



Aitziber Atutxa Salazar

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Aitziber Atutxa Salazar (ORCID 0000-0003-4512-8633) holds a degree in Computer Science (1995, University of Deusto), a double Master's in Theoretical and Computational Linguistics (2000, University of Maryland at College Park) and a PhD in Computer Science (2014, UPV/EHU). She has been awarded with several scholarships, one to carry out studies of interest to the Basque Country at the University of Maryland, and a pre-doctoral scholarship as well. In 2001 she became part of the IXA group (currently HiTZ Center). Her research is included in automatic natural language processing (NLP). She has 1 six-year research period recognized. She has published 8 articles in JCR indexed journals (3 Q1 and 5 Q2), and more than 30 articles in congresses, accumulating almost 900 citations (512 since 2019). Her h-index is 14. She has participated in more than 30 research projects at the regional, national and European levels. Today she develops her research adapting and generating NLP tools applied to the medical domain. In the last 3 years, she has promoted and she is the Hitz Center responsible researcher for an agreement between the Hitz Center and the BioCruces Health Research Institute. She is currently the PI of a Mineco national project and last year she was the PI of a European Commission Tender for the study of inequities in perinatal health data (JRC/IPR/2021/VLVP/2419) and of a Misiones project of the Euskampus Foundation. Aitziber Atutxa has also participated in a contract through public bidding between osakidetza and the HiTZ Center (G/211/20/1/0199/o001/0000/012019). She has collaborated in the development of linguistic tools and resources with companies like Elhuyar and more specifically in the medical domain with IOMED. She is an active member of the scientific community. Currently, member of the board of the Spanish Society for Natural Language Processing (SEPLN), a scientific society that belongs to the SCIE. She has chaired the organizing committee of the congress of the SEPLN in 2020 and 2021. This contribution to the community is also reflected in her role as editor of the magazine of the SEPLN accredited by the FECYT with the seal of quality since 2011 and indexed in the JCR-ESCI. She is also a regular reviewer for other JCR Q1 publications such as Artificial Intelligence in Medicine, Journal of Biomedical Informatics or Knowledge Based Systems, as well as core A congresses such as European ACL, or EMNLP. She is currently co-directing four PhD theses, three in the PhD program in Language Analysis and Processing and another in Medicine and Surgery, Maternal and Child Health, Infertility and Cardio-Respiratory Pathology Group. And she participates in communities like DiverTLes.

Regarding her university activity, she is member of the University of the Basque Country Senate, as well as member of the board of Bilbao Engineering School and coordinator of the departmental section of LSI in that same school.

As teacher, she began working as a collaborating lecturer in the Department of Computer Languages and Systems (LSI) at the Bilbao School of Technical Engineering in 2002. She is currently an associate professor at the Bilbao Engineering School in the LSI



department. Her teaching is related to her research (Decision Support Systems or Artificial Intelligence Techniques). She has also taught in the Erasmus Mundus Master on Language and Communication Technologies. She has supervised multiple TFM and TFGs.

B.1. Breve descripción del Trabajo de Fin de Grado (TFG) y puntuación obtenida

B.2. Breve descripción del Trabajo de Fin de Máster (TFM) y puntuación obtenida



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

1 six-year research period recognized (2003 - 2018)

Cites (Google Scholar): 896

Cites (Google Scholar since 2019): 512

hIndex (Google Scholar) : 14

hIndex (Google Scholar since 2019): 11

i10 (Google Scholar): 18

i10 (Google Scholar) since 2019: 12

1.- 2009. Best paper award in the Conf. of the European Association for Machine Translation

2.- Winners of CLEF2018 ICD10 task

**Aitziber Atutxa Salazar**

Surname(s): Atutxa Salazar
Name: Aitziber
DNI: 30650780Z
Date of birth: 01/11/1972
Gender: Female
Contact province: Biscay
Contact address: Grupo Buenavista n9
Postcode: 48014
Contact country: Spain
Contact aut. region/reg.: Basque Country
Contact city: Bilbao
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Current professional situation

Employing entity: Universidad del País Vasco
Department: Lenguajes y Sistemas Informáticos, Escuela de Ingeniería de Bilbao
Professional category: Profesora Agregada
Start date: 20/12/2002
Type of contract: Permanent employment contract **Dedication regime:** Full time
Primary (UNESCO code): 120304 - Artificial intelligence
Secondary (UNESCO code): 120323 - Programming languages
Tertiary (UNESCO code): 570104 - Computational linguistics
Identify key words: Medical computing

Previous positions and activities

	Employing entity	Professional category	Start date
	Sener Ingeniería y Sistemas, S.A.		20/10/1995

Employing entity: Sener Ingeniería y Sistemas, S.A. **Type of entity:** Business
Start-End date: 20/10/1995 - 20/05/1996



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

1 University degree: Master

Name of qualification: Masters in Computational Linguistics

Degree awarding entity: University of Maryland **Type of entity:** University

Date of qualification: 21/12/2000

2 University degree: Higher degree

Name of qualification: Licenciado en Informática

Degree awarding entity: Universidad de Deusto **Type of entity:** University

Date of qualification: 06/10/1995

Doctorates

Doctorate programme: Doctor en programa oficial de posgrado de Informática

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

Date of degree: 23/07/2014

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French	C1	C1	B2	B2	B1
Basque	C1	C1	C1	C1	C1
English	C1	C1	C1	C1	C1

Teaching experience

General teaching experience

1 Name of the course: Computational Logic, Semantics and Pragmatics

University degree: Erasmus Mundus Master in Language and Communication Technologies (LCT)

Start date: 2017

End date: 2020

2 Name of the course: Sistemas de Apoyo a la Decisión

University degree: grado en ingeniería informática de gestión y sistemas de información

Start date: 2020



- 3 **Name of the course:** Técnicas de Inteligencia Artificial
University degree: grado en ingeniería informática de gestión y sistemas de información
Start date: 2019
- 4 **Name of the course:** Programación Básica
University degree: grado en ingeniería informática de gestión y sistemas de información
Start date: 2002
- 5 **Name of the course:** Programación Modular y Orientada a Objetos
University degree: grado en ingeniería informática de gestión y sistemas de información
Start date: 2002

Healthcare experience

Projects for planning/improving healthcare

- 1 **Name of the project:** Bottom-up " Validación automática de la descripción de síntomas en informes de alta mediante técnicas de IA y procesamiento del lenguaje natural aplicado a "dolor torácico"
Entity where project took place: Osakidetza Servicio Vasco de Salud
Start date: 2023
Type of entity: Administrative Body of the National Health System
Duration: 1 year
- 2 **Name of the project:** Contract G/211/20/1/0199/o001/0000/012019
Entity where project took place: Osakidetza Servicio Vasco de Salud
Type of entity: Administrative Body of the National Health System

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1 **Name of the project:** GRUPO A consolidado Gobierno Vasco
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Entity where project took place: Universidad del País Vasco
Type of entity: University
Name principal investigator (PI, Co-PI....): Eneko Agirre Bengoa
Nº of researchers: 37
Name of the programme: Grupos Consolidados
Code according to the funding entity: IT1570-22
Start-End date: 01/01/2022 - 31/12/2026
Duration: 4 years
Total amount: 385.000 €



- 2** **Name of the project:** Detección temprana e identificación de riesgos de salud con PLN y argumentación (EDHIA)
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Atutxa Salazar; Casillas Rubio
Funding entity or bodies: Ministerio de Ciencia e Innovación **Type of entity:** PID2022-136522OB-C22
Start-End date: 01/09/2023 - 01/09/2026
Total amount: 268.750 €
- 3** **Name of the project:** DeepR3: Reducing, Reusing and Recycling large models for developing Responsible and Green Language Technologies
Type of project: Basic research (including archaeological digs, etc)
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Aitor Soroa; German Rigau Claramaunt
Nº of researchers: 7
Name of the programme: Transición Ecológica y Digital
Code according to the funding entity: TED2021-130295B-C31
Start-End date: 01/12/2022 - 01/12/2024
Total amount: 273.238,56 €
- 4** **Name of the project:** ANTIDOTE: ArgumeNtaTion-Driven explainable artificial intelligence fOr digiTal mEdicine (ChiST-ERA XAI Project)
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** European Union
Degree of contribution: Researcher
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Rodrigo Agerri
Nº of researchers: 14
Funding entity or bodies: Ministerio de Ciencia e Innovación **Type of entity:** Chist-ERA comisión Europea
Name of the programme: CHISTERA - PCI
Code according to the funding entity: ANTIDOTE - EU CHIST-ERA project (PCI2020-120717-2)
Start-End date: 01/04/2021 - 31/03/2024 **Duration:** 3 years
Total amount: 148.500 €
- 5** **Name of the project:** VirPAT1.0
Entity where project took place: Universidad del País Vasco **Type of entity:** University
City of entity: Bilbao, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Aitziber Atutxa Salazar
Nº of researchers: 2
Funding entity or bodies: Euskampus **Type of entity:** Foundation
Start-End date: 20/07/2022 - 31/12/2023
Total amount: 5.600 €



- 6** **Name of the project:** DOTT-HEALTH: Development Of Text-based Technology to support diagnosis, prevention and HEALTH institutions management
Identify key words: Medical computing
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Koldo Gojenola Gallettebeitia
Nº of researchers: 10 **Nª people/year:** 10
Funding entity or bodies: Ministerio de Ciencia e Innovación **Type of entity:** Organismo
Name of the programme: Retos 2020
Code according to the funding entity: TIN2016-77820-C3-1-R
Start-End date: 01/06/2020 - 31/05/2023 **Duration:** 3 years
Total amount: 160.000 €
- 7** **Name of the project:** UPV/EHU taldea (A motako Eusko Jaurlaritzaren ikerketa taldea)
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Arantza Diaz de Ilarraz
Start-End date: 22/12/2016 - 21/12/2019
Total amount: 135.000 €
- 8** **Name of the project:** DL4NLP: Deep Learning aplicado al Procesamiento del Lenguaje Natural como apoyo a los ámbitos del RIS3
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Aitor Soroa
Nº of researchers: 29
Funding entity or bodies: Gobierno Vasco **Type of entity:** Organismo
Start-End date: 28/02/2019 - 31/03/2019
Total amount: 43.460 €
- 9** **Name of the project:** DL4NLP: Deep Learning aplicado al Procesamiento del Lenguaje Natural como apoyo a los ámbitos del RIS3
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Aitor Soroa
Nº of researchers: 28
Start-End date: 01/01/2018 - 31/03/2019
- 10** **Name of the project:** BERBAOLA: Hizkuntzaren eta hizketaren teknologiak RIS3ko eremuetara aplikatuta.
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Aitor Soroa
Nº of researchers: 25
Type of participation: Team member
Start-End date: 01/01/2017 - 31/12/2018
Total amount: 104.154 €



- 11 Name of the project:** TUNER: Automatic domain adaptation for semantic processing.
Degree of contribution: Researcher
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): German Rigau
N° of researchers: 15
Funding entity or bodies: Ministerio de Economía y Hacienda **Type of entity:** MINECO
Type of participation: Team member
Name of the programme: Retos 2015
Code according to the funding entity: TIN2015-65308-C5-1-R
Start-End date: 01/01/2016 - 31/12/2018
Total amount: 191.906 €
- 12 Name of the project:** ELKAROLA: Tecnologías de la Lengua y el Habla para un Territorio Inteligente, Industrial, Inclusivo y Multilingüe.
Entity where project took place: Universidad del País Vasco **Type of entity:** University
N° of researchers: 25
Start-End date: 01/01/2015 - 31/12/2016
Total amount: 155.604 €
- 13 Name of the project:** Ber2Tek - Language-, Voice- and Multimedia-Technology to Service the Industry of the Languages
Type of project: Research and development, including transfer **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad del País Vasco **Type of entity:** University
N° of researchers: 36
Name of the programme: ELKARTEK
Code according to the funding entity: IE12-333
Start-End date: 24/10/2012 - 31/12/2014
Total amount: 214.235 €
- 14 Name of the project:** WIKITZUL: Machine Translation tools and Basque wikipedia tools working together.
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Kepa Sarasola
N° of researchers: 7
Start-End date: 01/01/2012 - 31/12/2013
Total amount: 25.648 €
- 15 Name of the project:** kNOW2: Language understanding technologies for multilingual domain-oriented information access
Name principal investigator (PI, Co-PI....): Eneko Agirre
Code according to the funding entity: TIN2009-14715-C04-01
Start-End date: 01/01/2010 - 31/12/2012
Total amount: 402.400 €

- 16** **Name of the project:** TIMM thematic network: Tratamiento de Información Multilingüe y Multimodal.
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Alfonso Ureña
Nº of researchers: 37
Name of the programme: Redes de Investigación
Code according to the funding entity: TIN2009-06135-E
Start-End date: 30/06/2010 - 30/06/2011
Total amount: 40.000 €
- 17** **Name of the project:** TIMM thematic network: Tratamiento de Información Multilingüe y Multimodal.
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Nº of researchers: 37
Start-End date: 30/06/2006 - 30/06/2011
Total amount: 40.000 €
- 18** **Name of the project:** MEANING: developing multilingual web-scale language technologies
Geographical area: European Union
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): German Rigau
Code according to the funding entity: IST-2001-34460
Start-End date: 01/01/2002 - 01/01/2005
Total amount: 1.610.000 €

R&D non-competitive contracts, agreements or projects with public or private entities

- 1** **Name of the project:** DESIGN AND IMPLEMENTATION OF TECHNIQUES - Ares(2021)5952992
Name principal investigator (PI, Co-PI....): Aitziber Atutxa Salazar; Koldo Gojenola Gallettebeitia
Nº of researchers: 2
Funding entity or bodies:
JRC European Commission
Start date: 17/11/2021 **Duration:** 12 months
Total amount: 13.450 €
- 2** **Name of the project:** Itzulbide: Testu klinikoak euskaratik eta euskarara egokitzeko itzultzaile automatiko baten garapena eta ezartzea
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Maite Oronoz
Nº of researchers: 9
Start date: 05/06/2019 **Duration:** 2 years
Total amount: 30.000 €



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1 De La Iglesia; Vivó; Chocrón; De Maeztu; Gojenola; Atutxa. An Open Source Corpus and Automatic Tool for Section Identification in Spanish Health Records. *Journal of Biomedical Informatics*. Elsevier, 02/08/2023.
Type of production: Scientific paper
Impact source: JCR
Impact index in year of publication: Q2
Category: JCR
- 2 Goenaga; Andres; Gojenola; Atutxa. Advances in Monolingual and Crosslingual Automatic Disability Annotation in Spanish. *BMC Bioinformatics*. 24 - 265, BMC, 26/06/2023.
DOI: 10.1186/s12859-023-05372-3
Type of production: Scientific paper
Format: Journal
Impact source: JCR
Impact index in year of publication: Q3
- 3 Koldo Gojenola; Aitziber Atutxa; Xabier Lahuerta; Iakes Goenaga. A Section Identification Tool: towards HL7 CDA/CCR Standardization in Spanish Discharge Summaries. *Journal Of Biomedical Informatics*. Volume 121 - 103875, Elsevier, 01/09/2021.
Type of production: Scientific paper
Format: Journal
- 4 alain Garcia; JM Ormaetxe; Aitziber Atutxa; Ignacio Diez; et al. The role of congestive heart failure at atrial fibrillation onset in the data entry errors of electronic health records. *European Journal of Heart Failure*. 23, 2021.
Type of production: Scientific paper
Format: Journal
Impact source: SCOPUS
Category: JCR
Impact index in year of publication: Q1
- 5 Dependenzia Unibertsalen eredura egokitutako euskarazko zuhaitz-bankua. 2019.
Type of production: Scientific paper
Format: Journal
- 6 Aitziber Atutxa; Arantza Diaz de Ilarraza; Maite Oronoz koldo Gojenola; Olatz Perez de Viñaspre. Interpretable Deep Learning to Map Diagnostic Texts to ICD10 Codes. *International Journal of Medical Informatics*<https://doi.org/10.1016/j.ijmedinf.2019.05.015>Link to publication: <https://authors.elsevier.com/c/1ZANI4xGJ~syOE>. 2019.
Type of production: Scientific paper
Format: Journal
- 7 Aitziber Atutxa; Kepa Bengoetxea; Arantza Diaz de Ilarraza; Mikel IruSKIETA. Towards a top-down approach for an automatic discourse analysis for Basque: Segmentation and Central Unit detection tool. *PLoS ONE* 14(9): e0221639. 2019.
Type of production: Scientific paper
Format: Journal



- 8** Atutxa, Aitziber; Perez, Alicia; Casillas, Arantza. Machine Learning Approaches on Diagnostic Term Encoding With the ICD for Clinical Documentation. IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS. 22, 2018. ISSN 2168-2194
DOI: 10.1109/JBHI.2017.2743824
PMID: 28858819
Type of production: Scientific paper
Source of citations: WOS **Citations:** 6
- 9** De La Iglesia; Vivó; Chocrón; De Maeztu; Gojenola; Atutxa. Overview of ClinAIS at IberLEF 2023: Automatic Identification of Sections in Clinical Documents in Spanish. Procesamiento del Lenguaje Natural. 71, Sociedad Española del Procesamiento del Lenguaje Natural,
Type of production: Scientific paper **Format:** Journal
- 10** Agerri; Agirre; Aldabe; Arambarri; Arriola; Atutxa; Azkune; Gojenola; 16 more. State-of-the-Art in Language Technology and Language-centric Artificial Intelligence. European Language Equality, A Strategic Agenda for Digital Language Equality. Springer, 2023.
Type of production: Book chapter
- 11** Universal Dependencies 1.2. 2015.
Type of production: Scientific-technical report **Format:** Scientific and technical document or report
Source of citations: Google csholar **Citations:** 176
- 12** Perez, Alicia; Atutxa, Aitziber; Casillas, Arantza; Gojenola, Koldo; Sellart, Alvaro. Inferred joint multigram models for medical term normalization according to ICD. INTERNATIONAL JOURNAL OF MEDICAL INFORMATICS. 110, 2018. ISSN 1386-5056
DOI: 10.1016/j.ijmedinf.2017.12.007
PMID: 29331250
Source of citations: WOS **Citations:** 7
- 13** Garcia; Valdelvira; Díez; Atutxa; Gojenola; Ormaetxea. Prediction of new onset atrial fibrillation recurrence or persistence with artificial intelligence: first insights of the PRAFAI study. European Heart Journal. 3 - 4,
Format: Journal
Impact source: SCOPUS **Category:** JCR
Impact index in year of publication: Q1

Works submitted to national or international conferences

- 1** **Title of the work:** Contribution of Complex Lexical Information to Solve Syntactic Ambiguity in Basque
Name of the conference: COLING
Type of event: Conference
Type of participation: Participatory - oral communication **Reasons for participation:** Review before acceptance
City of event: Mumbai, India
Date of event: 08/12/2012
With external admission assessment committee: Yes
Type of contribution: Scientific paper
 Atutxa Salazar; Agirre Bengoa; Sarasola. "CORE A". pp. 97 - 114. Association for Computational Linguistics,



- 2** **Title of the work:** Use of rich linguistic information to translate prepositions and grammar cases to Basque
Name of the conference: Conference of the European Association for Machine Translation EAMT 2009
City of event: Barcelona, Spain
Date of event: 14/06/2009
Organising entity: European Association for Machine Translation
Agirre; Atutxa; Labaka; Lersundi; Mayor; Sarasola. CORE B: European Association for Machine Translation,
- 3** **Title of the work:** A Hybrid Approach For Automatic Disability Annotation
Name of the conference: Proceedings of the Third Workshop on Evaluation of Human Language Technologies for Iberian Languages (IberEval 2018)
City of event: Seville, Spain
Organising entity: Sociedad Española del Procesamiento del Lenguaje Natural
Type of contribution: Scientific paper
lakes Goenaga; Aitziber Atutxa; Koldo Gojenola; Arantza Casillas; Arantza Díaz de Ilarraza; Nerea Ezeiza; Maite Oronoz; Alicia Pérez; Olatz Perez de Viñaspre. "Proceedings of the Third Workshop on Evaluation of Human Language Technologies for Iberian Languages (IberEval 2018). ISSN 1613-073. Vol-2150. Pages 31-36.". 2018.
- 4** **Title of the work:** IXA-NER-RE at eHealth-KD Challenge 2020: Cross-Lingual Transfer Learning for Medical Relation Extraction
Name of the conference: IberLEF
Type of contribution: Scientific book or monograph
O Sainz E Andrés; O Lopez de Lacalle A Atutxa. "Proceedings of the Iberian Languages Evaluation Forum (IberLEF 2020)".
- 5** **Title of the work:** IxaMed at CLEF eHealth 2018 Task 1: ICD10 Coding with a Sequence-to-Sequence Approach.
Name of the conference: CLEF
Corresponding author: Yes
City of event: Avignon, France
Organising entity: Universidad de Avignon
Type of contribution: Scientific book or monograph
Aitziber Atutxa; Arantza Casillas; Nerea Ezeiza; Víctor Fresno; lakes Goenaga; Koldo Gojenola; Raquel Martínez; Maite Oronoz Anchordoqui; Olatz Perez de Viñaspre. "CLEF (Working Notes)". 2125, CEUR-WS.org, 2018. Available on-line at: <<http://dblp.uni-trier.de/db/conf/clef/clef2018w.html#AtutxaCEFGGMAP18>>.
- 6** **Title of the work:** MEDIA team at the CLEF-2020 Multilingual Information Extraction Task
Name of the conference: CLEF
Type of contribution: Scientific book or monograph
Iker de la Iglesia; Mikel Martínez-Puente; Alexander Platas; Iria San Miguel; Aitziber Atutxa; Koldo Gojenola. "Working Notes of CLEF 2020 - Conference and Labs of the Evaluation Forum Thessaloniki, Greece, September 22-25, 2020.". 2020.



R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

Committee title: Comité asesor de la Sociedad Española del Procesamiento del Lenguaje Natural

Organization of R&D activities

- 1** **Title of the activity:** XXXVII Congreso de la Sociedad Española de Procesamiento del Lenguaje Natural
Type of activity: Organización de Congreso Internacional
Geographical area: Non EU International
Convening entity: SEPLN
Type of entity: Sociedad Científica
Start-End date: 22/09/2021 - 24/09/2021
Duration: 3 days
- 2** **Title of the activity:** 36th Annual SEPLN Congress
Type of activity: CONGRESO INTERNACIONAL
Convening entity: Sociedad Española del Procesamiento del Lenguaje Natural
Start-End date: 23/09/2020 - 24/09/2020
Duration: 2 days