Antonio F DÃ-az

List of Publications by Year
in descending order

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71 papers	4,486 citations	471509 17 h-index	161849 54 g-index
72 all docs	72 docs citations	72 times ranked	8623 citing authors

#	Article	IF	Citations
1	Multi-messenger Observations of a Binary Neutron Star Merger[*]. Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
2	Letter of intent for KM3NeT 2.0. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 084001.	3.6	512
3	Multiobjective evolutionary optimization of the size, shape, and position parameters of radial basis function networks for function approximation. IEEE Transactions on Neural Networks, 2003, 14, 1478-1495.	4.2	168
4	The SUrvey for Pulsars and Extragalactic Radio Bursts â€“ II. New FRB discoveries and their follow-up. Monthly Notices of the Royal Astronomical Society, 2018, 475, 1427-1446.	4.4	156
5	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 850, L35.	8.3	135
6	Sensitivity of the KM3NeT/ARCA neutrino telescope to point-like neutrino sources. Astroparticle Physics, 2019, 111, 100-110.	4.3	71
7	Joint Constraints on Galactic Diffuse Neutrino Emission from the ANTARES and IceCube Neutrino Telescopes. Astrophysical Journal Letters, 2018, 868, L20.	8.3	64
8	First all-flavor neutrino pointlike source search with the ANTARES neutrino telescope. Physical Review D, 2017, 96, .	4.7	60
9	All-flavor Search for a Diffuse Flux of Cosmic Neutrinos with Nine Years of ANTARES Data. Astrophysical Journal Letters, 2018, 853, L7.	8.3	41
10	New constraints on all flavor Galactic diffuse neutrino emission with the ANTARES telescope. Physical Review D, 2017, 96, .	4.7	33
11	Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube. Astrophysical Journal, 2019, 870, 134.	4.5	32
12	Characterisation of the Hamamatsu photomultipliers for the KM3NeT Neutrino Telescope. Journal of Instrumentation, 2018, 13, P05035-P05035.	1.2	25
13	The Search for Neutrinos from TXS 0506+056 with the ANTARES Telescope. Astrophysical Journal Letters, 2018, 863, L30.	8.3	24
14	Intrinsic limits on resolutions in muon- and electron-neutrino charged-current events in the KM3NeT/ORCA detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
15	Assessing the Noise Immunity and Generalization of Radial Basis Function Networks. Neural Processing Letters, 2003, 18, 35-48.	3.2	21
16	Constraining the contribution of Gamma-Ray Bursts to the high-energy diffuse neutrino flux with 10Âyr of ANTARES data. Monthly Notices of the Royal Astronomical Society, 2020, 500, 5614-5628.	4.4	19
17	KM3NeT front-end and readout electronics system: hardware, firmware, and software. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.8	18
18	Measuring the atmospheric neutrino oscillation parameters and constraining the 3+1 neutrino model with ten years of ANTARES data. Journal of High Energy Physics, 2019, 2019, 1.	4.7	16

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19	An Algorithm for the Reconstruction of Neutrino-induced Showers in the ANTARES Neutrino Telescope. Astronomical Journal, 2017, 154, 275.	4.7	14
20	The cosmic ray shadow of the Moon observed with the ANTARES neutrino telescope. European Physical Journal C, 2018, 78, 1006.	3.9	14
21	All-sky search for high-energy neutrinos from gravitational wave event GW170104 with the AntaresÂneutrino telescope. European Physical Journal C, 2017, 77, 1.	3.9	13
22	Annealing-based heuristics and genetic algorithms for circuit partitioning in parallel test generation. Future Generation Computer Systems, 1998, 14, 439-451.	7.5	12
23	ANTARES Search for Point Sources of Neutrinos Using Astrophysical Catalogs: A Likelihood Analysis. Astrophysical Journal, 2021, 911, 48.	4.5	11
24	SHORT-TERM PREDICTION OF CHAOTIC TIME SERIES BY USING RBF NETWORK WITH REGRESSION WEIGHTS. International Journal of Neural Systems, 2000, 10, 353-364.	5.2	10
25	Parallel high-dimensional multi-objective feature selection for EEG classification with dynamic workload balancing on CPUâ€“GPU architectures. Cluster Computing, 2017, 20, 1881-1897.	5.0	10
26	Long-term monitoring of the ANTARES optical module efficiencies using $$^{40}mathrm{{K}}$$ 40 K decays in sea water. European Physical Journal C, 2018, 78, 1.	3.9	10
27	Protocol Offload Evaluation Using Simics. , 2006, , .		9
28	Affinity-Based Network Interfaces for Efficient Communication on Multicore Architectures. Journal of Computer Science and Technology, 2013, 28, 508-524.	1.5	9
29	Architecture and performance of the KM3NeT front-end firmware. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.8	9
30	Two-level Hash/Table approach for metadata management in distributed file systems. Journal of Supercomputing, 2013, 64, 144-155.	3.6	8
31	The search for high-energy neutrinos coincident with fast radio bursts with the ANTARES neutrino telescope. Monthly Notices of the Royal Astronomical Society, 2019, 482, 184-193.	4.4	8
32	Protocol offload analysis by simulation. Journal of Systems Architecture, 2009, 55, 25-42.	4.3	7
33	Energyâ€aware load balancing of parallel evolutionary algorithms with heavy fitness functions in heterogeneous CPUâ€GPU architectures. Concurrency Computation Practice and Experience, 2019, 31, e4688.	2.2	7
34	A New Offloaded/Onloaded Network Interface for High Performance Communication. , 2009, , .		6
35	System performance evaluation by combining RTC and VHDL simulation: A case study on NICs. Journal of Systems Architecture, 2013, 59, 1277-1298.	4.3	6
36	A Search for Cosmic Neutrino and Gamma-Ray Emitting Transients in 7.3 yr of ANTARES and Fermi LAT Data. Astrophysical Journal, 2019, 886, 98.	4.5	6

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37	Reliability studies for the White Rabbit Switch in KM3NeT: FIDES and Highly Accelerated Life Tests. Journal of Instrumentation, 2020, 15, C02042-C02042.	1.2	6
38	KM3NeT acquisition: the new version of the Central Logic Board and its related Power Board, with highlights and evolution of the Control Unit. Journal of Instrumentation, 2020, 15, C03024-C03024.	1.2	6
39	Performance of Message-Passing MATLAB Toolboxes. Lecture Notes in Computer Science, 2003, , 228-242.	1.3	6
40	Swad: Web System for Education Support. , 2007, , 133-142.		6
41	XMLP: a Feed-Forward Neural Network with Two-Dimensional Layers and Partial Connectivity. Lecture Notes in Computer Science, 2003, , 89-96.	1.3	5
42	Network interfaces for programmable NICs and multicore platforms. Computer Networks, 2010, 54, 357-376.	5.1	5
43	High-throughput multi-multicast transfers in data center networks. Journal of Supercomputing, 2017, 73, 152-163.	3.6	5
44	ANTARES Neutrino Search for Time and Space Correlations with IceCube High-energy Neutrino Events. Astrophysical Journal, 2019, 879, 108.	4.5	5
45	Parallel Coarse Grain Computing of Boltzmann Machines. Neural Processing Letters, 1998, 7, 169-184.	3.2	4
46	Comparison of Onloading and Offloading Strategies to Improve Network Interfaces. , 2008, , .		4
47	A Multi-Threaded Network Interface Using Network Processors. , 2009, , .		4
48	Time-energy analysis of multilevel parallelism in heterogeneous clusters: the case of EEG classification in BCI tasks. Journal of Supercomputing, 2019, 75, 3397-3425.	3.6	4
49	Modeling Network Behaviour By Full-System Simulation. Journal of Software, 2007, 2, .	0.6	4
50	An efficient OS support for communication on Linux clusters. , 0, , .		3
51	Parameter Configurations for Hole Extraction in Cellular Neural Networks (CNN). Analog Integrated Circuits and Signal Processing, 2002, 32, 149-155.	1.4	3
52	Analyzing the benefits of protocol offload by full-system simulation. , 2007, , .		2
53	Fault tolerant PVFS2 based on data replication. , 2010, , .		2
54	Improving IPS by network processors. Journal of Supercomputing, 2011, 57, 99-108.	3.6	2

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55	Secure Data Access in Hadoop Using Elliptic Curve Cryptography. Lecture Notes in Computer Science, 2016, , 136-145.	1.3	2
56	Evaluation of redundant data storage in clusters based on multi-multicast and local storage. Journal of Supercomputing, 2017, 73, 576-590.	3.6	2
57	Neutrino non-standard interactions with theKM3NeT/ORCA detector. , 2021, , .		2
58	A New Scalable Approach for Distributed Metadata in HPC. Lecture Notes in Computer Science, 2016, , 106-117.	1.3	2
59	Cmos implementation of a cellular neural network with dynamically alterable cloning templates. , 1991, , 260-267.		1
60	Genetic algorithms and neuro-dynamic programming: application to water supply networks. , 0, , .		1
61	Client cache for PVFS2. , 2010, , .		1
62	Accelerating network applications by distributed interfaces on heterogeneous multiprocessor architectures. Journal of Supercomputing, 2011, 58, 302-313.	3.6	1
63	Leveraging bandwidth improvements to web servers through enhanced network interfaces. Journal of Supercomputing, 2013, 65, 1020-1036.	3.6	1
64	A Powerâ€“Performance Perspective to Multiobjective Electroencephalogram Feature Selection on Heterogeneous Parallel Platforms. Journal of Computational Biology, 2018, 25, 882-893.	1.6	1
65	Multiprotocol Authentication Device for HPC and Cloud Environments Based on Elliptic Curve Cryptography. Electronics (Switzerland), 2020, 9, 1148.	3.1	1
66	KM3NeT Detection Unit Line Fit reconstruction using positioning sensors data. , 2021, , .		1
67	Improving Dynamic Web Servers by Affinity-Based Network Interfaces. , 2011, , .		0
68	Prediction of energy consumption in a NSGA-II-based evolutionary algorithm. , 2018, , .		0
69	Improving the Performance of Bandwidth-Demanding Applications by a Distributed Network Interface. Lecture Notes in Computer Science, 2009, , 462-465.	1.3	0
70	Science with Neutrino Telescopes in Spain. Universe, 2022, 8, 89.	2.5	0
71	Evaluating Erasure Codes in Dicoogle PACS. IEEE Access, 2022, 10, 71874-71885.	4.2	0