

Argitalpenak Publicaciones Publications

ALDIZKARIAK – REVISTAS - JOURNALS

1. Abanda A, Mori U, and Lozano JA
[*A review on distance based time series classification*](#)
Data Mining and Knowledge Discovery 33, 2019.
2. Abdeladim L, Matho KS, Clavreul S, Mahou P, Sintès JM, Solinas X, Arganda-Carreras I, Turney SG, Lichtman JW, Chessel A, Bemelmans AP, Loulier K, Supatto W, Livet J, Emma
Multicolor multiscale brain imaging with chromatic multiphoton serial microscopy
Nature Communications 2019
3. Agirre E, Otegi A, Pradel C, Rosset S, Peñas A, Cieliebak M
[LIHLITH: Learning to Interact with Humans by Lifelong Interaction with Humans](#)
Procesamiento Del Lenguaje Natural 63, 2019.
4. Agirrezabal M, Altuna B, Gil-Vallejo L, Goikoetxea J, Gonzalez-Dios I
[Creating vocabulary exercises through NLP](#)
Proceedings of the Digital Humanities in the Nordic Countries 4th Conference, CEUR-WS, 2364, 2019.
5. Aizpurua A, Miñón R, Gamecho B, Cearreta I, Arrue M, Garay-Vitoria N
[*Accessible Ubiquitous Services for Supporting Daily Activities: A Case Study with Young Adults with Intellectual Disabilities*](#)
International Journal of Human-Computer Interaction 35, 2019
6. Aldabe I, Aztiria J, Beltrán F, Bras M, Ceberio K, Cortes I, Coyos J, Dazeas B, Esher L, Labaka G, Leturia I, Sarasola K, Séguier A, Sibille J
[LINGUATEC: Desarrollo de recursos lingüísticos para avanzar en la digitalización de las lenguas de los Pirineos](#)
Procesamiento del Lenguaje Natural (forthcoming), 2019.

7. Álvarez J, Hermo M, Lucio P, Rigau G
[*Automatic white-box testing of first-order logic ontologies*](#)
Journal of Logic and Computation 29, 2019.
8. Álvarez J, Paqui Lucio P, German Rigau G
[*A Framework for the Evaluation of SUMO-based Ontologies Using WordNet*](#)
IEEE Access 7, 2019.
9. Aranzabe M J, Atutxa A, Bengoetxea K, Díaz de Ilarraza A, Goenaga I, Gojenola K, Uria L
[*Dependentzia Unibertsalen eredura egokitutako euskarazko zuhaitz-bankua*](#)
Ekaia, 352019, 2019.
10. Arruabarrena R, Sánchez A, Blanco JM, Vadillo JA and IUsandizaga I
[*Integration of good practices of active methodologies with the reuse of student-generated content*](#)
International Journal of Educational Technology in Higher Education (ETHE) 16, 2019
11. Arrue M, Valencia X, Pérez JE, Moreno L, Abascal J
[*Inclusive Web Empirical Studies in Remote and In-Situ Settings: A User Evaluation of the RemoTest Platform*](#)
International Journal of Human-Computer Interaction 35, 2019
12. Artetxe M, Labaka G, Agirre E
[*Unsupervised Neural Machine Translation, a new paradigm solely based on monolingual text*](#)
Procesamiento del Lenguaje Natural 63, 2019.
13. Artetxe M, Schwenk H
[*Massively Multilingual Sentence Embeddings for Zero-Shot Cross-Lingual Transfer and Beyond*](#)
Transactions of the Association for Computational Linguistics 7, 2019.
14. Atutxa A, Bengoetxea K, Diaz de Ilarraza A, Iruskieta M
[*Towards a top-down approach for an automatic discourse analysis for Basque: Segmentation and Central Unit detection tool*](#)
PLoS ONE 14, 2019.
15. Atutxa A, Diaz de Ilarraza A, Gojenola k, Oronoz M, Perez de Viñaspre O
[*Interpretable Deep Learning to Map Diagnostic Texts to ICD10 Codes*](#)
International Journal of Medical Informatics, 2019.
16. Azpeitia I, Iturrioz J, Díaz O
[*YQL as a Platform for Linked-Data Wrapper Development*](#)
Information System Journal, 2019.
17. Baragaña I, Puerta F
[*Versal deformation of realisable Markov parameters*](#)
International Journal of Control 92, 2019

18. Baragaña I, Roca A
[*Linear feedback shift registers and the minimal realization problem*](#)
Linear Algebra and its Applications 576, 2019
19. Baragaña I, Roca A
[*Weierstrass structure and eigenvalue placement of regular matrix pencils under low rank perturbations*](#)
Siam Journal on Matrix Analysis and Applications 40, 2019
20. Blanco A, Casillas A, Pérez A, Diaz de Ilarraza A
[*Multi-label clinical document classification: Impact of label-density*](#)
Expert Systems with Applications 138, 2019
21. Blanco JM, Dominguez C, Sanchez A, Jaime A, Heras J
[*Managing Telecollaboration among Engineering Students and Faculty: A Case Study from Two Spanish Universities*](#)
International Journal of Engineering Education (IJEE) 35, 2019.
22. Broc C, Calvo B, and Liquet B
[*Penalized Partial Least Square applied to structured data*](#)
Arabian Journal of Mathematics 1, 2019.
23. Carreño A, Inza I, and Lozano JA
[*Analyzing rare event anomaly novelty and outlier detection terms under the supervised classification framework*](#)
Artificial Intelligence Review 10 2019.
24. Carrera D, Bandeira L, Santana R, and Lozano JA
[*Detection of sand dunes on Mars using a regular vine-based classification approach*](#)
Knowledge-Based Systems 163, 2019.
25. Carrera D, Santana R, and Lozano JA
[*Vine copula classifiers for the mind reading problem*](#)
Knowledge Based Systems 163, 2019.
26. Casas F, Chartier P, Murua A
[*Continuous changes of variables and the Magnus expansion*](#)
Journal of Physics Communications 3, 2019.
27. Casillas A, Ezeiza N, Goenaga I, Pérez A, Soto X
[*Measuring the Effect of Different Types of Unsupervised Word Representations on Medical Named Entity Recognition*](#)
International Journal of Medical Informatics, 2019.
28. Chiesa-Estomba CM, Etchaniz O, Larruscain E, Gonzalez-García JA, Sistiaga-Suarez JA, Graña M
[*Radiomics and Texture Analysis in Laryngeal Cancer. Looking for new frontiers in precision*](#)

medicine thought Imaging analysis.

Cancers 11, 2019.

29. Conde A, Larrañaga M, Arruarte A, Elorriaga JA
A Combined Approach for Eliciting Relationships for Educational Ontologies Using General-Purpose Knowledge Bases
IEEE Access 7, 2019
30. Conklin D
Music corpus analysis using unwords
Mathematics and Computation in Music 2019.
31. Conklin D, and Maessen G
Generation of melodies for the lost chant of the Mozarabic rite
Applied Sciences 9, 2019.
32. Dadi K, Rahim M, Abraham A, Chyzyk D, Milham M, Thirion B, Varoquaux G, for the Alzheimer's Disease Neuroimaging Initiative
Benchmarking functional connectome-based predictive models for resting-state fMRI
NeuroImage 192, 2019.
33. Delgado R, Núñez-González JD,
Enhancing confusion entropy (cen) for binary and multiclass classification
PloS one 14, 2019.
34. Dornaika F, Arganda-Carreras I, Belder C
Age estimation in facial images through transfer learning
Machine Vision and Applications 2019
35. Dornaika F, Arganda-Carreras I, Serradilla O
Transfer learning and feature fusion for kinship verification
Neural Computing and Applications, 2019
36. Dornaika F, Elorza A, Wang K, Arganda-Carreras I
Nonlinear, flexible, semisupervised learning scheme for face beauty scoring
Journal of Electronic Imaging 2019
37. Dornaika F, Khattar F, Reta J, Arganda-Carreras I, Hernandez M, Ruichek Y
Image-Based Driver Drowsiness Detection
Lecture Notes in Computer Science 2019
38. Duro J, Pascual JA, Petit S, Sahuquillo J, and Gómez ME
Modeling and analysis of the performance of exascale photonic networks
Concurrency and Computation: Practice and Experience 31, 2019.

39. Estarrona A, Etxeberria I, Soraluze A, Padilla-Moyano M
[*Spelling Normalisation of Basque Historical Texts*](#)
 Procesamiento del Lenguaje Natural 63, 2019.
40. Estevez J, Garate G, Graña M.
[*Gentle Introduction to Artificial Intelligence for High-School Students using Scratch*](#)
 IEEE Access 7, 2019.
41. Etxeberria I, Alegria I, Uria L
[*Weighted finite-state transducers for normalization of historical texts*](#)
 Natural Language Engineering 25, 2019
42. Fernandez de Landa J, Agerri R, Alegria I
[*Large Scale Linguistic Processing of Tweets to Understand Social Interactions among Speakers of Less Resourced Languages: The Basque Case*](#)
 MDPI: Information 10, 6, 2019.
43. Ferrero B, Alvarez a, Arruarte A, Chamba LA, Elorriaga JA, Larrañaga M, López JM, Losada B, Urretavizcaya M, Villamañe M
[*Galán - Entornos de Aprendizaje Adaptativos*](#)
 IE Comunicaciones. Revista Iberoamericana de Informática Educativa 30, 2019
44. Garay-Vitoria N, Cearreta I, Larraza-Mendiluze E
[*Application of an Ontology-Based Platform for Developing Affective Interaction Systems*](#)
 IEEE Access 7, 2019
45. Garmendia A, Graña M, Lopez Guede JM, Rios S
[*Neural and statistical predictors for time to readmission in emergency departments: a case study*](#)
 Neurocomputing 354, 2019.
46. Garmendia A, Rios S, Lopez Guede JM, Graña M
[*Triage prediction in pediatric patients with respiratory problems*](#)
 Neurocomputing 326–327, 2019.
47. Gómez-Olivencia A, López-Onaindia D, Sala N, Balzeau A, Pantoja A, Arganda-Carreras I, Arlegi M, Rios-Garaizar J, Gómez-Robles A
[*The human remains from Axlor \(Dima, Biscay, Northern Iberian Peninsula\)*](#)
 American Journal of Physical Anthropology, 2019
48. Graña M, Alonso M, Izaguirre A
[*A panoramic survey on grasping research trends and topics*](#)
 Cybernetics and Systems 50, 2019.
49. Graña M, Ozaeta L, Chyzhyk D
[*Dynamic Causal Modeling and Machine Learning for Effective Connectivity in Auditory*](#)

Hallucination

Neurocomputing 326–327, 2019.

50. Greer Gordon D, Zelaya A, Arganda-Carreras I, Arganda S, Traniello JFA
*Division of labor and brain evolution in insect societies: Neurobiology of extreme specialization in the turtle ant *Cephalotes varians*.*
 PloS one 2019
51. Hernández-González J, Inza I, and Lozano JA
A Note on the Behavior of Majority Voting in Multi-Class Domains with Biased Annotators
 IEEE Transactions on Knowledge and Data Engineering 31, 2019.
52. Hernández-González J, Inza I, Granado I, Basurko OC, Fernandes JA, and Lozano JA
Aggregated outputs by linear models: An application on marine litter beaching prediction
 Information Sciences 481, 2019.
53. Hernando L, Mendiburu A, and Lozano JA
Anatomy of the Attraction Basins: Breaking with the Intuition
 Evolutionary Computation 27, 2019.
54. J. Doncel, S. Aalto, U. Ayesta
Performance Degradation in Parallel-Server Systems
 IEEE/ACM Transactions on Networking 27, 2019.
55. Jiménez Bascones JL, Graña M, Lopez-Guede JM
A solver-ensemble strategy to deal with occlusions in the labeling of clouds of motion markers
 Neurocomputing 353, 2019.
56. Kaminska-Chuchmala A, Graña M
Indoor Crowd 3D Localization in Big Buildings From WiFi Access Anonymous Data
 Sensors 19, 2019.
57. Karchoud R, Roose Ph, Dalmau M, Illarramendi A, Ilarri S
One app to rule them all: collaborative injection of situations in an adaptable context-aware application
 Journal Ambient Intelligence and Humanized Computing 10, 2019
58. Keller J, Graña M, Kozik R, Andrysiak T, Choraś M
Recent Advances, Emerging Methods and Applications of Pattern Recognition
 Journal of Universal Computer Science 23, 2019.
59. Kumar G, Langa J, Montes I, Conklin D, Kocour M, Kohlmann K, Estonba A
*A novel transcriptome-derived SNPs array for tench (*Tinca tinca* L.)*
 PLOS ONE 14, 2019.

60. Larraza-Mendiluze E, Arbelaiz O, Arruarte A, Lukas JF, Garay-Vitoria N
[*JolasMATIKA: An Experience for Teaching and Learning Computing Topics From University to Primary Education*](#)
 IEEE Transactions on Education, 2019
61. Larrucea X, Fernandez-Gauna B
[*A mapping study about the standard ISO/IEC29110*](#)
 Computer Standards & Interfaces 65, 2019.
62. Larrucea X, Santamaria I, Fernandez-Gauna B
[*Managing Security Debt Across Plc Phases In A Vse Context*](#)
 Journal Of Software-evolution And Process 0, 2019
63. Lastra-Díaz JJ, Goikoetxea J, Hadj M A, García-Serrano A, Aouicha M B, Agirre E
[*Reproducibility dataset for a large experimental survey on word embeddings and ontology-based methods for word similarity*](#)
 Data in Brief, 2019.
64. Lastra-Díaz JJ, Goikoetxea J, Hadj M A, García-Serrano A, Aouicha M B, Agirre E
[*A reproducible survey on word embeddings and ontology-based methods for word similarity: linear combinations outperform the state of the art*](#)
 Engineering Applications of Artificial Intelligence 85, 2019.
65. Lopez-Gazpio I, Maritxalar M, Lapata M, Agirre E
[*Word n-gram attention models for sentence similarity and inference*](#)
 Expert Systems with Applications 132, 2019.
66. Marín-Reyes PA, Irigoien I, Sierra B, Lorenzo-Navarro J, Castrillón Santana M, Arenas C
[*ILRA: Novelty Detection in Face-Based Intervener Re-Identification*](#)
 Symmetry 11, 2019.
67. Martinez R, Salazar-Ramirez A, Arruti A, Irigoyen E, Martín JI, Muguerza J
[*A Self-Paced Relaxation Response Detection System based on Galvanic Skin Response Analysis*](#)
 IEEE Access 2908445, 2019
68. Montenegro C, López Zorrilla A, Mikel Olaso J, Santana R, Justo R, Lozano JA, and Torres MI.
[*A dialogue-act taxonomy for a virtual coach designed to improve the life of elderly*](#)
 Multimodal Technologies and Interaction 3, 2019.
69. Mori U, Mendiburu A, Miranda IM, and Lozano JA
[*Early classification of time series using multi-objective optimization techniques*](#)
 Information Sciences 492, 2019.
70. Navaridas J, Pascual J. A, Erickson A, Stewart I. A, and Luján M
[*INRFlow: An interconnection networks research flow-level simulation framework*](#)
 Journal of Parallel and Distributed Computing 130, 2019.

71. Neubarth K and Conklin D
[*Identification and description of outliers in the Densmore collection of Native American music*](#)
 Applied Sciences 9, 2019.
72. Olazabal-Herrero A, Sendino M, Arganda-Carreras I, Rodríguez JA
[*WDR20 regulates shuttling of the USP12 deubiquitinase complex between the plasma membrane, cytoplasm and nucleus*](#)
 European Journal of Cell Biology 2019.
73. Oregi I, Pérez A, Ser JD, and Lozano JA
[*On-line Elastic Similarity Measures for time series*](#)
 Pattern Recognition 88, 2019.
74. Pascual J. A, Lant J, Concatto C, Attwood A, Navaridas J, Luján M, and Goodacre J
[*On the effects of allocation strategies for exascale computing systems with distributed storage and unified interconnects*](#)
 Concurrency and Computation: Practice and Experience 31, 2019.
75. Pereira J, Oscar Díaz O
[*Using Health Chatbots for Behavior Change: A Mapping Study.*](#)
 Journal of Medical Systems 43, 2019
76. Pérez JE, Valencia X, Arrue M, Abascal J
[*Evaluation of two virtual cursors for assisting web access to people with motor impairments*](#)
 International Journal of Human-Computer Studies 132, 2019
77. Pichel J R, Gamallo P, Alegria I
[*Cross-lingual Diachronic Distance: Application to Portuguese and Spanish*](#)
 SEPLN2019
78. Pichel J R, Gamallo P, Alegria I
[*Measuring diachronic language distance using perplexity. Application to English, Portuguese and Spanish.*](#)
 Natural Language Engineering, 2019.
79. Poncelas A, Sarasola K, Dowling M, Way A, Labaka G, Alegria I
[*Adapting NMT to caption translation in Wikimedia Commons for low-resource languages*](#)
 SEPLN 2019.
80. Rios S, Aguilera F, Nuñez Gonzalez JD, Graña M
[*Semantically enhanced network analysis for influencer identification in online social networks*](#)
 Neurocomputing 326–327, 2019.
81. Rodriguez I, Martínez-Otzeta JM, Irigoien I, Lazkano E
[*Spontaneous talking gestures using Generative Adversarial Networks*](#)
 Robotics and Autonomous Systems 114, 2019.

82. Rodríguez-Moreno I, Martínez-Otzeta JM, Sierra B, Rodríguez I, Jauregi E
[Video Activity Recognition: State-of-the-Art](#)
Sensors 19, 2019.
83. Salazar-Ramirez A, Martin JM, Martinez R, Arruti A, Muguerza J, Sierra B
[A hierarchical architecture for recognising intentionality in mental tasks on a brain computer interface](#)
PLoS ONE 14, 2019
84. Sánchez A, Dominguez C, Blanco JM, Jaime A
[Incorporating Computing Professionals' Know-how: Differences between Assessment by Students, Academics and Professional Experts](#)
ACM Transactions on Computing Education (TOCE) 19, 2019
85. Sánchez A, Domínguez C, Blanco JM, Jaime A
[Incorporating Computing Professionals' Know-how: Differences between Assessment by Students, Academics, and Professional Experts](#)
ACM Transactions on Computing Education 19, 2019
86. Santana R, Marti L, and Zhang M
[GP-based methods for domain adaptation: Using brain decoding across subjects as a test-case](#)
Genetic Programming and Evolvable Machines 20, 2019.
87. Santucci V, and Ceberio J.
[Using pairwise precedences for solving the linear ordering problem](#)
Applied Soft Computing 105998. 2019.
88. Saralegui U, Antón MA, Arbelaitz O, Muguerza J
[Smart Meeting Room Usage Information and Prediction by Modelling Occupancy Profiles](#)
Sensors 19, 2019
89. Savary A, Cordeiro S R, Lichte T, Ramisch C, Iñurrieta U, Giouli V
[Literal occurrences of Multiword Expressions: rare birds that cause a stir](#)
PBML 112, 2019.
90. Shirazi A, Ceberio J, and Lozano JA
[An evolutionary discretized Lambert approach for optimal long-range rendezvous considering impulse limit](#)
Aerospace Science and Technology 94, 2019.
91. Soraluze A, Arregi O, Arregi X, Diaz de Ilarraza A
[EUSKOR: End-to-end coreference resolution system for Basque](#)
PLoS ONE 14, 2019.

92. Soto X, Perez de Viñaspre O, Labaka G, Oronoz M
[*Neural Machine Translation of clinical texts between long distance languages*](#)
 JAMIA (Journal of the American Medical Informatics Association), 2019.
93. Torre-Bastida AI, Bermúdez J, Illarramendi A
[*Estimating query rewriting quality over LOD*](#)
 Semantic Web 10, 2019
94. Torre-Tojal L, Bastarrika A, Barrett B, Sanchez JM, Lopez-Guede JM, Graña M
[*Prediction of Aboveground Biomass from Low Density LiDAR data: Validation Over P. Radiata Data From a Region North of Spain*](#)
 Forests 10, 2019.
95. Torre-Tojal L, Lopez-Guede JM, Graña M
[*Machine learning forest biomass estimation from LiDAR data*](#)
 Expert Systems 36, 2019.
96. Tu X, Murua A, Tang Y
[*New high order symplectic integrators via generating functions with its application in many-body problem*](#)
 BIT Numerical Mathematics, 2019.
97. Urkullu A, Pérez A, and Calvo B
[*On the evaluation and selection of classifier learning algorithms with crowdsourced data*](#)
 Applied Soft Computing 80, 2019.
98. Wolff P, Manuel Graña M, Ríos S, Varza MB
[*Machine learning readmission risk modeling- a pediatric case study*](#)
 Biomed Research International 8532892, 2019.
99. Wolff P, Rios SA, Graña M
[*Setting up standards: A methodological proposal for pediatric Triage machine learning model construction based on clinical outcomes*](#)
 Expert systems with applications 138, 2019.
100. Yera A, Muguerza J, Arbelaitz O, Perona I, Keers R, Ashcroft D, Williams R, Peek N, Jay C, Vigo M
[*Modelling the interactive behaviour of users with a medication safety dashboard in a primary care setting*](#)
 International Journal of Medical Informatics 129, 2019

AKTAK – ACTAS - PROCEEDINGS

1. Abanda A, Mori U, and Lozano J. A.
[*An Exploratory Analysis of the Influence of the Temporal Information in Time Series Classification*](#)
FDST2019: Learning from Data Streams and Time Series: Convergences Specificities and Common Challenges 2019.
2. Abanda A, Mori U, and Lozano JA
[*Feature Extraction for Algorithm-Type Selection in Time Series Classification*](#)
EITIC Doctoral Student Workshop 2019.
3. Abascal J, Arrue M, Garay N, Gardezabal L
[*Egokituz Laboratorio de Interacción Persona-Computador para Necesidades Especiales*](#)
XX Congreso Internacional en Interacción Persona-Ordenador, Interacción 2019
4. Abascal J, Arrue M, Garay-Vitoria N, Lozano MD
[*Proceedings of the XX International Conference on Human Computer Interaction*](#)
XX International Conference on Human Computer Interaction, Interacción 2019
5. Abdeladim L, Matho K, Clavreul S, Mahou P, Sintès JM, Solinas X, Arganda-Carreras I, Chessel A, Turney S, Lichtman JW, Bemelmans AP, Loulier K, Supatto W, Livet J, Beaurepai E
[*Chromatic serial multiphoton microscopy for high-content multiscale analysis of large brain volumes*](#)
Biophotonics Congress: Optics in the Life Sciences - Congress
6. A, Bolotov A, Diaz de Cerio U, Hermo M, Lucio P
[*Towards Certified Model Checking for PLTL using One-pass Tableaux.*](#)
Symposium on Temporal Representation and Reasoning (TIME 2019), Leibniz International Proceedings in Informatics (LIPIcs) 147.
7. Abuin A, Bolotov A, Diaz de Cerio U, Hermo M, Lucio P
[*Using Contexts in Tableaux for PLTL: An illustrative Example.*](#)
Proceedings of Automated Reasoning Workshop 2019.
8. Agirre E, Jonsson A, Larcher A
[*Framing Lifelong Learning as Autonomous Deployment: Tune Once Live Forever*](#)
Dialogue Systems and Lifelong Learning special session at Tenth International Workshop on Spoken Dialogue Systems Technology (IWSDS), 2019
9. Alberdi E, Makazaga J, Murua A, Antonana M
[*An algorithm based on continuation techniques for minimization problems with non-linear equality constraints*](#)
The Fifth Conference of Mathematical Society of the Republic of Moldova, 2019
10. Alexander Bolotov, Montserrat Hermo, Paqui Lucio
[*Extending Fairness Expressibility of ECTL+: A Tree-Style One-Pass Tableau Approach \(Extended*](#)

Abstract).

Actas de las XIX Jornadas sobre Programación y Lenguajes (PROLE 2019).

11. Alkorta J, Gojenola K, Iruskieta M

[*Towards discourse annotation and sentiment analysis of the Basque Opinion Corpus*](#)

Proceedings of Discourse Relation Parsing and Treebanking (DISRPT2019), 2019.

12. Altuna B, Aranzabe M J, Diaz de Ilarraza A

[*EusTimeBank-TL corpora: denbora-informaziodun testuetatik denbora-lerroetara*](#)

III. Ikergazte. Nazioarteko Ikerketa Euskaraz, Giza Zientziak eta Arteak, 2019.

13. Alvarez A, Villamañe M

[*e2Forja, Methodology to Define Formative Continuous Assessment and Grading Processes*](#)

VII Int. Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM'19), 2019

14. Álvarez J, Gonzalez-Dios I, Rigau G

[*Commonsense Reasoning Using WordNet and SUMO: a Detailed Analysis*](#)

Proceedings of the Tenth Global Wordnet Conference, 2019.

15. Alza J, Barlett M, Ceberio J, and McCall J.

[*On the Definition of Dynamic Optimization Problems under the Rotation of the Landscape*](#)

(GECCO-2019). Workshop on Evolutionary Computation for Permutation Problems 2019.

16. Anton E, Ayesta U, Simatos F

[*On the impact of mobility in cellular networks*](#)

Proceedings of WiOpt 2019

17. Araquistain IB, Garmendia X, Graña M, de Lope Asiain J

[*Fusion of Inertial Motion Sensors and Electroencephalogram for Activity Detection.*](#)

Understanding the Brain Function and Emotions. IWINAC 2019. Computer Science 11486.

18. Arruabarrena R, R Vadillo JA, Blanco JM, Sánchez A, Usandizaga I, Goñi A

[*Handling high quality digital reusable student-generated content \(SGC\)*](#)

IKD-Jendarteak 2019

19. Arruabarrena R; Vadillo JA; Blanco JM

[*Revisión de software entre pares y reutilización de código en la enseñanza de desarrollo de software web*](#)

Actas JENUI 2019

20. Artetxe M, Labaka G, Agirre E

[*An Effective Approach to Unsupervised Machine Translation*](#)

Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics, 2019.

21. Artetxe M, Labaka G, Agirre E

[*Bilingual Lexicon Induction through Unsupervised Machine Translation*](#)

Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics, 2019.

22. Artetxe M, Schwenk H
[*Margin-based Parallel Corpus Mining with Multilingual Sentence Embeddings*](#)
Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics, 2019.
23. Arza E, Ceberio J, Irurozki E, and Perez A
[*Approaching the Quadratic Assignment Problem with Kernels of Mallows Models under the Hamming Distance*](#)
Proceedings of the 2019 Genetic and Evolutionary Computation Conference (GECCO-2019).
24. Atutxa U, Iruskieta M, Ansa O
[*Laburpena eskolan: estrakzioaren eta abstrakzioaren arteko zubia*](#)
XX Congreso Internacional de Didáctica de la Lengua y la Literatura: Hizkuntzaren eta Literaturaren didaktika testuinguru eleaniztunetan. SEDLL, 2019
25. Benhabiles H, Hammoudi K, Yang Z, Windal F, Melkemi M, Dornaika F, Arganda-Carreras I
[*Deep Learning based Detection of Hair Loss Levels from Facial Images*](#)
2019 Ninth International Conference on Image Processing Theory, Tools and Applications (IPTA) - Congress
26. Berges I, Ramírez-Durán VJ, Illarramendi A
[*Facilitating Data Exploration in Industry 4.0.*](#)
ER Workshops 2019.
27. Calvo B, Shir OM, Ceberio J, Doerr C, Back T, and Lozano JA.
[*Bayesian Performance Analysis for Black-Box Optimization Benchmarking*](#)
Companion of the 2019 Genetic and Evolutionary Computation Conference (GECCO-2019).
Workshop on Black Box Discrete Optimization Benchmarking.
28. Cánovas O; Usandizaga I; Molina-Carmona R
[*Aprendizaje Basado en Proyectos entre asignaturas: tres experiencias, muchas preguntas y algunas respuestas*](#)
Actas JENUI 2019,.
29. Díaz O, Medeiros R, Montalvillo I
[*Change analysis of #if-def blocks with featurecloud.*](#)
SPLC (B), 2019
30. Díaz O, P. Contell J, Medina H
[*Peer Review for Design Science Manuscripts: A Pilot Study on Dedicated Highlighters.*](#)
DESRIST, 2019
31. Díaz O, Medina H, Anfurrutia fi
[*Coding-Data Portability in Systematic Literature Reviews: a W3C's Open Annotation Approach.*](#)
EASE, 2019

32. Diaz de Ilarraza A, Iruskieta M
[*Ayuda de las tecnologías lingüísticas en la investigación en Humanidades Digitales*](#)
 XVI Simposio Internacional de Comunicación Social 2019
33. Echaniz O, Graña M
[*BIOTHINGS: A Pipeline Creation Tool for PAR-CLIP Sequence Analysis.*](#)
 Understanding the Brain Function and Emotions. IWINAC 2019. Lecture Notes in Computer Science 11486.
34. Elvira Pino, Marisa Navarro, Fernando Orejas
[*Incremental Concurrent Synchronization with Conflict Resolution.*](#)
 Actas de las XIX Jornadas sobre Programación y Lenguajes (PROLE 2019).
35. Estevez J, Garate G, López-Guede JM, Graña M
[*Using Scratch to Improve Undergraduate Students' Skills on Artificial Intelligence.*](#)
 Computational Intelligence in Security for Information Systems (CISIS 2019) and European Transnational Education (ICEUTE 2019). Advances in Intelligent Systems and Computing 951.
36. Flores JL, Calvo B, and Perez A
[*Supervised non-parametric discretization based on Kernel density estimation*](#)
 Pattern Recognition Letters. 2019.
37. Franco D, Muñoz-Barrutia A, Arganda-Carreras I
[*Deep learning solutions for the automatic segmentation of mitochondria on EM images*](#)
 BioImage Informatics 2019 - Congress
38. Garay-Vitoria N, Arruti A, Martín JL, JMuguerza J, Garzo A, Hernández E, Álvarez A, Arambarri J, Paz-Alonso PM, Carreiras M, Ramos-Murguialday A
[*Neuromodulation system in closed loop for enhancing the sleep and the memory consolidation*](#)
 XX International Conference on Human Computer Interaction, Interacción 2019
39. Garcia E, Ceberio J
[*Hybrid Heuristics for the Linear Ordering Problem*](#)
 IEEE Congress on Evolutionary Computation (CEC-2019).
40. Gardezabal X, Abascal J
[*Use of Robots for Play by Children with Cerebral Palsy*](#)
 13th Int. Conference on Ubiquitous Computing and Ambient Intelligence UCAmI 2019.
41. Goenaga I, Santana S, Santiso S, Gojenola R, Pérez A, Casillas A
[*IxaMed at eHealth-KD Challenge 2019: Using Different Paradigms to Solve Clinical Relation Extraction*](#)
 2019.

42. Gonzalez-Dios I, Álvarez J, Rigau G
[*Common-sense Reasoning Using WordNet and SUMO: a Detailed Analysis.*](#)
Proceedings of the 10th Global WordNet Conference (GWC 2019).
43. Gonzalez-Dios I, Álvarez J, Rigau G
[*Exploiting Metonymy from Available Knowledge Resources.*](#)
Proceedings of the 20th International Conference on Computational Linguistics and Intelligent Text Processing (CICLing 2019).
44. Gonzalez-Dios I, Rigau G
[*Textual genre based approach to use wordnets in language-for-specific-purpose classroom as dictionary*](#)
Proceedings of the Tenth Global Wordnet Conference, 2019
45. Graña M
[*Lattice Auto-Associative Memories Induced Multivariate Morphology for Hyperspectral Image Spectral-Spatial Classification.*](#)
Progress in Computer Recognition Systems. CORES 2019. Advances in Intelligent Systems and Computing 977, 2019.
46. Graña M, de Lope Asiain J
[*A Short Review of Some Aspects of Computational Neuroethology.*](#)
Understanding the Brain Function and Emotions. IWINAC 2019. Computer Science 11486.
47. Graña M, Triguero A
[*An Approach to Teach Nao Dialogue Skills*](#)
Understanding the Brain Function and Emotions. IWINAC 2019. Lecture Notes in Computer Science 11486.
48. Hernando L, Mendiburu A, and Lozano J. A.
[*Characterising the Rankings Produced by Combinatorial Optimisation Problems and Finding their Intersections*](#)
Proceedings of The Genetic and Evolutionary Computation Conference 2019.
49. Huitzil I, Bobillo F, Mena E, Bobed C, Bermúdez J
[*Some Reflections on the Discovery of Hyponyms between Ontologies*](#)
ICEIS
50. Iñurrieta U
[*Unitate Fraseologikoen agerpen literalak, urre baina urri*](#)
Ikergazte 2019
51. Iruskieta M
[*CLARIN Europako sarea: eHumanitateak eta zientzia sozialak lankidetzarako behar duten*](#)

[hizkuntza-azpiegitura sortzen](#)

Humanitate digitalak: aukerak, erakundeen rol berriak eta elkarlana. UEU. 2019

52. Iruskieta M, Arriola J M

[Tresna digitalak hizkuntzak eta gramatikak ikertzeko eta irakasteko](#)

II Jornadas GrOC/GaiGram 2019.

53. Iruskieta M, Bengoetxea K, Atutxa A, Diaz de Ilarraza A

[Multilingual segmentation based on neural networks and pre-trained word embeddings](#)

Proceedings of Discourse Relation Parsing and Treebanking (DISRPT2019), 2019.

54. Iruskieta M, Diaz de Ilarraza A

[Tecnologías del lenguaje para la enseñanza e investigación en Humanidades Digitales](#)

Universidad de La Havana, 2019

55. Lahuerta X, Goenaga I, Gojenola K, Atutxa A, Oronoz M

[IxaMed at PharmacoNER Challenge 2019](#)

Ikergazte 2019

56. López-Gil JM, Garay-Vitoria N

[Emotion recognition in video and audio through the use of Artificial Intelligence techniques](#)

XX International Conference on Human Computer Interaction, Interacción 2019

57. López-Gil JM, Garay-Vitoria N

[Reconocimiento de emociones en video y audio mediante el uso de técnicas de Inteligencia Artificial](#)

XX Congreso Internacional en Interacción Persona-Ordenador, Interacción 2019

58. Lopez-Guede JM, Graña M, Estevez J

[Neural Model of a Specific Single Proton Exchange Membrane PEM Fuel Cell.](#)

Soft Computing Models in Industrial and Environmental Applications (SOCO 2019). Advances in Intelligent Systems and Computing 950.

59. Lopez-Guede JM, Graña M, et al.

[Neural model of a specific single proton exchange membrane PEM fuel cell](#)

SOCO 2019

60. Losada B, Lopez-Gil JM, Urretavizcaya M

[Improving Agile Software Development Methods by means of User](#)

XX International Conference on Human Computer Interaction, Interacción 2019

61. Maritxalar M, Arruarte A, Ibañez J, Medialdua I, Ceberio J, Irigoien I, Lukas JF

[Using Flipped Classroom in Computer Science](#)

International Conference on Technology, Knowledge & Society, 2019

62. Montenegro C, Santana R, and Lozano JA
[*Data generation approaches for topic classification in multilingual spoken dialog system*](#)
 PErsasive Technologies Related to Assistive Environments Conference (PETRA-19) 2019.
63. Moraleda S, de Lope Asiain J, Graña M
[*Recognizing Cognitive Activities Through Eye Tracking.*](#)
 Understanding the Brain Function and Emotions. IWINAC 2019. Computer Science 11486.
64. Murua M, Galar D, and Santana R
[*Adaptation of a Branching Algorithm to Solve Discrete Optimization Problems*](#)
 Operations Research 2019.
65. Nguyen N, Ayesta U, Prabhu BJ
[*Scheduling users in drive-thru Internet: a multi-armed bandit approach*](#)
 Proceedings of WiOpt 2019
66. Ormazabal A, Artetxe M, Labaka G, Soroa A, Agirre E
[*Analyzing the Limitations of Cross-lingual Word Embedding Mappings*](#)
 Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics, 2019.
67. Peñas A, Veron M, Pradel C, Otegi A, Echegoyen G, Rodrigo A
[*Continuous Learning for Question Answering*](#)
 Proceedings of the 10th International Workshop on Spoken Dialog Systems (IWSDS 2019) - DSLI Special Session, 2019
68. Perez-Frutos M, Salazar-Ramirez A, Alvarez ML, Martinez R, Martin JI, Arruti A
[*Influence of the Environmental Hostility Level in an HCI System*](#)
 Proceedings on Human Computer Interaction. ACM International Conference Proceeding Series
69. Perona I, Yera A, Arbelaitz O, Muguerza J, Pérez JE, Valencia X
[*Towards automatic problem detection in web navigation based on client-side interaction data*](#)
 Proceedings on Human Computer Interaction. ACM International Conference Proceeding Series
70. Perona I, Yera A, Arbelaitz O, Muguerza J, Pérez JE, Valencia X
[*Towards automatic problem detection in web navigation based on client-side interaction data*](#)
 XX International Conference on Human Computer Interaction, Interacción 2019
71. Ravelli A A, Lopez de Lacalle O, Agirre E
[*A comparison of representation models in a non-conventional semantic similarity scenario*](#)
 Proceedings of the Sixth Italian Conference on Computational Linguistics, 2019.
72. Roman I, Mendiburu A, Santana R, and Lozano JA
[*Bayesian Optimization approaches for massively multi-modal problems*](#)
 Proceedings of the Learning and Intelligent Optimization Conference (LION) 2019.

73. Roman I, Mendiburu A, Santana R, and Lozano JA
[*Evolving Gaussian Process kernels for translation editing effort estimation*](#)
Proceedings of the Learning and Intelligent Optimization Conference (LION) 2019. ACM
74. Roman I, Santana R, Mendiburu A, and Lozano J. A.
[*Sentiment analysis with genetically evolved Gaussian kernels*](#)
Proceedings of the 2019 on Genetic and Evolutionary Computation Conference 2019. ACM
75. Romero-Hernandez P, de Lope Asiain J, Graña M
[*Deep Learning Prediction of Gait Based on Inertial Measurements.*](#)
Understanding the Brain Function and Emotions. IWINAC 2019. Computer Science 11486.
76. Sala A, Arrue M, Pérez JE, Valencia X
[*Accessibility-in-use of public e-services: An exploratory study including users with low vision*](#)
XX International Conference on Human Computer Interaction, Interacción 2019
77. Shirazi A, Ceberio J, and Lozano JA
[*Optimal multi-impulse space rendezvous considering limited impulse using a discretized Lambert problem combined with evolutionary algorithms*](#)
European Conference for Aeronautics and Space Sciences (EUCASS) 2019.
78. Sileo D, Pradel C, Echegoyen G, Peñas A, Otegi A, Deriu J, Cieliebak M, Barrena A, Agirre E
[*Matching Words and Knowledge Graph Entities with Meta-Embeddings*](#)
Proceedings of CAp2019.
79. Soto X, Perez de Viñaspre O, Oronoz M, Labaka G
[*Leveraging SNOMED CT terms and relations for machine translation of clinical texts from Basque to Spanish*](#)
Proceedings of the Second Workshop on Multilingualism at the Intersection of Knowledge Bases and Machine Translation, 2019.
80. Tellaetxe-Abete M, Lawrie C, and Calvo B
[*A machine-learning based method for the refinement of variants in FFPE DNA sequencing data*](#)
ISMB/ECCB 2019.
81. Torres ML, Olaso JM, Montenegro C, Santana R, Vazquez A, Justo R, Lozano JA et al.
[*The EMPATHIC Project: Mid-term Achievements*](#)
Conference on Pervasive Technologies Related to Assistive Environments Conference (PETRA-19) 2019.
82. Torre-Tojal L, Lopez-Guede JM, Graña M
[*Geospatial Modeling using LiDAR technology,*](#)
WordCist 2019
83. Torre-Tojal L, Lopez-Guede JM, Graña M
[*Geospatial Modeling Using LiDAR Technology.*](#)

New Knowledge in Information Systems and Technologies. WorldCIST'19 2019. Advances in Intelligent Systems and Computing 931.

84. Unanue I, Merino M, and Lozano JA

[*A mathematical analysis of EDAs with distance-based exponential models*](#)

Proceedings of the 2019 Genetic and Evolutionary Computation Conference (GECCO-2019).

85. Urbizu G, Soraluze A, Arregi O

[*Deep Cross-Lingual Coreference Resolution for Less-Resourced Languages: The Case of Basque*](#)

Proceedings of the 2nd Workshop on Computational Models of Reference, Anaphora and Coreference (CRAC 2019), co-located with NAACL 2019

86. Urbizu G, Soraluze A, Arregi O

[*Neurona-sareetan oinarritutako euskararako korreferentzia-ebazpena*](#)

III. Ikerketa Nazioarteko ikerketa euskaraz, 2019

87. Villalobos K, Ramírez-Durán VJ, Díez B, Blanco JM, Goñi A, Illarramendi A

[*A Hierarchical Storage System for Industrial Time-Series Data.*](#)

INDIN 2019

88. Yaghoobzadeh Y, Kann K, Hazen T, Agirre E, Schütze H

[*Probing for Semantic Classes: Diagnosing the Meaning Content of Word Embeddings*](#)

Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics, 2019

89. Yera A, Arbelaitz O, Jaruegi O, Muguerza J

[*eGobernua Europar Batasunean: erabilera-maila eta arrazoiak*](#)

III. Ikerketa Nazioarteko Ikerketa Euskaraz. Kongresuko artikulua-bilduma Ingeniaritza eta Arkitektura, 2019

LIBURUAK – LIBROS – BOOKS

1. Iruskieta M, Maritxalar M, Arroyo-Sagasta A, Camacho A

[*IKTak eta konpetentzia digitalak hezkuntzan*](#)

UPV/EHU – UEU, 2019

2. Rivadeneyra JM

[*Multimedia-Internet*](#)

LIBURU ATALAK – CAPITULOS DE LIBRO – BOOK CHAPTERS

1. Abascal J, Arrue M, Valencia X

[*Tools for Web Accessibility Evaluation*](#)

Human-Computer Interaction Series, Springer, 2019

2. Abascal J, Arbelaiz O, Gardeazabal X, Muguerza J, Pérez JE, Yera A, Valencia X
[*Personalizing the User Interface for People with Disabilities*](#)
 Personalized Human-Computer Interaction, De Gruyter, 2019
3. Aldabe I, Maritxalar M.
[*Corpusak.*](#)
 IKTak eta konpetentzia digitalak hezkuntzan, 2019.
4. Altuna B, Aranzabe M J, Díaz de Ilarraza A
[*Euskarazko denbora-informazioaren azterketa tratamendu automatikorako*](#)
 Hizkuntzalari euskaldunen III. topaketa. Zer berri?, 135-148. Bilbo: Udako Euskal Unibertsitatea (UEU), 2019
5. Iruskieta M, Otegi A, Uria L, Diaz de Ilarraza A, Artolazabal A
[*Zer i\(ra\)kas dezakegu geure corpusekin "jolastuz"?*](#)
 Traineru bete lagun: Iñaki Gaminde omenduz. UPV/EHU, 2019
6. Maritxalar M
[*Hizkuntzaren Prozesamendurako Tresnak Ikaskuntzaren lagungarri*](#)
 IKTak eta konpetentzia digitalak hezkuntzan, 2019.

BESTELAKOAK – OTROS – OTHERS

1. Alkorta J, Gojenola R, Iruskieta M
[*Sentimenduen tratamendu konputazionalerantz: gramatika maila ezberdinetako sentimendu balentzia aldatzaileen bila*](#)
 2019
2. Gonzalez-Dios I, Etxeberria I
[*Kultura digitalizatua: Europa eta Euskal Herria*](#)
 Bikaintasuna Euskal Ikasketetan IX. Euskara eta euskal kultura eremu digitalean, 2019
3. Iruskieta M, Maritxalar M
[*Euskaraz i\(ra\)kasteko baliabideen eta tresnen garapena: aukerak eta mugak, hizkuntza-teknologietatik begiratuta*](#)
 Zornotzako Barnetegia, 2019.
4. Malagon M, and Ceberio J
[*Evolving Neural Networks in Reinforcement Learning by means of UMDAc*](#)
 arXiv:1904.10932. 2019.

5. Rodriguez D, Dolado J, Tuya J, Pfahl D,
[Software defect prediction with zero-inflated Poisson models](https://arxiv.org/abs/1910.13717)
<https://arxiv.org/abs/1910.13717>, 2019