

# Ikerkuntza

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## 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**  
Zuzendariak: Iñaki Alegria Loinaz and Pablo Gamallo Otero
3. *Itzulpen automatiko gainbegiratu gabea*  
**Mikel Artetxe Zurutuza**  
Zuzendariak: Eneko Agirre Bengoa and Gorka Labaka Intxauspe

## Argitalpenak

### ALDIZKARIAK

1. Abel Camacho, Mikel Iruskietta, A. Latatu, P. Lonbide  
*UEUren Online ikaskuntzarako eredu pedagogikoaren sorrera eta garapena*  
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2. Itziar Aduriz, Jose Mari Arriola  
*Testu-corpusen 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 Iruskietza, Amaia Arroyo-Sagasta, Abel Camacho, Montse Maritxalar  
*Teknologia, testuinguru digitala eta konpetentzia digitalak hezkuntzan*  
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4. Ainara Estarrona, Izaskun Etxeberria, Ricardo Etxepare, Manuel Padilla-Moyano, Ander Sorraluze  
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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 Hormaetxe, Mikel Iruskietza  
*Parekoen behaketarekin komunikazio-gaitasuna ebaluatzen: zer dute nahiago ikasleek, errubrika tradizionala ala bideo-behaketa*  
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7. Sara Santiso, Alicia Pérez, Arantza Casillas, Maite Oronoz  
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8. Itziar Aduriz, Jose Mari Arriola, Xabier Artola, Zuhaitz Beloki, Nerea Ezeiza, Koldo Gojenola  
*Morfeus+: Word Parsing in Basque beyond Morphological Segmentation*  
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9. Pablo Gamallo José Ramom Pichel, Iñaki Alegria  
*Measuring Language Distance of Isolated European Languages*  
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10. Uxo Inurrieta, Itziar Aduriz, Arantza Díaz de Ilarraza, Gorka Labaka, Kepa Sarasola  
*Learning about phraseology from corpora: A linguistically motivated approach for Multiword Expression identification*  
PLoS ONE 15(8)
  
11. Uxo Inurrieta  
*Identification and translation of verb+noun multiword expressions: a Spanish-Basque study*  
Procesamiento del Lenguaje Natural, 64, pp. 123-126.
  
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 Ilarraza  
*EusTimeML: A mark-up language for temporal information in Basque*  
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16. Mikel Artetxe, Gorka Labaka, Noe Casas, Eneko Agirre  
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17. José Ramom Pichel, Pablo Gamallo, Marco Neves, Iñaki Alegria  
*Distância diacrónica automática entre variantes diatópicas do português e do espanhol*  
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18. Eneko Agirre  
*Cross-Lingual Word Embeddings (Book Review)*  
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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  
*Cross-environment activity recognition using word embeddings for sensor and activity representation*  
Neurocomputing
21. Arantxa Otegi, Aitor Soroa, Eneko Agirre, Jon Ander Campos  
*Cómo gestionar la sobrecarga de información científica sobre COVID-19*  
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22. Nora Aranberri  
*Can translationese features help users select an MT system for post-editing?*  
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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 Aguirregoitia  
*AzterTest: Open source linguistic and stylistic analysis tool*  
Procesamiento del Lenguaje Natural, 64, 61-68
25. Begoña Altuna  
*Análisis de estructuras temporales en euskera y creación de un corpus*  
Procesamiento del Lenguaje Natural 64
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  
*A Methodology to Measure the Diachronic Language Distance between Three Languages Based on Perplexity*  
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28. Juan J. Lastra-Díaz, Josu Goikoetxea, Mohamed Ali Hadj Taieb, Ana Garcia-Serrano, Mohamed Ben Aouicha, Eneko Agirre, David Sánchez  
*A large reproducible benchmark of ontology-based methods and word embeddings for word similarity*  
Information Systems
29. Amaia Aguirregoitia Martinez, Kepa Bengoetxea Kortazar, Itziar Gonzalez-Dios  
*Are CLIL texts too complicated? A computational analysis of their linguistic characteristics*  
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## AKTAK

1. Nora Aranberri  
*With or without you? Effects of using machine translation to write flash fiction in the foreign language*  
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2. Adrián Nuñez-Marcos, Gorka Azkune, Eneko Agirre, Diego López-de-Ipiña, Ignacio Arganda-Carreras  
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3. Ivana Kvapilíková, Mikel Artetxe, Gorka Labaka, Eneko Agirre, Ondřej Bojar  
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4. Mikel Artetxe, Gorka Labaka, Eneko Agirre  
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6. Bernardo Magnini, Begoña Altuna, Alberto Lavelli, Manuela Speranza, Roberto Zanolli  
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10. C. Pradel, D. Sileo, A. Rodrigo, A. Peñas, E. Agirre  
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11. Rodrigo Agerri, German Rigau  
*Projecting Heterogeneous Annotations for Named Entity Recognition*  
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12. Thierry Declerck, Itziar Gonzalez-Dios, German Rigau (editors)  
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13. Mikel Artetxe, Sebastian Ruder, Dani Yogatama  
*On the cross-lingual transferability of monolingual representations*  
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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 Multilingual Information Extraction Task*  
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16. Andrea Horbach, Itziar Aldabe, Marie Bexte, Oier Lopez de Lacalle and Montse Maritxalar  
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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  
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18. Kepa Sarasola, Iñaki Alegria, Olatz Perez de Viñaspre  
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19. Rodrigo Agerri, German Rigau  
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20. Itziar Gonzalez-Dios, Kepa Bengoetxea, Amaia Aguirregoitia  
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21. Unai Atutxa, Mikel Iruskieta, Olatz Ansa  
*Laburpena eskolan: estrakzioaren eta abstrakzioaren arteko zubia eskolan*  
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22. Xabier Soto, Olatz Perez-de-Viñaspre, Gorka Labaka, Maite Oronoz  
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23. Jon Ander Campos, Kyunghyun Cho, Arantxa Otegi, Aitor Soroa, Eneko Agirre, Gorka Azkune  
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2561–2571. Outstanding Paper (Top 1%).
24. Sergio Santana, Alicia Pérez, Arantza Casillas  
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25. Rodrigo Agerri, Iñaki San Vicente, Jon Ander Campos, Ander Barrena, Xabier Saralegi, Aitor Soroa,  
Eneko Agirre  
*Give your Text Representation Models some Love: the Case for Basque*  
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26. Rachel Bawden, Giorgio Maria Di Nunzio, Cristian Grozea, Inigo Jauregi Unanue, Antonio Jimeno Yepes, Nancy Mah, David Martinez, Aurélie Névéol, Mariana Neves, Maite Oronoz, Olatz Perez-de-Viñaspre, Massimo Piccardi, Roland Roller, Amy Siu, Philippe Thomas, Federica Vezzani, Maika Vicente Navarro, Dina Wiemann, Lana Yeganova  
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28. Oier Lopez de Lacalle, Ander Salaberria, Aitor Soroa, Gorka Azkune, Eneko Agirre  
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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 Mensonides, Simone Reborá, Uwe Reichel  
*Detection of Reading Absorption in User-Generated Book Reviews: Resources Creation and Evaluation*  
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32. Ainara Estarrona, Izaskun Etzeberria, Ricardo Etxepare, Manuel Padilla-Moyano, Ander Soraluze  
*Dealing with dialectal variation in the construction of the Basque historical corpus*  
Proceedings of the 7th Workshop on NLP for similar languages, varieties and dialects (VarDial2020 at COLING 2020).
33. Itziar Gonzalez-Dios.  
*Data statement of the Corpus of Basque Simplified Texts*  
Data Statements workshop
34. Arantxa Otegi, Aitor Agirre, Jon Ander Campos, Aitor Soroa, Eneko Agirre  
*Conversational Question Answering in Low Resource Scenarios: A Dataset and Case Study for Basque*  
Proceedings of The 12th Language Resources and Evaluation Conference, pp. 429–435. European Language Resources Association. ISBN: 979-10-95546-34-4
35. Arantxa Otegi, Jon Ander Campos, Gorka Azkune, Aitor Soroa, Eneko Agirre  
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36. Alberto Blanco, Alicia Pérez, Arantza Casillas  
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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  
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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)  
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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

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1. Javier Álvez, Itziar Gonzalez-Dios, German Rigau  
*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 interacción 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 Commission - Cost Action	enetCollect: European Network for Combining Language Learning with Crowdsourcing Techniques	Agerrri Rodrigo , Maritzalar 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 SUPERA 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-automatitza	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	Proiektua	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	Agerrri 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	Hernández 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 Investigación Básica y/o Aplicada 2018	Aprendizaje profundo aplicado a voces patológicas	Hernández Rioja, Inmaculada	2018	2021	50.000	23.357
Eus	PROYECTOS UNIVERSIDAD SOCIEDAD 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	Hernández Rioja, Inmaculada	2019	2020	9.002	4.501
Eus	MINECOR 2019 Retos Proyectos	Metologías 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	Hispanista 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	Hernández Rioja, Inmaculada	2018	2038	0	0
Cont	Parlamento Vasco / Eusko Legebiltzarra	Alineamiento automático de voz y texto para subtítulo de vídeos	Bordel García, German	2020	2021	2.282	176
Cont	Parlamento Vasco / Eusko Legebiltzarra	Alineamiento automático de voz y texto para subtítulo de vídeos	Bordel García, German	2019	2020	6.345	2.338
Cont	DIDARTIKER, S.A.	Licencia. Proyecto de cooperación cExtractor, Plataforma de extracción automática de conocimiento a partir de fuentes de información estructuradas	Hernández 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	Mercedes-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	Hernández Rioja, Inmaculada	2020	2020	3.750	3.750