Belén Carro

List of Publications by Year
in descending order

73 papers	3,088 citations	218677 26 h-index	189892 50 g-index
78 all docs	78 docs citations	78 times ranked	3064 citing authors

#	Article	IF	Citations
1	Supervised contrastive learning over prototype-label embeddings for network intrusion detection. Information Fusion, 2022, 79, 200-228.	19.1	43
2	A predictive hybrid reduced order model based on proper orthogonal decomposition combined with deep learning architectures. Expert Systems With Applications, 2022, 187, 115910.	7.6	25
3	Additive Ensemble Neural Network with Constrained Weighted Quantile Loss for Probabilistic Electric-Load Forecasting. Sensors, 2021, 21, 2979.	3.8	14
4	Network intrusion detection with a novel hierarchy of distances between embeddings of hash IP addresses. Knowledge-Based Systems, 2021, 219, 106887.	7.1	19
5	Novel Data-Driven Models Applied to Short-Term Electric Load Forecasting. Applied Sciences (Switzerland), 2021, 11, 5708.	2.5	14
6	Model-free short-term fluid dynamics estimator with a deep 3D-convolutional neural network. Expert Systems With Applications, 2021, 177, 114924.	7.6	18
7	SARS-CoV-2 mechanisms of action and impact on human organism, risk factors and potential treatments. An exhaustive survey. International Journal of Transgender Health, 2021, 14, 894-947.	2.3	0
8	Network Intrusion Detection Based on Extended RBF Neural Network With Offline Reinforcement Learning. IEEE Access, 2021, 9, 153153-153170.	4.2	30
9	Application of deep reinforcement learning to intrusion detection for supervised problems. Expert Systems With Applications, 2020, 141, 112963.	7.6	184
10	IoT type-of-traffic forecasting method based on gradient boosting neural networks. Future Generation Computer Systems, 2020, 105, 331-345.	7.5	31
11	Detection of early stages of Alzheimer's disease based on MEG activity with a randomized convolutional neural network. Artificial Intelligence in Medicine, 2020, 107, 101924.	6.5	34
12	Shallow neural network with kernel approximation for prediction problems in highly demanding data networks. Expert Systems With Applications, 2019, 124, 196-208.	7.6	50
13	Neural network architecture based on gradient boosting for IoT traffic prediction. Future Generation Computer Systems, 2019, 100, 656-673.	7.5	38
14	Adversarial environment reinforcement learning algorithm for intrusion detection. Computer Networks, 2019, 159, 96-109.	5.1	131
15	Exploratory study on Class Imbalance and solutions for Network Traffic Classification. Neurocomputing, 2019, 343, 100-119.	5.9	36
16	Variational data generative model for intrusion detection. Knowledge and Information Systems, 2019, 60, 569-590.	3.2	28
17	Intelligent IoT Traffic Classification Using Novel Search Strategy for Fast-Based-Correlation Feature Selection in Industrial Environments. IEEE Internet of Things Journal, 2018, 5, 1616-1624.	8.7	58
18	Easing the assessment of emerging technologies in technology observatories. Findings about patterns of dissemination of emerging technologies on the internet. Technology Analysis and Strategic Management, 2018, 30, 113-129.	3.5	8

#	Article	IF	Citations
19	Deep Learning Model for Multimedia Quality of Experience Prediction Based on Network Flow Packets. IEEE Communications Magazine, 2018, 56, 110-117.	6.1	38
20	From data analysis to storytelling in scenario building. A semiotic approach to purpose-dependent writing of stories. Futures, 2017, 88, 15-29.	2.5	17
21	Ensemble network traffic classification: Algorithm comparison and novel ensemble scheme proposal. Computer Networks, 2017, 127, 68-80.	5.1	44
22	Network Traffic Classifier With Convolutional and Recurrent Neural Networks for Internet of Things. IEEE Access, 2017, 5, 18042-18050.	4.2	487
23	Conditional Variational Autoencoder for Prediction and Feature Recovery Applied to Intrusion Detection in IoT. Sensors, 2017, 17, 1967.	3.8	189
24	The role of metaphors in the development of technologies. The case of the artificial intelligence. Futures, 2016, 84, 145-153.	2.5	18
25	Assessing emerging issues. The external and internal approach. Futures, 2015, 73, 12-21.	2.5	13
26	Artificial Neural Network for Short-Term Load Forecasting in Distribution Systems. Energies, 2014, 7, 1576-1598.	3.1	86
27	A Survey on Electric Power Demand Forecasting: Future Trends in Smart Grids, Microgrids and Smart Buildings. IEEE Communications Surveys and Tutorials, 2014, 16, 1460-1495.	39.4	387
28	Artificial neural networks for short-term load forecasting in microgrids environment. Energy, 2014, 75, 252-264.	8.8	170
29	Innovative DAMA algorithm for multimedia DVB-RCS system. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	4
30	An Intelligent Surveillance Platform for Large Metropolitan Areas with Dense Sensor Deployment. Sensors, 2013, 13, 7414-7442.	3.8	29
31	Improving teaching in engineering education: adjunct enterprise professors programme. Journal of Intelligent Manufacturing, 2013, 24, 495-499.	7.3	4
32	Intelligent context retrieval and management for services in the Internet of Things. International Journal of Ad Hoc and Ubiquitous Computing, 2013, 13, 218.	0.5	1
33	A multi-agent system architecture for smart grid management and forecasting of energy demand in virtual power plants. , 2013, 51, 106-113.		172
34	IMS: The New Generation of Internet-Protocol-Based Multimedia Services. Proceedings of the IEEE, 2013, 101, 1860-1881.	21.3	5
35	Experimental Analysis of the Input Variables' Relevance to Forecast Next Day's Aggregated Electric Demand Using Neural Networks. Energies, 2013, 6, 2927-2948.	3.1	31
36	Short-Term Load Forecasting for Microgrids Based on Artificial Neural Networks. Energies, 2013, 6, 1385-1408.	3.1	121

#	Article	IF	Citations
37	Improved Short-Term Load Forecasting Based on Two-Stage Predictions with Artificial Neural Networks in a Microgrid Environment. Energies, 2013, 6, 4489-4507.	3.1	35
38	Temperature and Relative Humidity Estimation and Prediction in the Tobacco Drying Process Using Artificial Neural Networks. Sensors, 2012, 12, 14004-14021.	3.8	30
39	Performance Study of the Application of Artificial Neural Networks to the Completion and Prediction of Data Retrieved by Underwater Sensors. Sensors, 2012, 12, 1468-1481.	3.8	22
40	Classification and Clustering of Electricity Demand Patterns in Industrial Parks. Energies, 2012, 5, 5215-5228.	3.1	92
41	A Semantic Autonomous Video Surveillance System for Dense Camera Networks in Smart Cities. Sensors, 2012, 12, 10407-10429.	3.8	48
42	A Method for the Detection of QoS Degradation in UMTS Networks. , 2012, , .		1
43	Telecommunications technologies for energy efficiency supported by future networks. , 2012, 50, 12-15.		1
44	Automatic UMTS system resource dimensioning based on service traffic analysis. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	4
45	User-oriented environment for management of convergent services. , 2012, 50, 142-149.		3
46	A Study of the Relationship between Weather Variables and Electric Power Demand inside a Smart Grid/Smart World Framework. Sensors, 2012, 12, 11571-11591.	3.8	139
47	Framework for intelligent service adaptation to user's context in next generation networks. , 2012, 50, 18-25.		30
48	Convergence2.0 on end user services based on telco hosted context processing. , 2011, , .		0
49	Platform for ubiquitous mobile service composition, management and delivery. , 2011, , .		0
50	Future convergent telecommunications services: creation, context, P2P, QoS, and charging [Guest Editorial]. , 2011, 49, 58-59.		2
51	User-driven context aware creation and execution of home care applications. Annales Des Telecommunications/Annals of Telecommunications, 2010, 65, 545-556.	2.5	4
52	Deployment of contextual corporate telco services based on protocol adaptation in the NGN environment. , 2010, 48, 34-40.		2
53	Management of service sessions in an NGN-SOA execution environment [Next-Generation Telco IT Architectures. , 2010, 48, 103-109.		4
54	Adjunct Enterprise Professors in the European Higher Education Area. , 2010, , .		0

#	Article	IF	Citations
55	OPUCE: A telco-driven service mash-up approach. Bell Labs Technical Journal, 2009, 14, 203-218.	0.7	11
56	Location-Aware Computing, Virtual Networks. IEEE Pervasive Computing, 2009, 8, 28-32.	1.3	5
57	Telecommunication solutions for European leadership in telecommunications [Very Large Projects]. IEEE Communications Magazine, 2009, 47, 18-20.	6.1	4
58	Future information and communication technologies [Very Large Projects. , 2009, 47, 14-19.		3
59	Applications and support technologies for mobility and enterprise services [Guest Editorial. IEEE Wireless Communications, 2009, 16, 6-7.	9.0	2
60	User-centric Service Creation and Execution. , 2009, , 273-298.		0
61	IPv6 networks over DVB-RCS satellite systems. International Journal of Satellite Communications and Networking, 2008, 26, 45-56.	1.8	4
62	Telco services for end customers: European Perspective. , 2008, 46, 14-18.		11
63	Telco services for end customers within Spanish programmes. , 2008, 46, 24-28.		5
64	Integrating User-Generated Content and Pervasive Communications. IEEE Pervasive Computing, 2008, 7, 58-61.	1.3	10
65	A user-centric service creation approach for Next Generation Networks. , 2008, , .		18
66	Overview of the SATSIX Trials. , 2008, , 271-285.		0
67	Scalable Architecture and Evaluation for Multiparty Conferencing Over Satellite Links. IEEE Journal on Selected Areas in Communications, 2004, 22, 594-605.	14.0	3
68	Multimedia Conference Services. , 2002, , .		2
69	An internetworking proposal for industrial estates: HFC networks as access solution for SMEs. , 0, , .		1
70	Link-level effect of a noisy channel over data transmission on the return path of an HFC network. , 0, , .		3
71	Voice over IP over satellite links. , 0, , .		2
72	Learning on the Move in the Web 2.0. Advances in Human and Social Aspects of Technology Book Series, 0, , 437-458.	0.3	0

#	Article	IF	Citations
73	Learning on the Move in the Web 2.0. , 0, , 1693-1714.		0