

Daniel Franklin

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

840
citations

933447

10
h-index

580821

25
g-index

81
all docs

81
docs citations

81
times ranked

966
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comparative Survey of VANET Clustering Techniques. IEEE Communications Surveys and Tutorials, 2017, 19, 657-681.	39.4	361
2	BrachyView, a novel in-body imaging system for HDR prostate brachytherapy: Experimental evaluation. Medical Physics, 2015, 42, 7098-7107.	3.0	29
3	Opportunistic dose amplification for proton and carbon ion therapy via capture of internally generated thermal neutrons. Scientific Reports, 2018, 8, 16257.	3.3	26
4	Multihop Relay Techniques for Communication Range Extension in Near-Field Magnetic Induction Communication Systems. Journal of Networks, 2013, 8, .	0.4	20
5	A survey on control separation techniques in multi-radio multi-channel MAC protocols. , 2007, , .		18
6	A Monte Carlo simulation study of the impact of novel scintillation crystals on performance characteristics of PET scanners. Physica Medica, 2018, 50, 37-45.	0.7	17
7	Optimisation of monolithic nanocomposite and transparent ceramic scintillation detectors for positron emission tomography. Scientific Reports, 2020, 10, 1409.	3.3	17
8	Optimised relay selection for route discovery in reactive routing. Ad Hoc Networks, 2013, 11, 70-88.	5.5	15
9	Studying the Impact of the CORNER Propagation Model on VANET Routing in Urban Environments. , 2012, , .		14
10	BrachyView, A novel inbody imaging system for HDR prostate brachytherapy: Design and Monte Carlo feasibility study. Medical Physics, 2013, 40, 071715.	3.0	13
11	A new virtual ring-based system matrix generator for iterative image reconstruction in high resolution small volume PET systems. Physics in Medicine and Biology, 2015, 60, 6949-6973.	3.0	12
12	Unbalanced Hybrid AOA/RSSI Localization for Simplified Wireless Sensor Networks. Sensors, 2020, 20, 3838.	3.8	12
13	A validated Geant4 model of a whole-body PET scanner with four-layer DOI detectors. Physics in Medicine and Biology, 2020, 65, 235051.	3.0	12
14	Analytic Performance Model for State-Based MAC Layer Cooperative Retransmission Protocols. IEEE Transactions on Mobile Computing, 2016, 15, 32-44.	5.8	11
15	Boundary node selection algorithms in WSNs. , 2011, , .		10
16	Three-dimensional dosimetry imaging of I-125 plaque for eye cancer treatment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S276-S278.	1.6	10
17	Radiation dose enhancement at tissue-tungsten interfaces in HDR brachytherapy. Physics in Medicine and Biology, 2014, 59, 6659-6659.	3.0	10
18	Comparative study of alternative Geant4 hadronic ion inelastic physics models for prediction of positron-emitting radionuclide production in carbon and oxygen ion therapy. Physics in Medicine and Biology, 2019, 64, 155014.	3.0	10

#	ARTICLE	IF	CITATIONS
19	An efficient opportunistic cooperative diversity protocol for IEEE 802.11 networks. , 2010, , .		9
20	A Survey and Comparison of Device-to-Device Architecture Using LTE Unlicensed Band. , 2017, , .		9
21	Analysis of Effective Capacity and Throughput of Polling-Based Device-To-Device Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 8656-8666.	6.3	9
22	An Evaluation of CNN-based Liver Segmentation Methods using Multi-types of CT Abdominal Images from Multiple Medical Centers. , 2019, , .		9
23	Energy-Harvesting Aided Unmanned Aerial Vehicles for Reliable Ground User Localization and Communications Under Lognormal-Nakagami- m Fading Channels. IEEE Transactions on Vehicular Technology, 2021, 70, 1632-1647.	6.3	9
24	Hybrid TOA/AOA Localization with 1D Angle Estimation in UAV-assisted WSN. , 2020, , .		9
25	A Tuned Fuzzy Logic Relocation Model in WSNs Using Particle Swarm Optimization. , 2013, , .		8
26	Monte Carlo investigation of the characteristics of radioactive beams for heavy ion therapy. Scientific Reports, 2019, 9, 6537.	3.3	8
27	Improving fairness in IEEE 802.11 networks using MAC layer opportunistic retransmission. Computer Networks, 2013, 57, 3410-3427.	5.1	7
28	Experimental validation of the CORNER urban propagation model based on signal power measurements in a vehicular environment. , 2013, , .		7
29	Minimisation of video downstream bit rate for large scale immersive video conferencing by utilising the perceptual variations of quality. , 2014, , .		7
30	Dose quantification in carbon ion therapy using in-beam positron emission tomography. Physics in Medicine and Biology, 2020, 65, 235052.	3.0	7
31	Feasibility study on the implementation of IEEE 802.11 on cloud-based radio over fibre architecture. , 2014, , .		6
32	Analytical Modelling and Simulation of Single and Double Cone Pinholes for Real-Time In-Body Tracking of an HDR Brachytherapy Source. IEEE Transactions on Nuclear Science, 2016, 63, 1375-1385.	2.0	6
33	Experimental investigation of the characteristics of radioactive beams for heavy ion therapy. Medical Physics, 2020, 47, 3123-3132.	3.0	6
34	Characterising the Behaviour of IEEE 802.11 Broadcast Transmissions in Ad Hoc Wireless LANs. , 2009, , .		5
35	Outage probability of multihop relay networks. , 2013, , .		5
36	Large-scale immersive video conferencing by altering video quality and distribution based on the virtual context. , 2014, 52, 66-72.		5

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37	A geometrical sink-based cooperative coverage hole recovery strategy for WSNs. , 2015, , .		5
38	Scalable MAC protocol for D2D communication for future 5G networks. , 2017, , .		5
39	PCF-Based LTE Wi-Fi Aggregation for Coordinating and Offloading the Cellular Traffic to D2D Network. IEEE Transactions on Vehicular Technology, 2018, 67, 12193-12203.	6.3	5
40	A Monte Carlo simulation study of scatter fraction and the impact of patient BMI on scatter in long axial field-of-view PET scanners. Zeitschrift Fur Medizinische Physik, 2021, 31, 305-315.	1.5	5
41	Characterising the Interactions Between Unicast and Broadcast in IEEE 802.11 Ad Hoc Networks. , 2008, , .		4
42	Evaluation of Silicon Detectors With Integrated JFET for Biomedical Applications. IEEE Transactions on Nuclear Science, 2009, 56, 1051-1055.	2.0	4
43	On the Error Exponent of Amplify and Forward Relay Networks. IEEE Communications Letters, 2011, 15, 1047-1049.	4.1	4
44	Distributed Area of Interest Management for Large-Scale Immersive Video Conferencing. , 2012, , .		4
45	A fuzzy logic node relocation model in WSNs. , 2012, , .		4
46	Utility-based resource allocation for interference limited OFDMA cooperative relay networks. Physical Communication, 2016, 20, 74-84.	2.1	4
47	A Study of User Perception of the Quality of Video Content Rendered Inside a 3-D Virtual Environment. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 125-137.	10.8	4
48	A Case Study for Choosing Proper Relocation Algorithms to Recover Large Scale Coverage Hole(s) in Wireless Sensor Networks. , 0, , .		4
49	Detection and discrimination of neutron capture events for NCEPT dose quantification. Scientific Reports, 2022, 12, 5863.	3.3	4
50	On Indoor Multi-hopping capacity of Wireless Ad-Hoc Mesh Networks. , 2007, , .		3
51	Preclinical studies using a prototype high-resolution PET system with Depth of Interaction. , 2011, , .		3
52	Simulation of Contrasting Clustering Paradigms under an Experimentally-Derived Channel Model. , 2014, , .		3
53	Paganini-a music analysis and recognition program. , 0, , .		2
54	OLSR-R<sup>3</sup></sup>: Optimised link state routing with reactive route recovery. , 2009, , .		2

#	ARTICLE	IF	CITATIONS
55	Implementation of opportunistic cooperative diversity in an Ad-Hoc network using commodity hardware. , 2012, , .		2
56	SEP of Multihop Relay Networks in Nakagami-m Fading Channels. , 2013, , .		2
57	A feasibility study of PETiPIX: an ultra high resolution small animal PET scanner. Journal of Instrumentation, 2013, 8, P12004-P12004.	1.2	2
58	Dynamic Environmental Fading in Urban VANETs. , 2014, , .		2
59	An improved channel model for ADSL and VDSL systems. , 0, , .		1
60	An Experiment of Control-theoretical Model in Dynamic Portfolio Management. , 2007, , .		1
61	On Separating Route Control and Data Flows in Multi-radio Multi-hop Ad Hoc Network. Networks, 2008 ICON 2008 16th IEEE International Conference on, 2007, , .	0.0	1
62	SiPM based detector module and digital data acquisition system for PET: Initial results. , 2009, , .		1
63	An iteratively tuned fuzzy logic movement model in WSN using particle swarm optimization. , 2013, , .		1
64	A general performance model for MAC layer cooperative retransmission contention protocols. , 2013, including general environmental effects in $\langle \text{mml:math altimg="si11.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co$		1
65		2.1	1
66	Cooperative recovery of coverage holes in WSNs via disjoint spanning trees. , 2017, , .		1
67	Effect of the number of participating nodes on recovery of WSN coverage holes. , 2017, , .		1
68	Leveraging the Propagation Model to Make Greedy Routing Decisions in Urban Environments. , 2017, , .		1
69	Characterization of the scatter component in large axial field-of-view PET scanners: a Monte Carlo simulation study. , 2018, , .		1
70	A simulation study of BrachyShade, a shadow-based internal source tracking system for HDR prostate brachytherapy. Physics in Medicine and Biology, 2018, 63, 205019.	3.0	1
71	Localisation of the Lines of Response in a Continuous Cylindrical Shell PET Scanner. , 2019, 2019, 4844-4850.		1
72	Efficiently compressing 3D medical images for teleinterventions via CNNs and anisotropic diffusion. Medical Physics, 2021, 48, 2877-2890.	3.0	1

#	ARTICLE	IF	CITATIONS
73	Automatic scan range for dose-reduced multiphase CT imaging of the liver utilizing CNNs and Gaussian models. Medical Image Analysis, 2022, 78, 102422.	11.6	1
74	A new channel model for ADSL and VDSL systems. , 0, , .		0
75	Development and performance evaluation of a flexible, low cost MANET. , 2008, , .		0
76	End-to-End path stability of reactive routing protocols in IEEE 802.11 ad hoc networks. , 2009, , .		0
77	On the impact of RD link in resource allocation for multi-cell OFDMA cooperative relay networks with partial CSI. , 2012, , .		0
78	Design and development of PETiPIX: An ultra high spatial resolution small animal PET scanner. , 2013, , .		0
79	Brachyview: An in-body imaging system for real-time QA in HDR prostate brachytherapy. , 2013, , .		0
80	NFMIC Cooperative Communication Methods for Body Area Networks. Journal of Networks, 2012, 7, .	0.4	0