado al Procesamiento del Lenguaje Natural como apoyo a los ámbitos del RIS3	Hernáez Rioja, Inmaculada	2019	2020	9.002	4.501
Eus	MINECOR 2019 Retos Proyectos	Metología no supervisadas para el aprovechamiento de datos de dominio público en reconocimiento automático del habla: de la abundancia a la escasez de recursos	Varona Fernández, Amparo	2020	2023	33.638	3.364
Cont	Hazitek 2019	Asesoría científica en la construcción de un asistente personal	Agirre Bengoa, Eneko	01/02/2019	31/01/2020	55.882	51.225
Cont	Ikerlan S.Coop.	Asesoría sobre sistemas de diálogo voice2text	Soroa Echave, Aitor	01/12/2020	31/12/2020	9.882	9.882

Mota	Deialdia	Proiektua	IP	Hasiera	Bukaera	Zenbatekoa	2020
Cont	Eleka Ingeniaritza Linguistikoa	MultiNMT: Traducción automática neuronal Multidireccional orientada al cliente	Labaka Intxauspe, Gorka	01/01/2020	31/12/2020	9.000	9.000
Cont	Hispavista Labs Aie	PRIDAIAS: Hacia la PrIvacidad de los Datos en Aplicaciones de Inteligencia Artificial para la Salud	Arregui Uriarte, Olatz	01/12/2020	01/04/2022	55.239	3.452
Cont	Nymiz Software Company, S.L.	Asesoría científica en el área del procesamiento del lenguaje natural en el ámbito de la anonimización	Rigau Claramunt, German	01/06/2020	30/11/2020	16.000	16.000
Cont	Euskaltzaindia-Real Academia de la Lengua Vasca	Observatorio lexical del euskera XII	Ezeiza Ramos, Nerea	26/11/2020	26/03/2021	48.156	4.682
Cont	Elhuyar Fundazioa	LICENCIA AHOLAB ELHUYAR AoTSS	Hernáez Rioja, Inmaculada	2018	2038	0	0
Cont	Parlamento Vasco / Eusko Legebiltzarra	Alineamiento automático de voz y texto para subtítulado de videos	Bordel García, German	2020	2021	2.282	176
Cont	Parlamento Vasco / Eusko Legebiltzarra	Alineamiento automático de voz y texto para subtítulado de videos	Bordel García, German	2019	2020	6.345	2.338
Cont	DIDAKTIKER, S.A.	Licencia. Proyecto de cooperación cExtractor, Plataforma de extracción automática de conocimiento a partir de fuentes de información estructuradas	Hernáez Rioja, Inmaculada	2010	2020	0	0
Cont	Datik Información Inteligente, S.L.	Síntesis de voz en sistemas embarcados en la flota de autobuses de Vitoria/Gasteiz	Sanchez de la Fuente, Jon	2020	2020	8.050	8.050
Cont	Mercedez-Benz España, S.A.	Transferencia y soporte a la puesta en marcha de un sistema automático de detección y clasificación de eventos sonoros basado en redes neuronales	Saratxaga Couceiro, Ibon	2020	2020	6.500	6.500
Otro	UPV/EHU	35th International Conference of the Spanish Society for Natural Language Processing, SEPLN 2019	Hernáez Rioja, Inmaculada	2020	2020	3.750	3.750