

# Carlos Dafonte

## List of Publications by Year in descending order

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Version: 2024-02-01

85  
papers

18,042  
citations

279798

23  
h-index

128289

60  
g-index

88  
all docs

88  
docs citations

88  
times ranked

11464  
citing authors

#	ARTICLE	IF	CITATIONS
1	AI-based user authentication reinforcement by continuous extraction of behavioral interaction features. <i>Neural Computing and Applications</i> , 2022, 34, 11691-11705.	5.6	4
2	Identification of new hot subdwarf binary systems by means of Virtual Observatory tools. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 4239-4245.	4.4	1
3	<i>Gaia</i> Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021, 649, A6.	5.1	175
4	<i>Gaia</i> Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021, 649, A9.	5.1	55
5	<i>Gaia</i> Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021, 649, A8.	5.1	60
6	<i>Gaia</i> Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021, 649, A7.	5.1	84
7	<i>Gaia</i> Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021, 649, A1.	5.1	2,429
8	<i>Gaia</i> Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021, 650, C3.	5.1	137
9	Close Binary Stars in Planetary Nebulae through Gaia EDR3. <i>Engineering Proceedings</i> , 2021, 7, 40.	0.4	0
10	Planetary nebulae in <i>Gaia</i> EDR3: Central star identification, properties, and binarity. <i>Astronomy and Astrophysics</i> , 2021, 656, A51.	5.1	20
11	Low Cost Automated Security Audit System. <i>Engineering Proceedings</i> , 2021, 7, .	0.4	0
12	A Blended Artificial Intelligence Approach for Spectral Classification of Stars in Massive Astronomical Surveys. <i>Entropy</i> , 2020, 22, 518.	2.2	1
13	Phosphorus-rich stars with unusual abundances are challenging theoretical predictions. <i>Nature Communications</i> , 2020, 11, 3759.	12.8	23
14	A First Approach to Authentication Based on Artificial Intelligence for Touch-Screen Devices. <i>Proceedings (mdpi)</i> , 2020, 54, 1.	0.2	0
15	CultUnity3D: A Virtual Spatial Ecosystem for Digital Engagement with Cultural Heritage Sites. <i>Proceedings (mdpi)</i> , 2020, 54, .	0.2	1
16	Open Source Monitoring System for IT Infrastructures Incorporating IoT-Based Sensors. <i>Proceedings (mdpi)</i> , 2020, 54, .	0.2	2
17	Gaia DR2 Distances to Planetary Nebulae. <i>Galaxies</i> , 2020, 8, 29.	3.0	4
18	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2020, 637, C3.	5.1	4

#	ARTICLE	IF	CITATIONS
19	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2020, 642, C1.	5.1	6
20	Wide binaries in planetary nebulae with<i>Gaia</i>DR2. Astronomy and Astrophysics, 2020, 644, A173.	5.1	7
21	The Integration of RFID Technology into Business Settings. Proceedings (mdpi), 2019, 21, 6.	0.2	0
22	Oil spill segmentation in SAR images using convolutional neural networks. A comparative analysis with clustering and logistic regression algorithms. Applied Soft Computing Journal, 2019, 84, 105716.	7.2	54
23	<i>Gaia</i>Data Release 2. Astronomy and Astrophysics, 2019, 623, A110.	5.1	101
24	Properties of central stars of planetary nebulae with distances in <i>Gaia</i> DR2. Astronomy and Astrophysics, 2019, 630, A150.	5.1	19
25	Tracking and Minimization of Adverse Events in the Patient Care Process while in a Hospital Emergency Service Area. Proceedings (mdpi), 2019, 31, 48.	0.2	0
26	Network Data Flow Clustering based on Unsupervised Learning. , 2019, , .		1
27	<i>Gaia</i>Data Release 2. Astronomy and Astrophysics, 2018, 616, A11.	5.1	323
28	<i>Gaia</i>Data Release 2. Astronomy and Astrophysics, 2018, 616, A13.	5.1	78
29	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A14.	5.1	140
30	Network Data Unsupervised Clustering to Anomaly Detection. Proceedings (mdpi), 2018, 2, 1173.	0.2	3
31	Distributed Fast Self-Organized Maps for Massive Spectrophotometric Data Analysis. Sensors, 2018, 18, 1419.	3.8	3
32	Traceability in Patient Healthcare through the Integration of RFID Technology in an ICU in a Hospital. Sensors, 2018, 18, 1627.	3.8	26
33	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A10.	5.1	638
34	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A1.	5.1	6,364
35	<i>Gaia</i>Data Release 2. Astronomy and Astrophysics, 2018, 616, A12.	5.1	491
36	System Based on RFID Technology for Product Transport Tracking. Proceedings (mdpi), 2017, 1, 752.	0.2	1

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37	The Development of an RFID Solution to Facilitate the Traceability of Patient and Pharmaceutical Data. Sensors, 2017, 17, 2247.	3.8	16
38	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2017, 605, A79.	5.1	78
39	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2017, 601, A19.	5.1	77
40	Distributed Unsupervised Clustering for Outlier Analysis in the Biggest Milky Way Survey: ESA Gaia Mission. Lecture Notes in Computer Science, 2017, , 840-852.	1.3	0
41	On the estimation of stellar parameters with uncertainty prediction from Generative Artificial Neural Networks: application to<i>Gaia</i>RVS simulated spectra. Astronomy and Astrophysics, 2016, 594, A68.	5.1	15
42	Safety and Traceability in Patient Healthcare through the Integration of RFID Technology for Intravenous Mixtures in the Prescription-Validation-Elaboration-Dispensation-Administration Circuit to Day Hospital Patients. Sensors, 2016, 16, 1188.	3.8	18
43	Evaluation of a Tracking System for Patients and Mixed Intravenous Medication Based on RFID Technology. Sensors, 2016, 16, 2031.	3.8	22
44	The<i>Gaia</i>mission. Astronomy and Astrophysics, 2016, 595, A1.	5.1	4,509
45	<i>Gaia</i>Data Release 1. Astronomy and Astrophysics, 2016, 595, A2.	5.1	1,590
46	Improving the Locating Precision of an Active WIFI RFID System to Obtain Traceability of Patients in a Hospital. , 2016, , .		0
47	Gaia and the Planetary Nebulae. Proceedings of the International Astronomical Union, 2016, 12, 305-308.	0.0	0
48	Stellar parametrization from<i>Gaia</i>RVS spectra. Astronomy and Astrophysics, 2016, 585, A93.	5.1	62
49	Analysis and Knowledge Discovery by Means of Self-Organizing Maps for Gaia Data Releases. Lecture Notes in Computer Science, 2016, , 137-144.	1.3	1
50	Mixing numerical and categorical data in a Self-Organizing Map by means of frequency neurons. Applied Soft Computing Journal, 2015, 36, 246-254.	7.2	19
51	A cloud-integrated web platform for marine monitoring using GIS and remote sensing. Application to oil spill detection through SAR images. Future Generation Computer Systems, 2014, 34, 155-160.	7.5	46
52	GUASOM: Gaia Utility for Analysis and Knowledge Discovery based on Self Organizing Maps. EAS Publications Series, 2014, 67-68, 373-373.	0.3	0
53	SOM ensemble for unsupervised outlier analysis. Application to outlier identification in the Gaia astronomical survey. Expert Systems With Applications, 2013, 40, 1530-1541.	7.6	22
54	The<i>Gaia</i>astrophysical parameters inference system (Apsis). Astronomy and Astrophysics, 2013, 559, A74.	5.1	115

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55	An approach to the analysis of SDSS spectroscopic outliers based on self-organizing maps. <i>Astronomy and Astrophysics</i> , 2013, 559, A7.	5.1	22
56	HSC: A multi-resolution clustering strategy in Self-Organizing Maps applied to astronomical observations. <i>Applied Soft Computing Journal</i> , 2012, 12, 204-215.	7.2	11
57	Cloud Integrated Web Platform for Marine Monitoring Using GIS and Remote Sensing: Application to Oil Spill Detection through SAR Images. <i>Lecture Notes in Computer Science</i> , 2012, , 446-453.	1.3	1
58	Genetic Algorithms Applied to Spectral Index Extraction. <i>Studies in Computational Intelligence</i> , 2011, , 195-207.	0.9	0
59	Parameterization of RVS synthetic stellar spectra for the ESA Gaia mission: Study of the optimal domain for ANN training. <i>Expert Systems With Applications</i> , 2010, 37, 1719-1727.	7.6	6
60	3D Visualization for system and networks monitoring support. , 2010, , .		0
61	ANNs and Wavelets: A Strategy for <i>Gaia</i> RVS Low S/N Stellar Spectra Parameterization. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 608-617.	3.1	25
62	Connectionist Systems and Signal Processing Techniques Applied to the Parameterization of Stellar Spectra. , 2010, , 187-203.		0
63	STARMIND: A FUZZY LOGIC KNOWLEDGE-BASED SYSTEM FOR THE AUTOMATED CLASSIFICATION OF STARS IN THE MK SYSTEM. <i>Astronomical Journal</i> , 2009, 137, 3245-3253.	4.7	25
64	Outlier Analysis in BP/RP Spectral Bands. <i>Lecture Notes in Computer Science</i> , 2009, , 378-386.	1.3	0
65	Parameter Extraction from RVS Stellar Spectra by Means of Artificial Neural Networks and Spectral Density Analysis. <i>Lecture Notes in Computer Science</i> , 2008, , 212-219.	1.3	2
66	STARMIND: Automated Classification of Astronomical Data Based on an Hybrid Strategy. <i>Lecture Notes in Computer Science</i> , 2008, , 196-203.	1.3	0
67	A User-Friendly Framework for Multilanguage ANN Generation: Real Case Applications. , 2007, , .		0
68	Intelligent agents technology applied to tasks scheduling and communications management in a critical care telemonitoring system. <i>Computers in Biology and Medicine</i> , 2007, 37, 760-773.	7.0	12
69	Integration of remote sensing techniques and connectionist models for decision support in fishing catches. <i>Environmental Modelling and Software</i> , 2007, 22, 862-870.	4.5	10
70	Cooperative AI Techniques for Stellar Spectra Classification. , 2006, , 332-346.		0
71	A Comparative Study of KBS, ANN and Statistical Clustering Techniques for Unattended Stellar Classification. <i>Lecture Notes in Computer Science</i> , 2005, , 566-577.	1.3	6
72	The Performance of Various Edge Detector Algorithms in the Analysis of Total Hip Replacement X-rays. <i>Lecture Notes in Computer Science</i> , 2005, , 506-517.	1.3	1

#	ARTICLE	IF	CITATIONS
73	An Artificial Neural Networks Approach to the Estimation of Physical Stellar Parameters. International Federation for Information Processing, 2004, , 45-54.	0.4	0
74	A comparison between functional networks and artificial neural networks for the prediction of fishing catches. Neural Computing and Applications, 2004, 13, 24-31.	5.6	29
75	Automated knowledge-based analysis and classification of stellar spectra using fuzzy reasoning. Expert Systems With Applications, 2004, 27, 237-244.	7.6	19
76	Knowledge-based system for telecontrol of anaerobic wastewater treatment plants. Expert Systems, 2000, 17, 71-80.	4.5	4
77	Database Based Reasoning for Real Time Monitoring and Data Analysis in Intensive Care Units. Expert Systems, 1997, 14, 190-198.	4.5	6
78	Development of an analysis system of the X-rays of bones [for prosthesis placement]. , 0, , .		3
79	Intelligent management of processes in a ICU telemedicine system. , 0, , .		3
80	Intelligent agents technology applied to tasks control in ICU telesupervision. , 0, , .		2
81	3D visualization module in a telemedicine project. , 0, , .		2
82	An intelligent system for the spectral classification of stars. artificial neural networks vs. statistical clustering techniques. , 0, , .		0
83	Expert systems and artificial neural networks applied to stellar optical spectroscopy: a comparative analysis. , 0, , .		0
84	GUASOM: an adaptive visualization tool for unsupervised clustering in spectrophotometric astronomical surveys. Neural Computing and Applications, 0, , 1.	5.6	3
85	A distributed learning algorithm for Self-Organizing Maps intended for outlier analysis in the GAIA "ESA mission. , 0, , .		3