

Alistair Duffy

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

1,267
citations

13
h-index

33
g-index

118
ext. papers

1,488
ext. citations

2
avg, IF

4.1
L-index

#	Paper	IF	Citations
93	The Effect of the Ring Mains Units for On-Line Partial Discharge Location With Time Reversal in Medium Voltage Networks. <i>IEEE Access</i> , 2022 , 10, 33844-33854	3.5	0
92	Announcing the Newly Elected IEEE Division IV Director!. <i>IEEE Electromagnetic Compatibility Magazine</i> , 2021 , 10, 13-13	0.4	
91	On-Line Partial Discharge Localization in Power Cables Based on Electromagnetic Time Reversal Theory - Numerical Validation. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	3
90	Electromagnetic Time Reversal Method to Locate Partial Discharges in Power Networks Using 1D TLM Modelling. <i>IEEE Letters on EMC Practice and Applications</i> , 2021 , 3, 24-28	0.5	5
89	. <i>IEEE Letters on EMC Practice and Applications</i> , 2021 , 3, 78-81	0.5	
88	Application to Real Power Networks of a Method to Locate Partial Discharges Based on Electromagnetic Time Reversal. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	3
87	Towards Modeling Partial Discharge Phenomena and Propagation in Power Networks Using the Transmission-Line Matrix Method. <i>Energies</i> , 2021 , 14, 689	3.1	2
86	Design, simulation, and fabrication of a double annular ring microstrip antenna based on gaps with multiband feature 2021 , 29, 101033-101033		1
85	. <i>IEEE Letters on EMC Practice and Applications</i> , 2020 , 2, 53-61	0.5	1
84	FSV: State of the art and current research fronts. <i>IEEE Electromagnetic Compatibility Magazine</i> , 2020 , 9, 55-62	0.4	0
83	Validation of a non-contact technique for torque measurements in wind turbines using an enhanced transient FSV approach. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 151, 107261	4.6	5
82	Selection of Dominant Characteristic Modes. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 451-460	2	7
81	Electromagnetic Risk Analysis for EMI Impact on Functional Safety With Probabilistic Graphical Models and Fuzzy Logic. <i>IEEE Letters on EMC Practice and Applications</i> , 2020 , 2, 96-100	0.5	1
80	Infra-red thermal measurement on a low-power infra-red emitter in CMOS technology. <i>IET Science, Measurement and Technology</i> , 2019 , 13, 25-28	1.5	2
79	Using Image Quality Assessment (IQA) Databases to Provide an Appraisal of the Ability of the Feature Selective Validation Method (FSV) to Compare Two-Dimensional Datasets. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 890-898	2	1
78	Notice of Retraction: Review of the Feature Selective Validation Method (FSV). Part III theory. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 814-821	2	23
77	Dimension-Reduced Sparse Grid Strategy for a Stochastic Collocation Method in EMC Software. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 218-224	2	7

76	Optimization of reflection coefficient in ring resonator add/drop filters. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2017 , 30, e2080	1	1
75	Standalone closed-form formula for the throughput rate of asynchronous normally distributed serial flow lines. <i>Journal of Manufacturing Systems</i> , 2017 , 43, 117-128	9.1	2
74	Notice of Retraction: Statistical Figures of Merit for the Feature Selective Validation Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 1482-1489	2	3
73	Comparison of Three-Dimensional Datasets by Using the Generalized n-Dimensional (n-D) Feature Selective Validation (FSV) Technique. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 103-110	1.1	8
72	Internal stirring: an approach to approximate evaluation of shielding effectiveness of small slotted enclosures. <i>IET Science, Measurement and Technology</i> , 2016 , 10, 659-664	1.5	4
71	Parameter for near end crosstalk prediction in twisted pair cables 2016 ,		3
70	Comparison of Data With Multiple Degrees of Freedom Utilizing the Feature Selective Validation Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016 , 58, 784-791	2	9
69	A preliminary study of the influence of experiential backgrounds of respondents to a reference survey for verification of FSV 2016 ,		2
68	Performance Comparison of the SGM and the SCM in EMC Simulation. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016 , 58, 1739-1746	2	12
67	Crosstalk bandwidth of grating-assisted ring resonator add/drop filter. <i>Optical and Quantum Electronics</i> , 2015 , 47, 1127-1137	2.4	2
66	Impact of noise and interference on probabilistic broadcast schemes in mobile ad-hoc networks. <i>Computer Networks</i> , 2015 , 88, 178-186	5.4	4
65	Estimation of the Bandwidth of Acceptable Crosstalk of Parallel Coupled Ring Resonator Add/Drop Filters. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1005-1012	2	6
64	Applying the Analytic Hierarchy Process (AHP) to an FSV-Based Comparison of Multiple Datasets. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 477-483	2	7
63	Efficient broadcasting for route discovery in Mobile Ad-hoc Networks 2015 ,		2
62	The Feature Selective Validation Technique as Analysis Tool for Shielding Effectiveness of Slotted Enclosures. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1472-1480	2	3
61	Uncertainty analysis in EMC simulation based on Stochastic Collocation Method 2015 ,		3
60	Crosstalk suppression bandwidth optimisation of a vertically coupled ring resonator add/drop filter. <i>IET Optoelectronics</i> , 2015 , 9, 30-36	1.5	5
59	2015 ,		1

58	Objective Selection of Minimum Acceptable Mesh Refinement for EMC Simulations. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1266-1269	2	4
57	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 825-834	2	17
56	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 817-824	2	4
55	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 800-807	2	10
54	Over Coupled Ring Resonator-Based Add/Drop Filters. <i>IEEE Journal of Quantum Electronics</i> , 2014 , 50, 598-604	2	11
53	Electromagnetic Monitoring of Semiconductor Ageing. <i>Procedia CIRP</i> , 2014 , 22, 98-102	1.8	0
52	Compact Microstrip Antenna Structures with Multiband, Broadband, and Band-Notched Properties, for Portable Devices. <i>International Journal of Antennas and Propagation</i> , 2014 , 2014, 1-1	1.2	
51	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 746-749	2	2
50	Modeling Thermal Radiation Effects in Nanowires Using the TLM Method. <i>IEEE Nanotechnology Magazine</i> , 2013 , 12, 1118-1124	2.6	0
49	. <i>IEEE Transactions on Consumer Electronics</i> , 2013 , 59, 515-520	4.8	5
48	Investigating Confidence Histograms and Classification in FSV: Part II-Float FSV. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2013 , 55, 925-932	2	5
47	Improvement in the Definition of ODM for FSV. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2013 , 55, 773-779	2	9
46	Investigating Confidence Histograms and Classification in FSV: Part I. Fuzzy FSV. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2013 , 55, 917-924	2	4
45	Effect of physical and virtual carrier sensing on the AODV routing protocol in noisy MANETs 2013 ,		2
44	Development of next generation FSV tools and standards 2012 ,		4
43	The use of probability density functions to improve the interpretation of FSV results 2012 ,		3
42	Applying a behavioural and operational diagnostic typology of competitive intelligence practice: empirical evidence from the SME sector in Turkey. <i>Journal of Strategic Marketing</i> , 2012 , 20, 19-33	2.7	21
41	EMC Society standards on the Web. <i>IEEE Electromagnetic Compatibility Magazine</i> , 2012 , 1, 99-102	0.4	

40	The prediction of the electric field level in the reverberation chamber depending on position of stirrer. <i>Expert Systems With Applications</i> , 2011 , 38, 1689-1696	7.8	4
39	2010 ,		6
38	Challenges in developing a multidimensional Feature Selective Validation implementation 2010 ,		8
37	General regression neural network approach to prediction of electric field level in the reverberation chamber. <i>International Journal of Reasoning-based Intelligent Systems</i> , 2010 , 2, 168	0.4	1
36	Preliminary study of a reverberation chamber method for multiple-source testing using intermodulation. <i>IET Science, Measurement and Technology</i> , 2010 , 4, 21-27	1.5	7
35	Using the Feature Selective Validation technique to compare data sets 2009 ,		6
34	Shaping waveguide transmission and reflection characteristics using conducting fabrics. <i>Microwave and Optical Technology Letters</i> , 2009 , 51, 1416-1419	1.2	
33	Offset Difference Measure Enhancement for the Feature-Selective Validation Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2008 , 50, 413-415	2	12
32	Antenna Efficiency Measurements in a Reverberation Chamber Without the Need for a Reference Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008 , 7, 448-450	3.8	20
31	Progress in the development of a 2D Feature Selective Validation (FSV) method 2008 ,		9
30	Maximum Working Volume and Minimum Working Frequency Tradeoff in a Reverberation Chamber. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2007 , 49, 719-722	2	6
29	Validation of a Three-Dimensional Transmission Line Matrix (TLM) Model Implementation of a Mode-Stirred Reverberation Chamber. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2007 , 49, 734-744		31
28	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2006 , 48, 449-459	2	330
27	Feature selective validation (FSV) for validation of computational electromagnetics (CEM). part II- assessment of FSV performance. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2006 , 48, 460-467	2	282
26	Introduction to feature selective validation (FSV) 2006 ,		10
25	A visual interpretation rating scale for validation of numerical models. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2005 , 24, 1078-1092	0.7	16
24	Partial capacitance calculation for shielded twisted pair cables. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2004 , 46, 299-302	2	6
23	Shield behaviour of communications cables. <i>IET Science, Measurement and Technology</i> , 2003 , 150, 307-312		2

22	Analysis of techniques to compare complex data sets. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2002 , 21, 540-553	0.7	14
21	Method for prediction of capacitance of shielded transmission lines. <i>Electronics Letters</i> , 2001 , 37, 1424	1.1	2
20	Analysis and modelling of structured wiring communication channels. <i>IET Science, Measurement and Technology</i> , 2001 , 148, 129-136		1
19	Accurate method for predicting return loss of communication channel. <i>Electronics Letters</i> , 2001 , 37, 1423	1.1	2
18	Surface transfer impedance measurement: a comparison between current probe and pull-on braid methods for coaxial cables. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1998 , 40, 69-76	2	12
17	A powerful new technique for the quantitative validation of modeled and experimental data. <i>Microwave and Optical Technology Letters</i> , 1998 , 17, 284-287	1.2	5
16	A simple formula for calculating the frequency-dependent resistance of a round wire. <i>Microwave and Optical Technology Letters</i> , 1998 , 19, 84-87	1.2	21
15	Determining the accuracy of TLM in simulating the behaviour of resonant cavities with arbitrary dielectric loading. <i>International Journal of Electronics</i> , 1997 , 83, 645-660	1.2	3
14	Dielectric analysis of phosphorylcholine head group mobility in egg lecithin liposomes. <i>Pharmaceutical Research</i> , 1996 , 13, 1181-5	4.5	26
13	Dielectric relaxation spectroscopy and some applications in the pharmaceutical sciences. <i>Journal of Pharmaceutical Sciences</i> , 1995 , 84, 1029-44	3.9	77
12	Use of correlation functions to assist the experimental validation of numerical modeling techniques. <i>Microwave and Optical Technology Letters</i> , 1994 , 7, 361-364	1.2	13
11	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1994 , 36, 144-146	2	8
10	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1993 , 35, 46-54	2	7
9	The feature selective validation (FSV) method		18
8	Comparison of measured and computed local electric field distributions due to vehicle-mounted antennas using 2D feature selective validation		8
7	Progress in quantifying validation data		7
6	Issues in validation of complex-valued simulations for signal integrity analysis		3
5	The integrated error against log frequency (IELF) method for CEM validation		10

4	Comparing FSV and human responses to data comparisons	13
3	Applications of FSV to EMC and SI data	9
2	Objective validation of automotive EMC models	6
1	Measuring similarity for validation of computational electromagnetic modelling	3