

Chris Develder

List of Publications by Year in descending order

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Version: 2024-02-01

156
papers

4,065
citations

201674

27
h-index

182427

51
g-index

160
all docs

160
docs citations

160
times ranked

2960
citing authors

#	ARTICLE	IF	CITATIONS
1	Joint entity recognition and relation extraction as a multi-head selection problem. Expert Systems With Applications, 2018, 114, 34-45.	7.6	276
2	Optimizing smart energy control strategies for plug-in hybrid electric vehicle charging. , 2010, , .		231
3	Worldwide energy needs for ICT: The rise of power-aware networking. , 2008, , .		204
4	Combining Power and Communication Network Simulation for Cost-Effective Smart Grid Analysis. IEEE Communications Surveys and Tutorials, 2014, 16, 1771-1796.	39.4	187
5	The european ist project david: a viable approach toward optical packet switching. IEEE Journal on Selected Areas in Communications, 2003, 21, 1026-1040.	14.0	177
6	Appliance classification using VI trajectories and convolutional neural networks. Energy and Buildings, 2018, 158, 32-36.	6.7	160
7	Optical Networks for Grid and Cloud Computing Applications. Proceedings of the IEEE, 2012, 100, 1149-1167.	21.3	141
8	Comprehensive feature selection for appliance classification in NILM. Energy and Buildings, 2017, 151, 98-106.	6.7	132
9	Quantitive analysis of electric vehicle flexibility: A data-driven approach. International Journal of Electrical Power and Energy Systems, 2018, 95, 451-462.	5.5	131
10	A Survey on Resiliency Techniques in Cloud Computing Infrastructures and Applications. IEEE Communications Surveys and Tutorials, 2016, 18, 2244-2281.	39.4	110
11	Adversarial training for multi-context joint entity and relation extraction. , 2018, , .		108
12	Data-centric optical networks and their survivability. IEEE Journal on Selected Areas in Communications, 2002, 20, 6-20.	14.0	104
13	Detection of unidentified appliances in non-intrusive load monitoring using siamese neural networks. International Journal of Electrical Power and Energy Systems, 2019, 104, 645-653.	5.5	83
14	Definition and Evaluation of Model-Free Coordination of Electrical Vehicle Charging With Reinforcement Learning. IEEE Transactions on Smart Grid, 2020, 11, 203-214.	9.0	74
15	Feasibility of 100% renewable energy-based electricity production for cities with storage and flexibility. Renewable Energy, 2019, 134, 698-709.	8.9	69
16	Intelligent optical networking for multilayer survivability. , 2002, 40, 42-49.		65
17	Two-Stage Load Pattern Clustering Using Fast Wavelet Transformation. IEEE Transactions on Smart Grid, 2016, 7, 2250-2259.	9.0	65
18	Integrated simulation of power and communication networks for smart grid applications. , 2011, , .		64

#	ARTICLE	IF	CITATIONS
19	An Information-Centric Communication Infrastructure for Real-Time State Estimation of Active Distribution Networks. IEEE Transactions on Smart Grid, 2015, 6, 2134-2146.	9.0	61
20	Exploiting V2G to optimize residential energy consumption with electrical vehicle (dis)charging. , 2011, , ,		58
21	On the Bayesian optimization and robustness of event detection methods in NILM. Energy and Buildings, 2017, 145, 57-66.	6.7	56
22	Multi-Granular Optical Cross-Connect: Design, Analysis, and Demonstration. Journal of Optical Communications and Networking, 2009, 1, 69.	4.8	52
23	A voltage and current measurement dataset for plug load appliance identification in households. Scientific Data, 2020, 7, 49.	5.3	50
24	Improving the utilization factor of a PEM electrolyzer powered by a 15MW PV park by combining wind power and battery storage “ Feasibility study. International Journal of Hydrogen Energy, 2018, 43, 16468-16478.	7.1	46
25	Comparison of intelligent charging algorithms for electric vehicles to reduce peak load and demand variability in a distribution grid. Journal of Communications and Networks, 2012, 14, 672-681.	2.6	45
26	Quantifying flexibility in EV charging as DR potential: Analysis of two real-world data sets. , 2016, , .		44
27	Topical Word Importance for Fast Keyphrase Extraction. , 2015, , .		40
28	Joint Dimensioning of Server and Network Infrastructure for Resilient Optical Grids/Clouds. IEEE/ACM Transactions on Networking, 2014, 22, 1591-1606.	3.8	39
29	Physics informed neural networks for control oriented thermal modeling of buildings. Applied Energy, 2022, 314, 118852.	10.1	39
30	Benchmarking and Viability Assessment of Optical Packet Switching for Metro Networks. Journal of Lightwave Technology, 2004, 22, 2435-2451.	4.6	36
31	Energy-Efficient Resource-Provisioning Algorithms for Optical Clouds. Journal of Optical Communications and Networking, 2013, 5, 226.	4.8	35
32	Energy Efficiency in integrated IT and optical network infrastructures: The GEYSERS approach. , 2011, , .		34
33	Anycast Routing for Survivable Optical Grids: Scalable Solution Methods and the Impact of Relocation. Journal of Optical Communications and Networking, 2011, 3, 767.	4.8	34
34	Multi-cost job routing and scheduling in Grid networks. Future Generation Computer Systems, 2009, 25, 912-925.	7.5	30
35	Modeling and analysis of residential flexibility: Timing of white good usage. Applied Energy, 2016, 179, 790-805.	10.1	30
36	Supervised Keyphrase Extraction as Positive Unlabeled Learning. , 2016, , .		30

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37	Satellite based fault diagnosis of photovoltaic systems using recurrent neural networks. Applied Energy, 2022, 305, 117874.	10.1	29
38	Clos lives on in optical packet switching. , 2004, 42, 114-121.		28
39	On dimensioning optical grids and the impact of scheduling. Photonic Network Communications, 2009, 17, 255-265.	2.7	28
40	Synthetic Data Generator for Electric Vehicle Charging Sessions: Modeling and Evaluation Using Real-World Data. Energies, 2020, 13, 4211.	3.1	26
41	Distributed smart charging of electric vehicles for balancing wind energy. , 2012, , .		24
42	An attentive neural architecture for joint segmentation and parsing and its application to real estate ads. Expert Systems With Applications, 2018, 102, 100-112.	7.6	23
43	Delivering scalable video with QoS to the home. Telecommunication Systems, 2012, 49, 129-148.	2.5	22
44	VI-Based Appliance Classification Using Aggregated Power Consumption Data. , 2018, , .		22
45	Handling imbalance in an extended PLAID. , 2017, , .		21
46	Routing in an AWG-Based Optical Packet Switch. Photonic Network Communications, 2003, 5, 69-80.	2.7	20
47	Assessment and mitigation of voltage violations by solar panels in a residential distribution grid. , 2011, , .		20
48	Survivable Optical Grid Dimensioning: Anycast Routing with Server and Network Failure Protection. , 2011, , .		20
49	SALSA: QoS-aware load balancing for autonomous service brokering. Journal of Systems and Software, 2010, 83, 446-456.	4.5	19
50	Resilient network dimensioning for optical grid/clouds using relocation. , 2012, , .		19
51	DWIE: An entity-centric dataset for multi-task document-level information extraction. Information Processing and Management, 2021, 58, 102563.	8.6	19
52	Scheduling Algorithms for a Slotted Packet Switch with either Fixed or Variable Length Packets. Photonic Network Communications, 2004, 8, 163-176.	2.7	18
53	Providing resiliency for optical grids by exploiting relocation: A dimensioning study based on ILP. Computer Communications, 2011, 34, 1389-1398.	5.1	18
54	Exploiting relocation to reduce network dimensions of resilient optical grids. , 2009, , .		17

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55	Architectures for smart end-user services in the power grid. , 2010, , .		17
56	Distributed multi-agent algorithm for residential energy management in smart grids. , 2012, , .		17
57	MPLS Recovery Mechanisms for IP-over-WDM Networks. Photonic Network Communications, 2001, 3, 23-40.	2.7	15
58	Design and control of optical grid networks. , 2007, , .		15
59	Improving energy efficiency in optical cloud networks by exploiting anycast routing. Proceedings of SPIE, 2011, , .	0.8	15
60	Energy-Efficient dynamic virtual network traffic engineering for north-south traffic in multi-location data center networks. Computer Networks, 2017, 125, 90-102.	5.1	15
61	Automated classification of appliances using elliptical fourier descriptors. , 2017, , .		15
62	Selecting the best locations for data centers in resilient optical grid/cloud dimensioning. , 2012, , .		14
63	DYAMAND: DYnamic, Adaptive MANagement of Networks and Devices. , 2012, , .		13
64	Power efficiency of thin clients. European Transactions on Telecommunications, 2010, 21, 479-490.	1.2	12
65	Anycast Routing Algorithms for Effective Job Scheduling in Optical Grids. , 2006, , .		11
66	Calculating the Minimum Bounds of Energy Consumption for Cloud Networks. , 2011, , .		11
67	Peak Shaving through Battery Storage for Low-Voltage Enterprises with Peak Demand Pricing. Energies, 2020, 13, 1183.	3.1	11
68	Solving arithmetic word problems by scoring equations with recursive neural networks. Expert Systems With Applications, 2021, 174, 114704.	7.6	11
69	ASTAS: Architecture for scalable and transparent anycast services. Journal of Communications and Networks, 2007, 9, 457-465.	2.6	10
70	Column Generation for Dimensioning Resilient Optical Grid Networks with Relocation. , 2010, , .		10
71	On the impact of relocation on network dimensions in resilient optical Grids.. , 2010, , .		10
72	Evaluation of Multiple Design Options for Smart Charging Algorithms. , 2011, , .		10

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73	Dynamic Virtual Network Traffic Engineering with Energy Efficiency in Multi-location Data Center Networks. , 2016, , .		10
74	Energy efficiency considerations in integrated IT and optical network resilient infrastructures. , 2011, , .		9
75	Distributed Service Provisioning Using Stateful Anycast Communications. , 2007, , .		8
76	Performance analysis and dimensioning of multi-granular optical networks. Optical Switching and Networking, 2009, 6, 88-98.	2.0	8
77	Time-varying resilient virtual network mapping for multi-location cloud data centers. , 2014, , .		8
78	Assessment of Packet Loss for an Optical Packet Router with Recirculating Buffer. IFIP Advances in Information and Communication Technology, 2003, , 247-261.	0.7	8
79	Enabling Smart Grid Applications with ICN. , 2015, , .		8
80	Reconstructing the house from the ad: Structured prediction on real estate classifieds. , 2017, , .		8
81	Analysis of an anycast based overlay system for scalable service discovery and execution. Computer Networks, 2010, 54, 97-111.	5.1	7
82	Exploiting user disagreement for web search evaluation. , 2014, , .		7
83	Knowledge base population using semantic label propagation. Knowledge-Based Systems, 2016, 108, 79-91.	7.1	7
84	Predicting relevance based on assessor disagreement: analysis and practical applications for search evaluation. Information Retrieval, 2016, 19, 284-312.	2.0	7
85	Creation and evaluation of large keyphrase extraction collections with multiple opinions. Language Resources and Evaluation, 2018, 52, 503-532.	2.7	7
86	Reduced state space and cost function in reinforcement learning for demand response control of multiple EV charging stations. , 2019, , .		7
87	Erlang Reduced Load Model for Optical Burst Switched Grids. , 2007, , .		6
88	Large-scale residential demand response ICT architecture. , 2014, , .		6
89	Achieving Scalable Model-Free Demand Response in Charging an Electric Vehicle Fleet with Reinforcement Learning. , 2018, , .		6
90	Investigating the need for real time measurements in industrial wind power systems combined with battery storage. Applied Energy, 2019, 247, 559-571.	10.1	6

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91	Defining a synthetic data generator for realistic electric vehicle charging sessions. , 2020, , .		6
92	Mean Field Calculation for Optical Grid Dimensioning. Journal of Optical Communications and Networking, 2010, 2, 355.	4.8	5
93	Automatic provisioning of end-to-end QoS into the home. IEEE Transactions on Consumer Electronics, 2011, 57, 1670-1678.	3.6	5
94	Isolation and resource efficiency of virtual optical networks. , 2012, , .		5
95	Automatic fine-grained area detection for thin client systems. Journal of Network and Computer Applications, 2012, 35, 1620-1632.	9.1	5
96	OMUS: an optimized multimedia service for the home environment. Multimedia Tools and Applications, 2014, 72, 281.	3.9	5
97	Resilience options for provisioning anycast cloud services with virtual optical networks. , 2014, , .		5
98	NCP+: An integrated network and IT control plane for cloud computing. Optical Switching and Networking, 2014, 11, 137-152.	2.0	5
99	The GEYSERS optical testbed: A platform for the integration, validation and demonstration of cloud-based infrastructure services. Computer Networks, 2014, 61, 197-216.	5.1	5
100	Optimized statistical test for event detection in non-intrusive load monitoring. , 2017, , .		5
101	What Snippets Say about Pages in Federated Web Search. Lecture Notes in Computer Science, 2012, , 250-261.	1.3	5
102	Energy Efficiency in Thin Client Solutions. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 109-116.	0.3	5
103	Dimensioning of combined OBS/OCS networks. , 2008, , .		4
104	Anycast end-to-end resilience for cloud services over virtual optical networks. , 2013, , .		4
105	Economic evaluation of active network management alternatives for congestion avoidance — the DSO perspective. , 2014, , .		4
106	Exploiting road traffic data for Very short term load forecasting in Smart Grids. , 2014, , .		4
107	Bayesian cylindrical data modeling using Abeâ€™Ley mixtures. Applied Mathematical Modelling, 2019, 68, 629-642.	4.2	4
108	Snippet-Based Relevance Predictions for Federated Web Search. Lecture Notes in Computer Science, 2013, , 697-700.	1.3	4

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109	Real-world user flexibility of energy consumption. , 2016, , .		4
110	Transparent resource sharing framework for internet services on handheld devices. Annales Des Telecommunications/Annals of Telecommunications, 2010, 65, 419-432.	2.5	3
111	Intelligent distributed multimedia collection: Content aggregation and integration. , 2011, , .		3
112	Dimensioning backbone networks for multi-site data centers: Exploiting anycast routing for resilience. , 2015, , .		3
113	Supporting development and management of smart office applications: A DYAMAND case study. , 2015, , .		3
114	Deploying the ICT architecture of a residential demand response pilot. , 2015, , .		3
115	Remote Management of a Large Set of Heterogeneous Devices Using Existing IoT Interoperability Platforms. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 450-461.	0.3	3
116	Programmable Multi-Granular Optical Networks: Requirements and Architecture. , 2009, , .		3
117	GMPLS extensions for supporting advanced optical networking technologies. , 0, , .		2
118	Routing Strategies to Minimize Packet Loss in an Optical Packet Switched Network with Recirculating FDL Buffers. Photonic Network Communications, 2004, 7, 279-300.	2.7	2
119	Framework for Ubiquitous Discovery and Access to Home Services. , 2009, , .		2
120	Design and evaluation of an architecture for future smart grid service provisioning. , 2012, , .		2
121	Platform for real-time subjective assessment of interactive multimedia applications. Multimedia Tools and Applications, 2014, 72, 749.	3.9	2
122	Editorial: IEEE Communications Surveys & Tutorials - Special Section on Energy and Smart Grid. IEEE Communications Surveys and Tutorials, 2014, 16, 1687-1688.	39.4	2
123	A scalable model for multi-period virtual network mapping for resilient multi-site data centers. , 2015, , .		2
124	When Topic Models Disagree. , 2015, , .		2
125	Design and Experimental Validation of an LTE-Based Synchrophasor Network in a Medium Voltage Distribution Grid. , 2018, , .		2
126	Deflection routing in anycast-based OBS Grids. , 2009, , .		2

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127	Analytical MMAP-Based Bounds for Packet Loss in Optical Packet Switching with Recirculating FDL Buffers. Photonic Network Communications, 2004, 8, 149-161.	2.7	1
128	Cost-Effective Burst-Over-Circuit-Switching in a Hybrid Optical Network. , 2009, , .		1
129	Design of a Context Aware Multimedia Management System for Home Environments. , 2009, , .		1
130	An analytical model of the service provisioning time within the harmony network service plane. , 2010, , .		1
131	Integrating personal media and Digital TV with QoS guarantees using virtualized set-top boxes: Architecture and performance measurements. , 2010, , .		1
132	Bandwidth reservations in home networks: Performance assessment of UPnP-QoS V3. , 2010, , .		1
133	Design and implementation of a simulation environment for network virtualization. , 2011, , .		1
134	Infrastructure for collaborating data-researchers in a Smart Grid pilot. , 2012, , .		1
135	Anycast (re)routing of multi-period traffic in dimensioning resilient backbone networks for multi-site data centers. , 2016, , .		1
136	Using topology information for quality-aware Peer-to-Peer multilayer video streaming. International Journal of Communication Systems, 2016, 29, 1620-1644.	2.5	1
137	Modeling Real-World Flexibility of Residential Power Consumption. , 2018, , .		1
138	Assessing Quality of Unsupervised Topics in Song Lyrics. Lecture Notes in Computer Science, 2014, , 547-552.	1.3	1
139	Dimensioning Resilient Optical Grid/Cloud Networks. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 73-106.	0.5	1
140	Ranking Deep Web Text Collections for Scalable Information Extraction. , 2015, , .		1
141	Influence of GMPLS Recovery Mechanisms on TCP Performance. Photonic Network Communications, 2002, 4, 321-343.	2.7	0
142	Upgrade scenarios for OPS networks. , 0, , .		0
143	Scalable Impairment-Aware Anycast Routing in Multi-Domain Optical Grid Networks. , 2008, , .		0
144	Dimensioning of multi-granular optical networks. , 2008, , .		0

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145	Trust as Differentiator for Value-Adding Home Service Providers. , 2009, , .		0
146	Dimensioning resilient optical grids. , 2009, , .		0
147	DLNA interworking for virtualized set-top-boxes. , 2010, , .		0
148	Converged IT and optical network virtualisation: The last (clean-)step towards the Future Internet infrastructure management. , 2012, , .		0
149	On the robustness of event detection evaluation. , 2015, , .		0
150	Entity Linking. , 2015, , .		0
151	Energy flexibility assessment of an industrial coldstore process. , 2016, , .		0
152	Charging Electric Vehicles in the Smart Grid. Power Systems, 2016, , 147-161.	0.5	0
153	Exploring the Benefit of Rerouting Multi-Period Traffic to Multi-Site Data Centers [Invited]. Journal of Optical Communications and Networking, 2017, 9, C25.	4.8	0
154	Exploration of block-wise dynamic sparseness. Pattern Recognition Letters, 2021, 151, 187-192.	4.2	0
155	Topic 13: High Performance Network and Communication. Lecture Notes in Computer Science, 2012, , 700-700.	1.3	0
156	Resilient backbone networks for multi-site data centers: Exploiting anycast (re)routing for multi-period traffic. , 2016, , .		0