

Andreas Pitsillides

List of Publications by Year in descending order

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91
papers

2,354
citations

516710

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g-index

94
all docs

94
docs citations

94
times ranked

2103
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Wireless Communication Paradigm through Software-Controlled Metasurfaces. IEEE Communications Magazine, 2018, 56, 162-169.	6.1	799
2	Mobile Phone Computing and the Internet of Things: A Survey. IEEE Internet of Things Journal, 2016, 3, 885-898.	8.7	169
3	Toward Intelligent Metasurfaces: The Progress from Globally Tunable Metasurfaces to Software-Defined Metasurfaces with an Embedded Network of Controllers. Advanced Optical Materials, 2020, 8, 2000783.	7.3	145
4	Broadening Understanding on Managing the Communication Infrastructure in Vehicular Networks: Customizing the Coverage Using the Delta Network. Future Internet, 2019, 11, 1.	3.8	98
5	Design and Development of Software Defined Metamaterials for Nanonetworks. IEEE Circuits and Systems Magazine, 2015, 15, 12-25.	2.3	84
6	A novel communication paradigm for high capacity and security via programmable indoor wireless environments in next generation wireless systems. Ad Hoc Networks, 2019, 87, 1-16.	5.5	80
7	Realizing Wireless Communication Through Software-Defined HyperSurface Environments. , 2018, , .		70
8	Computing and Communications for the Software-Defined Metamaterial Paradigm: A Context Analysis. IEEE Access, 2017, 5, 6225-6235.	4.2	62
9	Speed Adaptive Probabilistic Flooding for Vehicular Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 1973-1990.	6.3	48
10	Distributed Artificial Intelligence Solution for D2D Communication in 5G Networks. IEEE Systems Journal, 2020, 14, 4232-4241.	4.6	48
11	HomeWeb: An application framework for Web-based smart homes. , 2011, , .		47
12	Complex Systems: A Communication Networks Perspective Towards 6G. IEEE Access, 2020, 8, 89007-89030.	4.2	46
13	On the Network-Layer Modeling and Configuration of Programmable Wireless Environments. IEEE/ACM Transactions on Networking, 2019, 27, 1696-1713.	3.8	41
14	Exploration of Intercell Wireless Millimeter-Wave Communication in the Landscape of Intelligent Metasurfaces. IEEE Access, 2019, 7, 122931-122948.	4.2	41
15	An Interpretable Neural Network for Configuring Programmable Wireless Environments. , 2019, , .		41
16	Social networking of the Smart Home. , 2010, , .		33
17	End-to-End Wireless Path Deployment With Intelligent Surfaces Using Interpretable Neural Networks. IEEE Transactions on Communications, 2020, 68, 6792-6806.	7.8	21
18	Modeling Probabilistic Flooding in VANETs for Optimal Rebroadcast Probabilities. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 556-570.	8.0	19

#	ARTICLE	IF	CITATIONS
19	Joint Compressed Sensing and Manipulation of Wireless Emissions with Intelligent Surfaces. , 2019, , .		19
20	Active Control of THz Waves in Wireless Environments Using Graphene-Based RIS. IEEE Transactions on Antennas and Propagation, 2022, 70, 8785-8797.	5.1	18
21	Balancing Wireless Data Broadcasting and Information Hovering for Efficient Information Dissemination. IEEE Transactions on Broadcasting, 2012, 58, 66-76.	3.2	17
22	Harvested Energy Prediction Schemes for Wireless Sensor Networks: Performance Evaluation and Enhancements. Wireless Communications and Mobile Computing, 2017, 2017, 1-14.	1.2	16
23	Software-Defined Reconfigurable Intelligent Surfaces: From Theory to End-to-End Implementation. Proceedings of the IEEE, 2022, 110, 1466-1493.	21.3	15
24	Adaptive probabilistic flooding for Information Hovering in VANETs. , 2010, , .		14
25	Exploring the use of DNS as a search engine for the Web of Things. , 2014, , .		14
26	Lessons Learned from Online Social Networking of Physical Things. , 2011, , .		13
27	Fault Adaptive Routing in Metasurface Controller Networks. , 2018, , .		13
28	Switched-Beam Graphene Plasmonic Nanoantenna in the Terahertz Wave Region. Plasmonics, 2021, 16, 1855-1864.	3.4	13
29	Wideband Perfect Absorption Polarization Insensitive Reconfigurable Graphene Metasurface for THz Wireless Environment. , 2019, , .		12
30	A novel protocol for network-controlled metasurfaces. , 2017, , .		12
31	The MicroPulse Framework for Adaptive Waking Windows in Sensor Networks. , 2007, , .		10
32	Adaptive Feedback Algorithm for Internet Video Streaming based on Fuzzy Rate Control. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	10
33	Employing the flocking behavior of birds for controlling congestion in autonomous decentralized networks. , 2009, , .		10
34	Gamma Deployment: Designing the Communication Infrastructure in Vehicular Networks Assuring Guarantees on the V2I Inter-Contact Time. , 2016, , .		10
35	CelEc framework for reconfigurable small cells as part of 5G ultra-dense networks. , 2017, , .		10
36	Selection of UE-based Virtual Small Cell Base Stations using Affinity Propagation Clustering. , 2018, , .		10

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37	From hot-spots towards experience-spots: Leveraging on users' sociocultural experiences to enhance security in cued-recall graphical authentication. International Journal of Human Computer Studies, 2021, 149, 102602.	5.6	10
38	A novel Distributed AI framework with ML for D2D communication in 5G/6G networks. Computer Networks, 2022, 211, 108987.	5.1	10
39	A New Estimation Scheme for the Effective Number of Users in Internet Congestion Control. IEEE/ACM Transactions on Networking, 2011, 19, 1499-1512.	3.8	9
40	Broadcast Scheduling With Multiple Concurrent Costs. IEEE Transactions on Broadcasting, 2012, 58, 178-186.	3.2	9
41	3D Channel Modeling and Characterization for Hypersurface Empowered Indoor Environment at 60 GHz Millimeter-Wave Band. , 2019, , .		9
42	Extremum Seeking Control for Beam Steering using Hypersurfaces. , 2020, , .		9
43	Power counting for optimized capacity in MBMS enabled UTRAN. , 2008, , .		8
44	A Web of Things based eco-system for urban computing - towards smarter cities. , 2017, , .		8
45	Speed Adaptive Probabilistic Flooding for vehicular ad-hoc networks. , 2011, , .		7
46	A Decentralized Approach for Self-Coexistence Among Heterogeneous Networks in TVWS. IEEE Transactions on Vehicular Technology, 2018, 67, 1302-1312.	6.3	7
47	The impact of remote sensing on the everyday lives of mobile users in urban areas. , 2014, , .		6
48	On the Use of Programmable Metasurfaces in Vehicular Networks. , 2021, , .		6
49	Queue Length Based Internet Congestion Control. , 2007, , .		5
50	A new approach for efficient MBMS service provision in UTRAN. , 2008, , .		5
51	Information Hovering in Vehicular Ad-Hoc Networks. , 2009, , .		5
52	Mimicking the bird flocking behavior for controlling congestion in sensor networks. , 2010, , .		5
53	Frequency-domain characterization of Singular Spectrum Analysis eigenvectors. , 2016, , .		5
54	Feedback Based Beam Steering for Intelligent Metasurfaces. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
55	Realizing Ambient Backscatter Communications with Intelligent Surfaces in 6G Wireless Systems. IEEE Wireless Communications, 2022, 29, 178-185.	9.0	5
56	MBMS Handover Control for Efficient Multicasting in IP-Based 3G Mobile Networks. , 2006, , .		4
57	A game theory-based approach to reducing interference in dense deployments of home wireless networks. , 2011, , .		4
58	Adaptive probabilistic flooding for nanonetworks employing molecular communication. , 2016, , .		4
59	Analysis of probabilistic flooding in VANETs for optimal rebroadcast probabilities. , 2016, , .		4
60	Toward Fault-Tolerant Deadlock-Free Routing in HyperSurface-Embedded Controller Networks. IEEE Networking Letters, 2020, 2, 140-144.	1.9	4
61	Advanced Physical-layer Security as an App in Programmable Wireless Environments. , 2020, , .		4
62	Concentration Gradient based Routing for Molecular Nanonetworks. , 2020, , .		4
63	Solutions for the Deployment of Communication Roadside Infrastructure for Streaming Delivery in Vehicular Networks. Journal of Network and Systems Management, 2021, 29, 1.	4.9	4
64	Next Generation Connected Materials for Intelligent Energy Propagation in Multiphysics Systems. IEEE Communications Magazine, 2021, 59, 100-106.	6.1	4
65	Dynamic D2D Communication in 5G/6G Using a Distributed AI Framework. IEEE Access, 2022, 10, 62772-62799.	4.2	4
66	Hybrid CAC for MBMS-Enabled 3G UMTS Networks. , 2006, , .		3
67	ADIVIS: A Novel Adaptive Algorithm for Video Streaming over the Internet. , 2007, , .		3
68	Handover Control in MBMS Enabled 3G Mobile Cellular Networks. , 2007, , .		3
69	An enhanced approach for efficient MBMS handovers in 3G networks. , 2008, , .		3
70	Vulnerability assessment of intrusion recovery countermeasures in wireless sensor networks. , 2011, , .		3
71	Combating persistent adversaries in wireless sensor networks using directional antennas. , 2011, , .		3
72	WSN operability during persistent attack execution. , 2016, , .		3

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73	Adaptive optimization for active queue management supporting TCP flows. , 2016, , .		3
74	Adaptive Probabilistic Flooding for Information Hovering in VANETs. Journal of Sensor and Actuator Networks, 2020, 9, 29.	3.9	3
75	Using UE-VBS for dynamic virtual small cells deployment and backhauling in 5G Ultra-Dense networks. Computer Networks, 2021, 189, 107926.	5.1	3
76	Performance Evaluation of Transmission Mode Selection in D2D communication. , 2021, , .		3
77	Minimizing interference in unmanaged environments of densely deployed wireless access points using a graphical game model. , 2012, , .		2
78	Adaptive information hovering in VANETs: Robustness and enhancements. , 2013, , .		2
79	Recovering from the selective forwarding attack in WSNs - enhancing the recovery benefits of blacklisting and rerouting using directional antennas. , 2014, , .		2
80	Eye Gaze and Interaction Differences of Holistic Versus Analytic Users in Image-Recognition Human Interaction Proof Schemes. Lecture Notes in Computer Science, 2021, , 66-75.	1.3	2
81	A distributed AI/ML framework for D2D Transmission Mode Selection in 5G and beyond. Computer Networks, 2022, 210, 108964.	5.1	2
82	A NEHO based MBMS Handover Control approach. , 2008, , .		1
83	An enhanced radio resource allocation approach for efficient MBMS service provision in UTRAN. , 2008, , .		1
84	An enhanced MBMS service provision approach for improved performance in UTRAN. , 2011, , .		1
85	Cooperation among access points for enhanced quality of service in dense wireless environments. , 2014, , .		1
86	Nature Inspired Node Density Estimation for Molecular NanoNetworks. , 2016, , .		1
87	Situation aware intrusion recovery policy in WSNs. , 2016, , .		1
88	A Comparative Study among Different Computer Vision Algorithms for Assisting Users in Picture Password Composition. , 2021, , .		1
89	5G D2D Transmission Mode Selection Performance & Cluster Limits Evaluation of Distributed AI and ML Techniques. , 2021, , .		1
90	The Importance of Adaptive Applications in Mobile Wireless Networks. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
91	Privacy concerns in sharing personal consumption data through online applications. , 2016, , .		0