

# Ernestina Menasalvas Ruiz

## List of Publications by Year in descending order

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Version: 2024-02-01

110  
papers

1,672  
citations

361045

20  
h-index

360668

35  
g-index

117  
all docs

117  
docs citations

117  
times ranked

1965  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining complex networks and data mining: Why and how. <i>Physics Reports</i> , 2016, 635, 1-44.	10.3	139
2	To burn-out or not to burn-out: a cross-sectional study in healthcare professionals in Spain during COVID-19 pandemic. <i>BMJ Open</i> , 2021, 11, e044945.	0.8	83
3	Optimizing Functional Network Representation of Multivariate Time Series. <i>Scientific Reports</i> , 2012, 2, 630.	1.6	79
4	A multicenter study of the early detection of synaptic dysfunction in Mild Cognitive Impairment using Magnetoencephalography-derived functional connectivity. <i>NeuroImage: Clinical</i> , 2015, 9, 103-109.	1.4	79
5	Legal disputes as a proxy for regional conflicts over water rights in Chile. <i>Journal of Hydrology</i> , 2016, 535, 36-45.	2.3	60
6	A methodology to compare Dimensionality Reduction algorithms in terms of loss of quality. <i>Information Sciences</i> , 2014, 270, 1-27.	4.0	53
7	Mining Recurring Concepts in a Dynamic Feature Space. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014, 25, 95-110.	7.2	50
8	C-DBSCAN: Density-Based Clustering with Constraints. <i>Lecture Notes in Computer Science</i> , 2007, , 216-223.	1.0	47
9	Prediction of MOR and MOE of structural plywood board using an artificial neural network and comparison with a multivariate regression model. <i>Composites Part B: Engineering</i> , 2012, 43, 3528-3533.	5.9	47
10	Toward data mining engineering: A software engineering approach. <i>Information Systems</i> , 2009, 34, 87-107.	2.4	46
11	Density-based semi-supervised clustering. <i>Data Mining and Knowledge Discovery</i> , 2010, 21, 345-370.	2.4	45
12	Bayesian network multi-classifiers for protein secondary structure prediction. <i>Artificial Intelligence in Medicine</i> , 2004, 31, 117-136.	3.8	38
13	MARS: A Personalised Mobile Activity Recognition System. , 2012, , .		38
14	Intelligent Therapy Assistant (ITA) for cognitive rehabilitation in patients with acquired brain injury. <i>BMC Medical Informatics and Decision Making</i> , 2014, 14, 58.	1.5	38
15	C-DenStream: Using Domain Knowledge on a Data Stream. <i>Lecture Notes in Computer Science</i> , 2009, , 287-301.	1.0	33
16	Assessing Time Series Reversibility through Permutation Patterns. <i>Entropy</i> , 2018, 20, 665.	1.1	33
17	PET-CT image fusion using random forest and $\tilde{\Lambda}$ wavelet transform. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2933.	1.0	31
18	Learning recurring concepts from data streams with a context-aware ensemble. , 2011, , .		30

#	ARTICLE	IF	CITATIONS
19	DISNET: a framework for extracting phenotypic disease information from public sources. PeerJ, 2020, 8, e8580.	0.9	29
20	New insights into the suitability of the third dimension for visualizing multivariate/multidimensional data: A study based on loss of quality quantification. Information Visualization, 2016, 15, 3-30.	1.2	28
21	Disease networks and their contribution to disease understanding: A review of their evolution, techniques and data sources. Journal of Biomedical Informatics, 2019, 94, 103206.	2.5	26
22	Public Health and Epidemiology Informatics: Can Artificial Intelligence Help Future Global Challenges? An Overview of Antimicrobial Resistance and Impact of Climate Change in Disease Epidemiology. Yearbook of Medical Informatics, 2019, 28, 224-231.	0.8	25
23	A cost model to estimate the effort of data mining projects (DMCoMo). Information Systems, 2008, 33, 133-150.	2.4	23
24	Fusion of Visible and Thermal Images Using a Directed Search Method for Face Recognition. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1756005.	0.7	22
25	Information content: Assessing meso-scale structures in complex networks. Europhysics Letters, 2014, 106, 30001.	0.7	20
26	Tracking Recurrent Concepts Using Context. Lecture Notes in Computer Science, 2010, , 168-177.	1.0	20
27	Tracking recurrent concepts using context. Intelligent Data Analysis, 2012, 16, 803-825.	0.4	19
28	A management Ad Hoc networks model for rescue and emergency scenarios. Expert Systems With Applications, 2012, 39, 9554-9563.	4.4	19
29	Parental networks: uncovering new functions in biological data. Scientific Reports, 2014, 4, 5112.	1.6	19
30	Superpixel-Based Roughness Measure for Multispectral Satellite Image Segmentation. Remote Sensing, 2015, 7, 14620-14645.	1.8	18
31	Local optimal scale in a hierarchical segmentation method for satellite images. Journal of Intelligent Information Systems, 2016, 46, 517-529.	2.8	18
32	Ätrous wavelet transformÄbased hybrid image fusion for face recognition using region classifiers. Expert Systems, 2018, 35, e12307.	2.9	17
33	Profiling Lung Cancer Patients Using Electronic Health Records. Journal of Medical Systems, 2018, 42, 126.	2.2	17
34	Supervoxels-Based Histone as a New AlzheimerÄs Disease Imaging Biomarker. Sensors, 2018, 18, 1752.	2.1	16
35	Mobile Activity Recognition Using Ubiquitous Data Stream Mining. Lecture Notes in Computer Science, 2012, , 130-141.	1.0	15
36	Daily Evapotranspiration Mapping Using Regression Random Forest Models. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 5359-5368.	2.3	15

#	ARTICLE	IF	CITATIONS
37	Sex is a strong prognostic factor in stage IV non-small-cell lung cancer patients and should be considered in survival rate estimation. <i>Cancer Epidemiology</i> , 2020, 67, 101737.	0.8	15
38	SOMAR: A SOcial Mobile Activity Recommender. <i>Expert Systems With Applications</i> , 2012, 39, 8423-8429.	4.4	14
39	Reconstructing the patient's natural history from electronic health records. <i>Artificial Intelligence in Medicine</i> , 2020, 105, 101860.	3.8	14
40	Unravelling data for rapid evidence-based response to COVID-19: a summary of the unCoVer protocol. <i>BMJ Open</i> , 2021, 11, e055630.	0.8	13
41	On the use of random graphs as null model of large connected networks. <i>Chaos, Solitons and Fractals</i> , 2019, 119, 318-325.	2.5	12
42	Negation and uncertainty detection in clinical texts written in Spanish: a deep learning-based approach. <i>PeerJ Computer Science</i> , 2022, 8, e913.	2.7	11
43	Recognition of Time Expressions in Spanish Electronic Health Records. , 2019, , .		10
44	CALDS. , 2010, , .		10
45	Feature Selection in the Reconstruction of Complex Network Representations of Spectral Data. <i>PLoS ONE</i> , 2013, 8, e72045.	1.1	9
46	Automatic extraction and identification of users' responses in Facebook medical quizzes. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 127, 197-203.	2.6	9
47	Knowledge Discovery in Spectral Data by Means of Complex Networks. <i>Metabolites</i> , 2013, 3, 155-167.	1.3	8
48	Identifying Polarity in Tweets from an Imbalanced Dataset about Diseases and Vaccines Using a Meta-Model Based on Machine Learning Techniques. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 9019.	1.3	8
49	Self-configuring data mining for ubiquitous computing. <i>Information Sciences</i> , 2013, 246, 83-99.	4.0	7
50	Evaluating Wikipedia as a Source of Information for Disease Understanding. , 2018, , .		7
51	Integrating Speculation Detection and Deep Learning to Extract Lung Cancer Diagnosis from Clinical Notes. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 865.	1.3	7
52	Preprocessing and analyzing genetic data with complex networks: An application to Obstructive Nephropathy. <i>Networks and Heterogeneous Media</i> , 2012, 7, 473-481.	0.5	7
53	Context-Aware Collaborative Data Stream Mining in Ubiquitous Devices. <i>Lecture Notes in Computer Science</i> , 2011, , 22-33.	1.0	6
54	How Wikipedia disease information evolve over time? An analysis of disease-based articles changes. <i>Information Processing and Management</i> , 2020, 57, 102225.	5.4	6

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55	Extracting Diagnostic Knowledge from MedLine Plus: A Comparison between MetaMap and cTAKES Approaches. <i>Current Bioinformatics</i> , 2018, 13, 573-582.	0.7	6
56	Calculating economic indexes per household and censal section from official Spanish databases. <i>Intelligent Data Analysis</i> , 2003, 7, 603-613.	0.4	5
57	Subsessions: A granular approach to click path analysis. <i>International Journal of Intelligent Systems</i> , 2004, 19, 619-637.	3.3	5
58	Multi-agent location system in wireless networks. <i>Expert Systems With Applications</i> , 2013, 40, 2244-2262.	4.4	5
59	Challenges of Medical Text and Image Processing: Machine Learning Approaches. <i>Lecture Notes in Computer Science</i> , 2016, , 221-242.	1.0	5
60	Characterising obstructive sleep apnea patients through complex networks. <i>Chaos, Solitons and Fractals</i> , 2019, 119, 196-202.	2.5	5
61	TIDA: A Spanish EHR Semantic Search Engine. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 235-242.	0.5	5
62	Data mining in genomics and proteomics. <i>Artificial Intelligence in Medicine</i> , 2004, 31, iii-iv.	3.8	4
63	COLLABORATIVE DATA STREAM MINING IN UBIQUITOUS ENVIRONMENTS USING DYNAMIC CLASSIFIER SELECTION. <i>International Journal of Information Technology and Decision Making</i> , 2013, 12, 1287-1308.	2.3	4
64	Geography of legal water disputes in Chile. <i>Journal of Maps</i> , 2017, 13, 7-13.	1.0	4
65	Multi-scale Rols selection for classifying multi-spectral images. <i>Multidimensional Systems and Signal Processing</i> , 2020, 31, 745-769.	1.7	4
66	A Classification Model: Syntax and Semantics for Classification. <i>Lecture Notes in Computer Science</i> , 2005, , 59-68.	1.0	4
67	Histogram of Bunched Intensity Values Based Thermal Face Recognition. <i>Lecture Notes in Computer Science</i> , 2014, , 367-374.	1.0	4
68	Text Analysis and Information Extraction from Spanish Written Documents. <i>Lecture Notes in Computer Science</i> , 2014, , 188-197.	1.0	4
69	Extracting Cancer Treatments from Clinical Text written in Spanish: A Deep Learning Approach. , 2021, , .		4
70	Lung Cancer Concept Annotation from Spanish Clinical Narratives. <i>Lecture Notes in Computer Science</i> , 2019, , 153-163.	1.0	4
71	Situation-Aware Data Stream Mining Service for Ubiquitous Applications. , 2010, , .		3
72	Influenza and Measles-MMR: two case study of the trend and impact of vaccine-related Twitter posts in Spanish during 2015-2018. <i>Human Vaccines and Immunotherapeutics</i> , 2022, 18, 1-16.	1.4	3

#	ARTICLE	IF	CITATIONS
73	Spa-neg: An Approach for Negation Detection in Clinical Text Written in Spanish. Lecture Notes in Computer Science, 2020, , 323-337.	1.0	3
74	Convolutional neural networks for estimating spatially distributed evapotranspiration. , 2017, , .		3
75	EMERGING USER INTENTIONS: MATCHING USER QUERIES WITH TOPIC EVOLUTION IN NEWS TEXT STREAMS. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2009, 17, 59-80.	0.9	2
76	Situation-Aware Data Mining Service for Ubiquitous Environments. , 2009, , .		2
77	Adapting Batch Learning Algorithms Execution in Ubiquitous Devices. , 2010, , .		2
78	A social network activity recommender system for ubiquitous devices. , 2011, , .		2
79	Introduction to the special issue on social data analytics in medicine and healthcare. International Journal of Data Science and Analytics, 2019, 8, 325-326.	2.4	2
80	Lung Cancer Diagnosis Extraction from Clinical Notes Written in Spanish. , 2020, , .		2
81	Creating a Metamodel Based on Machine Learning to Identify the Sentiment of Vaccine and Disease-Related Messages in Twitter: the MAVIS Study. , 2020, , .		2
82	Optimal Scale in a Hierarchical Segmentation Method for Satellite Images. Lecture Notes in Computer Science, 2014, , 351-358.	1.0	2
83	3D Dendrite Spine Detection - A Supervoxel Based Approach. Lecture Notes in Computer Science, 2014, , 359-366.	1.0	2
84	Improving the Learning of Recurring Concepts through High-Level Fuzzy Contexts. Lecture Notes in Computer Science, 2010, , 234-239.	1.0	2
85	Bayesian Networks to Predict Data Mining Algorithm Behavior in Ubiquitous Computing Environments. Lecture Notes in Computer Science, 2011, , 119-141.	1.0	2
86	Soft computing for content generation: Trading market in a basketball management video game. , 2013, , .		1
87	Medical Mining. , 2015, , .		1
88	A Meta-Path-Based Prediction Method for Disease Comorbidities. , 2021, , .		1
89	Mitosis Detection in Breast Cancer Using Superpixels and Ensemble Classifiers. Advances in Intelligent Systems and Computing, 2017, , 137-145.	0.5	1
90	A Model PM for Preprocessing and Data Mining Proper Process. , 2007, , 397-399.		1

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91	Constraint-Based Query Clustering. , 2007, , 304-309.		1
92	Automated Constraint Selection for Semi-supervised Clustering Algorithm. Lecture Notes in Computer Science, 2010, , 151-160.	1.0	1
93	Dynamic Clustering Process to Calculate Affinity Degree of Users as Basis of a Social Network Recommender. Lecture Notes in Computer Science, 2013, , 215-225.	1.0	1
94	Analysis of Electronic Health Records to Identify the Patientâ€™s Treatment Lines: Challenges and Opportunities. Lecture Notes in Computer Science, 2019, , 437-442.	1.0	1
95	Approach for Discovering and Tracking Local Web Search Trends. , 2009, , .		0
96	Autonomous Adaptive Data Mining for u-Healthcare. Lecture Notes in Computer Science, 2010, , 433-438.	1.0	0
97	Recurrent drifts: applying fuzzy logic to concept similarity function. , 2015, , .		0
98	Automatic Recording and Analysis of Somniloquy Through the Use of Mobile Devices to Support the Diagnosis of Psychological Pathologies. Communications in Computer and Information Science, 2017, , 169-180.	0.4	0
99	OncoCall: Analyzing the Outcomes of the Oncology Telephone Patient Assistance. , 2017, , .		0
100	Predictors of health-related quality of life in musculoskeletal disease patients: a longitudinal analysis. Therapeutic Advances in Musculoskeletal Disease, 2021, 13, 1759720X2110340.	1.2	0
101	Clustering Moving Object Trajectories: Integration in CROSS-CPP Analytic Toolbox. Applied Sciences (Switzerland), 2021, 11, 3693.	1.3	0
102	Financial Risk Prediction Using Rough Sets Tools: A Case Study. Lecture Notes in Computer Science, 2005, , 495-502.	1.0	0
103	Granular Model for Data Mining. , 2009, , 4392-4402.		0
104	Database Support for Automatic Web Queries Categorization. Studies in Computational Intelligence, 2009, , 57-70.	0.7	0
105	A Human-Centric Perspective on Ubiquitous Knowledge Discovery. Lecture Notes in Computer Science, 2010, , 90-107.	1.0	0
106	Granular Model for Data Mining. , 2012, , 1444-1454.		0
107	Framework for the Establishment of Resource-Aware Data Mining Techniques on Critical Infrastructures. Communications in Computer and Information Science, 2012, , 560-569.	0.4	0
108	Research Challenge of Locally Computed Ubiquitous Data Mining. , 2013, , 1960-1978.		0

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109	¿Puede Data Science ayudarnos a mejorar el pronóstico y tratamiento del Paciente oncológico?. Comunicación Y Hombre, 2020, , 151-166.	0.0	0
110	Research Challenge of Locally Computed Ubiquitous Data Mining. , 0, , 576-594.		0