Conor Brennan

List of Publications by Year
in descending order

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67	350	932766 10	940134 16
papers	citations	h-index	g-index

67	67	67	247
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of the fast far-field approximation to the computation of UHF pathloss over irregular terrain. IEEE Transactions on Antennas and Propagation, 1998, 46, 881-890.	3.1	40
2	Efficient Preprocessed Ray Tracing for 5G Mobile Transmitter Scenarios in Urban Microcellular Environments. IEEE Transactions on Antennas and Propagation, 2019, 67, 3323-3333.	3.1	30
3	A Novel Iterative Solution of the Three Dimensional Electric Field Integral Equation. IEEE Transactions on Antennas and Propagation, 2004, 52, 2781-2784.	3.1	25
4	Tabulated interaction method for UHF terrain propagation problems. IEEE Transactions on Antennas and Propagation, 1998, 46, 738-739.	3.1	23
5	An efficient nonlinear circuit simulation technique. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 548-555.	2.9	19
6	Printable all-dielectric water-based absorber. Scientific Reports, 2018, 8, 14490.	1.6	15
7	SEAMLOC: Seamless Indoor Localization Based on Reduced Number of Calibration Points. IEEE Transactions on Mobile Computing, 2014, 13, 1326-1337.	3.9	14
8	Efficient Wideband Electromagnetic Scattering Computation for Frequency Dependent Lossy Dielectrics Using WCAWE. IEEE Transactions on Antennas and Propagation, 2009, 57, 3274-3282.	3.1	13
9	An efficient ray tracing method for propagation prediction along a mobile route in urban environments. Radio Science, 2017, 52, 862-873.	0.8	12
10	Reduced forward operator for electromagnetic wave scattering problems. IET Science, Measurement and Technology, 2007, 1, 57-62.	0.9	11
11	Improved Forward Backward Method With Spectral Acceleration for Scattering From Randomly Rough Lossy Surfaces. IEEE Transactions on Antennas and Propagation, 2013, 61, 3922-3926.	3.1	10
12	A Hybridized Forward Backward Method Applied to Electromagnetic Wave Scattering Problems. IEEE Transactions on Antennas and Propagation, 2009, 57, 1846-1850.	3.1	9
13	Review and redesign of the curriculum of a Masters programme in telecommunications engineering â€“ Towards an outcome-based approach. European Journal of Engineering Education, 2013, 38, 194-210.	1.5	9
14	On comparison of integral equation approaches for indoor wave propagation. , 2014, , .		9
15	An image visibility based pre-processing method for fast ray tracing in urban environments. , 2016, , .		9
16	An MFIE-based tabulated interaction method for UHF terrain propagation problems. IEEE Transactions on Antennas and Propagation, 2000, 48, 1003-1005.	3.1	7
17	A causal model for linear RF systems developed from frequency-domain measured data. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2005, 52, 457-460.	2.3	7
18	Accelerated Ray-Tracing for Indoor Ultra-wideband Propagation Modelling. IEEE Vehicular Technology Conference, 2007, , .	0.2	7

#	Article	IF	Citations
19	Practical packet combining for use with cooperative and non-cooperative ARQ schemes in resource-constrained wireless sensor networks. Ad Hoc Networks, 2012, 10, 339-355.	3.4	7
20	Multilevel tabulated interaction method applied to UHF propagation over irregular terrain. IEEE Transactions on Antennas and Propagation, 1999, 47, 1574-1578.	3.1	5
21	Implementation of a multilevel fast far-field algorithm for solving electric-field integral equations. IET Microwaves Antennas and Propagation, 2000, 147, 19.	1.2	5
22	Convergence analysis for buffered block forward-backward (BBFB) method applied to EFIE. , 2006, , .		4
23	An intra-visibility matrix based environment pre-processing for efficient Ray tracing. , 2017, , .		4
24	Novel Iterative Algorithm for the Solution of Electromagnetic Scattering From Layered Random Rough Surfaces. IEEE Transactions on Antennas and Propagation, 2018, 66, 3810-3815.	3.1	4
25	A Dynamic Visibility Algorithm for Ray Tracing in Outdoor Environments with Moving Transmitters and Scatterers. , 2020, , .		4
26	Validation of a volume integral equation method for indoor propagation modelling. IET Microwaves, Antennas and Propagation, 2019, 13, 705-713.	0.7	4
27	A Visibility Matching Technique for Efficient Millimeter-Wave Vehicular Channel Modeling. IEEE Transactions on Antennas and Propagation, 2022, 70, 9977-9982.	3.1	4
28	A Practical Implementation of an Improved Packet Combining Scheme for Wireless Sensor Networks. , 2008, , .		3
29	Computationally efficient extension of a 2D integral equation propagation model to 3D. , 2015, , .		3
30	Two-Level Tabulated Interaction Method for Electromagnetic Scattering From Lossy Irregular Terrain Profiles Incorporating Back Scattering. IEEE Transactions on Antennas and Propagation, 2015, 63, 4024-4036.	3.1	3
31	An efficient ray-tracing acceleration technique for mobile receivers in urban environments. , 2017, , .		3
32	A method to speed up iterative solutions of terrain scattering problems. , 1997, , .		2
33	Improved method for fast frequency-sweep analysis of electromagnetic scattering problems. IET Science, Measurement and Technology, 2004, 151, 488-491.	0.7	2
34	An efficient nonlinear circuit simulation technique. , 0, , .		2
35	Solution of large-scale wideband EM wave scattering problems using Fast Fourier Transform and the Asymptotic Waveform Evaluation technique. , 2012, , .		2
36	Fast Fourier Transform Based Iterative Method for Electromagnetic Scattering From 1D Flat Surfaces. IEEE Transactions on Antennas and Propagation, 2012, 60, 5464-5467.	3.1	2

#	Article	IF	Citations
37	Accelerated buffered block forward backward method for electrically large scattering problems. , 2013, , .		2
38	Fast iterative method for computing electromagnetic scattering from randomly rough surfaces. , 2015, , .		2
39	Preliminary comparison of 3D integral equation based indoor propagation model and ray tracing. , 2015, , .		2
40	A high speed adaptive methodology for calculating UHF propagation loss over terrain. , 0, , .		1
41	Block Forward Backward method for Computation of Electromagnetic Wave scattering from a collection of Inhomogeneous Bodies. , 2007, , .		1
42	Accelerated Source-Sweep Analysis Using a Reduced-Order Model Approach. IEEE Transactions on Antennas and Propagation, 2011, 59, 4360-4363.	3.1	1
43	Fullwave computation of path loss in urban areas. , 2014, , .		1
44	Fullâ€wave analysis of electromagnetic wave propagation over terrain using the Improved Tabulated Interaction Method. Radio Science, 2015, 50, 355-364.	0.8	1
45	FEM-DBCI for efficient computation of electrostatic capacitance. , 2015, , .		1
46	Modified Multilevel Fast Multipole Algorithm for Stationary Iterative Solvers. IEEE Access, 2015, 3, 774-786.	2.6	1
47	A Masters Programme in telecommunications management â€“ demand-based curriculum design. European Journal of Engineering Education, 2015, 40, 267-284.	1.5	1
48	Comparison of 3D volume integral equation and ray tracing for indoor propagation modelling. , 2016, , .		1
49	A hybrid 2D to 3D full wave indoor propagation model. , 2016, , .		1
50	Preliminary investigation of power delay profile computation from full wave frequency domain indoor propagation model. , 2017, , .		1
51	Validation of a Volume Integral Equation Method for Indoor Propagation Modelling. , 2017, , .		1
52	An efficient wavelet-based nonlinear circuit simulation technique with model order reduction. , 0, , .		0
53	Well-Conditioned Asymptotic Waveform Evaluation for Efficient Computation of Wave-Scattering from Perfectly Conducting Bodies. , 2007, , .		0
54	Incorporation of Backscattering Into FAFFA Analysis of UHF Wave Propagation Over Irregular Terrain. IEEE Vehicular Technology Conference, 2007, , .	0.2	0

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55	Design of 2D TeraHertz band-gap photonic waveguides using an accelerated integral equation technique. , 2009, , .		0
56	Extension of fast far field algorithm to propagation over lossy dielectric terrain and buildings. , 2011, , .		0
57	Efficient computation of electromagnetic wave scattering for inhomogeneous bodies using a model order reduction approach. IET Microwaves, Antennas and Propagation, 2011, 5, 1619.	0.7	0
58	Accelerated forward backward iterative solution for scattering from randomly rough lossy surfaces. , 2011, , .		0
59	Tabulated Interaction Method for electromagnetic wave propagation prediction in rural and mountainous areas. , 2012, , .		0
60	Improved Forward Backward Method with Spectral Acceleration for scattering from exponentially correlated rough lossy surfaces. , 2012, , .		0
61	Integral equation based path loss modelling for propagation in urban environments. , 2014, , .		0
62	Rapid convergent iterative solver for computing two-dimensional random rough surface scattering. , 2015, , .		0
63	Volume integral equation based modelling of in building propagation. , 2017, , .		0
64	Improved Forward Backward Method with Multiple Correction Vectors for Layered Random Rough Surfaces of Exponential Correlation Functions. , 2018, , .		0
65	Log-moment estimators of the Nakagami-lognormal distribution. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	0
66	UniDoodle: A Multi-Platform Smart Device Student Response System â€“ Evaluated in an Engineering Mathematics Classroom. MSOR Connections, 2017, 15, 44.	0.1	0
67	Computation of Scattering from Rough Surfaces using Successive Symmetric Over Relaxation and Eigenvalue Deflation. , 2022, , .		0