

# Slawomir Koziel

## List of Publications by Year in descending order

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880  
papers

11,708  
citations

44042

48  
h-index

64755

79  
g-index

906  
all docs

906  
docs citations

906  
times ranked

3438  
citing authors

#	ARTICLE	IF	CITATIONS
1	Space mapping. IEEE Microwave Magazine, 2008, 9, 105-122.	0.7	300
2	A Space-Mapping Framework for Engineering Optimization—Theory and Implementation. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 3721-3730.	2.9	259
3	Reliable Space-Mapping Optimization Integrated With EM-Based Adjoint Sensitivities. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3493-3502.	2.9	215
4	Space Mapping With Adaptive Response Correction for Microwave Design Optimization. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 478-486.	2.9	214
5	Surrogate-Based Methods. Studies in Computational Intelligence, 2011, , 33-59.	0.7	181
6	Rapid Yield Estimation and Optimization of Microwave Structures Exploiting Feature-Based Statistical Analysis. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 107-114.	2.9	175
7	Fast simulation-driven antenna design using response-feature surrogates. International Journal of RF and Microwave Computer-Aided Engineering, 2015, 25, 394-402.	0.8	150
8	Antenna Design by Simulation-Driven Optimization. SpringerBriefs in Optimization, 2014, , .	0.3	146
9	Multi-Objective Design of Antennas Using Variable-Fidelity Simulations and Surrogate Models. IEEE Transactions on Antennas and Propagation, 2013, 61, 5931-5939.	3.1	144
10	Demystifying Surrogate Modeling for Circuits and Systems. IEEE Circuits and Systems Magazine, 2012, 12, 45-63.	2.6	133
11	Accelerated Microwave Design Optimization With Tuning Space Mapping. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 383-394.	2.9	130
12	Two-Stage Framework for Efficient Gaussian Process Modeling of Antenna Input Characteristics. IEEE Transactions on Antennas and Propagation, 2014, 62, 706-713.	3.1	121
13	Efficient Multi-Objective Simulation-Driven Antenna Design Using Co-Kriging. IEEE Transactions on Antennas and Propagation, 2014, 62, 5900-5905.	3.1	120
14	Shape-Preserving Response Prediction for Microwave Design Optimization. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2829-2837.	2.9	117
15	Structure and Computationally Efficient Simulation-Driven Design of Compact UWB Monopole Antenna. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1282-1285.	2.4	110
16	A multi-fidelity surrogate-model-assisted evolutionary algorithm for computationally expensive optimization problems. Journal of Computational Science, 2016, 12, 28-37.	1.5	110
17	A Comprehensive Survey on Antennas On-Chip Based on Metamaterial, Metasurface, and Substrate Integrated Waveguide Principles for Millimeter-Waves and Terahertz Integrated Circuits and Systems. IEEE Access, 2022, 10, 3668-3692.	2.6	108
18	Performance-Based Nested Surrogate Modeling of Antenna Input Characteristics. IEEE Transactions on Antennas and Propagation, 2019, 67, 2904-2912.	3.1	103

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19	Quality assessment of coarse models and surrogates for space mapping optimization. Optimization and Engineering, 2008, 9, 375-391.	1.3	102
20	Sizing of 3-D Arbitrary Defects Using Magnetic Flux Leakage Measurements. IEEE Transactions on Magnetics, 2010, 46, 1024-1033.	1.2	100
21	Variable-Fidelity Electromagnetic Simulations and Co-Kriging for Accurate Modeling of Antennas. IEEE Transactions on Antennas and Propagation, 2013, 61, 1301-1308.	3.1	97
22	Expedited Design Closure of Antennas by Means of Trust-Region-Based Adaptive Response Scaling. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1099-1103.	2.4	95
23	Compact UWB monopole antenna for internet of things applications. Electronics Letters, 2016, 52, 492-494.	0.5	90
24	Multi-fidelity design optimization of transonic airfoils using physics-based surrogate modeling and shape-preserving response prediction. Journal of Computational Science, 2010, 1, 98-106.	1.5	87
25	Robust microwave design optimization using adjoint sensitivity and trust regions. International Journal of RF and Microwave Computer-Aided Engineering, 2012, 22, 10-19.	0.8	81
26	Surrogate-Based Aerodynamic Shape Optimization by Variable-Resolution Models. AIAA Journal, 2013, 51, 94-106.	1.5	81
27	Design of a Compact Planar Transmission Line for Miniaturized Rat-Race Coupler With Harmonics Suppression. IEEE Access, 2021, 9, 129207-129217.	2.6	80
28	Antenna Optimization Through Space Mapping. IEEE Transactions on Antennas and Propagation, 2007, 55, 651-658.	3.1	78
29	Robust Trust-Region Space-Mapping Algorithms for Microwave Design Optimization. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2166-2174.	2.9	78
30	Simplified space-mapping approach to enhancement of microwave device models. International Journal of RF and Microwave Computer-Aided Engineering, 2006, 16, 518-535.	0.8	77
31	Expedited EM-Driven Multiobjective Antenna Design in Highly Dimensional Parameter Spaces. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 631-634.	2.4	74
32	Space-Mapping Optimization With Adaptive Surrogate Model. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 541-547.	2.9	73
33	Fast EM-Driven Size Reduction of Antenna Structures by Means of Adjoint Sensitivities and Trust Regions. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1681-1684.	2.4	72
34	Fast EM Modeling Exploiting Shape-Preserving Response Prediction and Space Mapping. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 399-407.	2.9	66
35	Simulation-Driven Design by Knowledge-Based Response Correction Techniques. , 2016, , ,		66
36	Design of highly linear tunable CMOS OTA for continuous-time filters. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2002, 49, 110-122.	2.3	65

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37	Expedited Feature-Based Quasi-Global Optimization of Multi-Band Antenna Input Characteristics With Jacobian Variability Tracking. IEEE Access, 2020, 8, 83907-83915.	2.6	62
38	A Space Mapping Methodology for Defect Characterization From Magnetic Flux Leakage Measurements. IEEE Transactions on Magnetics, 2008, 44, 2058-2065.	1.2	61
39	Low-Cost Data-Driven Surrogate Modeling of Antenna Structures by Constrained Sampling. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 461-464.	2.4	61
40	Model management for cost-efficient surrogate-based optimisation of antennas using variable-fidelity electromagnetic simulations. IET Microwaves, Antennas and Propagation, 2012, 6, 1643-1650.	0.7	60
41	Reduced-cost electromagnetic-driven optimisation of antenna structures by means of trust-region gradient search with sparse Jacobian updates. IET Microwaves, Antennas and Propagation, 2019, 13, 1646-1652.	0.7	60
42	Triangulation-Based Constrained Surrogate Modeling of Antennas. IEEE Transactions on Antennas and Propagation, 2018, 66, 4170-4179.	3.1	59
43	Ground Plane Alterations for Design of High-Isolation Compact Wideband MIMO Antenna. IEEE Access, 2018, 6, 48978-48983.	2.6	57
44	Multi-fidelity robust aerodynamic design optimization under mixed uncertainty. Aerospace Science and Technology, 2015, 45, 17-29.	2.5	56
45	Enhanced-Performance Circularly Polarized MIMO Antenna With Polarization/Pattern Diversity. IEEE Access, 2020, 8, 11887-11895.	2.6	55
46	Optoelectronic properties of curved carbon systems. Carbon, 2017, 111, 371-379.	5.4	53
47	Enhanced surrogate models for statistical design exploiting space mapping technology. , 2005, , .		52
48	Advanced RF and Microwave Design Optimization: A Journey and a Vision of Future Trends. IEEE Journal of Microwaves, 2021, 1, 481-493.	4.9	52
49	Multiobjective Aerodynamic Optimization by Variable-Fidelity Models and Response Surface Surrogates. AIAA Journal, 2016, 54, 531-541.	1.5	51
50	Theoretical Justification of Space-Mapping-Based Modeling Utilizing a Database and On-Demand Parameter Extraction. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4316-4322.	2.9	50
51	Progress in Simulator-Based Tuning – The Art of Tuning Space Mapping [Application Notes. IEEE Microwave Magazine, 2010, 11, 96-110.	0.7	48
52	Expedited Geometry Scaling of Compact Microwave Passives by Means of Inverse Surrogate Modeling. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4019-4026.	2.9	48
53	Fast Optimization of Integrated Photonic Components Using Response Correction and Local Approximation Surrogates. Procedia Computer Science, 2015, 51, 825-833.	1.2	48
54	Rapid EM-Driven Antenna Dimension Scaling Through Inverse Modeling. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 714-717.	2.4	48

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55	Derivative-Free Optimization. <i>Studies in Computational Intelligence</i> , 2011, , 61-83.	0.7	47
56	A Broadband Circularly Polarized Wide-Slot Antenna With a Miniaturized Footprint. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 2454-2458.	2.4	46
57	A Compact Circularly Polarized Antenna With Directional Pattern for Wearable Off-Body Communications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 2523-2527.	2.4	46
58	Expedited Yield Optimization of Narrow- and Multi-Band Antennas Using Performance-Driven Surrogates. <i>IEEE Access</i> , 2020, 8, 143104-143113.	2.6	46
59	Machine-Learning-Powered EM-Based Framework for Efficient and Reliable Design of Low Scattering Metasurfaces. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021, 69, 2028-2041.	2.9	46
60	A Space-Mapping Approach to Microwave Device Modeling Exploiting Fuzzy Systems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007, 55, 2539-2547.	2.9	45
61	Reliable Microwave Modeling by Means of Variable-Fidelity Response Features. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 4247-4254.	2.9	45
62	Space Mapping With Multiple Coarse Models for Optimization of Microwave Components. <i>IEEE Microwave and Wireless Components Letters</i> , 2008, 18, 1-3.	2.0	44
63	Performance-Driven Surrogate Modeling of High-Frequency Structures. , 2020, , .		44
64	Computationally efficient design optimisation of antennas by accelerated gradient search with sensitivity and design change monitoring. <i>IET Microwaves, Antennas and Propagation</i> , 2020, 14, 165-170.	0.7	44
65	Space-mapping-based interpolation for engineering optimization. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006, 54, 2410-2421.	2.9	43
66	Space Mapping Design Framework Exploiting Tuning Elements. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010, 58, 136-144.	2.9	43
67	A Structure and Simulation-Driven Design of Compact CPW-Fed UWB Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016, 15, 750-753.	2.4	43
68	Simulation-Driven Design Optimization and Modeling for Microwave Engineering. , 2013, , .		43
69	Constrained parameter extraction for microwave design optimisation using implicit space mapping. <i>IET Microwaves, Antennas and Propagation</i> , 2011, 5, 1156.	0.7	40
70	Aerodynamic shape optimization by variable-fidelity computational fluid dynamics models: A review of recent progress. <i>Journal of Computational Science</i> , 2015, 10, 45-54.	1.5	40
71	Rapid antenna design optimization using shape-preserving response prediction. <i>Bulletin of the Polish Academy of Sciences: Technical Sciences</i> , 2012, 60, 143-149.	0.8	39
72	Rapid EM-Driven Design of Compact RF Circuits By Means of Nested Space Mapping. <i>IEEE Microwave and Wireless Components Letters</i> , 2014, 24, 364-366.	2.0	39

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73	Rapid design of miniaturised branchâ€line couplers through concurrent cell optimisation and surrogateâ€assisted fineâ€tuning. IET Microwaves, Antennas and Propagation, 2015, 9, 957-963.	0.7	39
74	Theoretical performance prediction of a reverse osmosis desalination membrane element under variable operating conditions. Desalination, 2017, 419, 70-78.	4.0	39
75	Rapid Multi-Objective Simulation-Driven Design of Compact Microwave Circuits. IEEE Microwave and Wireless Components Letters, 2015, 25, 277-279.	2.0	38
76	Design of a Planar UWB Dipole Antenna With an Integrated Balun Using Surrogate-Based Optimization. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 366-369.	2.4	38
77	SADEA-II: A generalized method for efficient global optimization of antenna design. Journal of Computational Design and Engineering, 2017, 4, 86-97.	1.5	38
78	A general approach to continuous-time Gm-C filters. International Journal of Circuit Theory and Applications, 2003, 31, 361-383.	1.3	37
79	Towards a Rigorous Formulation of the Space Mapping Technique for Engineering Design. , 0, , .		37
80	Computational Optimization, Modelling and Simulation: Recent Trends and Challenges. Procedia Computer Science, 2013, 18, 855-860.	1.2	36
81	Fast Multiobjective Optimization of Narrowband Antennas Using RSA Models and Design Space Reduction. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 450-453.	2.4	36
82	Rapid Simulation-Driven Multiobjective Design Optimization of Decomposable Compact Microwave Passives. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 2454-2461.	2.9	36
83	A Geometrically Simple Compact Wideband Circularly Polarized Antenna. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1179-1183.	2.4	36
84	Efficient yield estimation of multiband patch antennas by polynomial chaosâ€based Kriging. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2020, 33, e2722.	1.2	36
85	Combining Coarse and Fine Models for Optimal Design. IEEE Microwave Magazine, 2008, 9, 79-88.	0.7	35
86	Reliable emâ€driven microwave design optimization using manifold mapping and adjoint sensitivity. Microwave and Optical Technology Letters, 2013, 55, 809-813.	0.9	34
87	Rapid electromagneticâ€based microwave design optimisation exploiting shapeâ€preserving response prediction and adjoint sensitivities. IET Microwaves, Antennas and Propagation, 2014, 8, 775-781.	0.7	34
88	Variable-Fidelity Simulation Models and Sparse Gradient Updates for Cost-Efficient Optimization of Compact Antenna Input Characteristics. Sensors, 2019, 19, 1806.	2.1	34
89	Rapid Redesign and Bandwidth/Size Tradeoffs for Compact Wideband Circular Polarization Antennas Using Inverse Surrogates and Fast EM-Based Parameter Tuning. IEEE Transactions on Antennas and Propagation, 2020, 68, 81-89.	3.1	34
90	Antenna Modeling Using Variable-Fidelity EM Simulations and Constrained Co-Kriging. IEEE Access, 2020, 8, 91048-91056.	2.6	34

#	ARTICLE	IF	CITATIONS
91	Accurate Modeling of Antenna Structures by Means of Domain Confinement and Pyramidal Deep Neural Networks. IEEE Transactions on Antennas and Propagation, 2022, 70, 2174-2188.	3.1	34
92	Knowledge-Based Airfoil Shape Optimization Using Space Mapping. , 2012, , .		33
93	Reduced-cost surrogate modelling of compact microwave components by two-level kriging interpolation. Engineering Optimization, 2020, 52, 960-972.	1.5	33
94	Rapid Microwave Design Optimization in Frequency Domain Using Adaptive Response Scaling. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 2749-2757.	2.9	32
95	The state of the art of microwave CAD: EM-based optimization and modeling. International Journal of RF and Microwave Computer-Aided Engineering, 2010, 20, 475-491.	0.8	31
96	On Reduced-Cost Design-Oriented Constrained Surrogate Modeling of Antenna Structures. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1618-1621.	2.4	31
97	Computationally Efficient Multi-Fidelity Bayesian Support Vector Regression Modeling of Planar Antenna Input Characteristics. IEEE Transactions on Antennas and Propagation, 2013, 61, 980-984.	3.1	30
98	Expedited optimization of antenna input characteristics with adaptive Broyden updates. Engineering Computations, 2019, 37, 851-862.	0.7	30
99	Compact Dual-Polarized Corrugated Horn Antenna for Satellite Communications. IEEE Transactions on Antennas and Propagation, 2020, 68, 5122-5129.	3.1	30
100	Tuning space mapping design framework exploiting reduced electromagnetic models. IET Microwaves, Antennas and Propagation, 2011, 5, 1219.	0.7	29
101	A Series Inclined Slot-Fed Circularly Polarized Antenna for 5G 28 GHz Applications. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 351-355.	2.4	29
102	Multiobjective Antenna Design By Means of Sequential Domain Patching. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1089-1092.	2.4	28
103	Fast Multi-Objective Optimization of Antenna Structures by Means of Data-Driven Surrogates and Dimensionality Reduction. IEEE Access, 2020, 8, 183300-183311.	2.6	28
104	Quasi-Global Optimization of Antenna Structures Using Principal Components and Affine Subspace-Spanned Surrogates. IEEE Access, 2020, 8, 50078-50084.	2.6	28
105	A general framework for evaluating nonlinearity, noise and dynamic range in continuous-time OTA-C filters for computer-aided design and optimization. International Journal of Circuit Theory and Applications, 2007, 35, 405-425.	1.3	27
106	Miniaturised dual-band branch-line coupler. Electronics Letters, 2015, 51, 769-771.	0.5	27
107	Rapid design optimization of antennas using variable-fidelity EM models and adjoint sensitivities. Engineering Computations, 2016, 33, 2007-2018.	0.7	27
108	Low-cost optimization of compact branch-line couplers and its application to miniaturized Butler matrix design. , 2014, , .		26

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109	Expedited Design of Microstrip Antenna Subarrays Using Surrogate-Based Optimization. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 635-638.	2.4	26
110	Fast simulation-driven feature-based design optimization of compact dual-band microstrip branch-line coupler. International Journal of RF and Microwave Computer-Aided Engineering, 2016, 26, 13-20.	0.8	26
111	Numerically efficient algorithm for compact microwave device optimization with flexible sensitivity updating scheme. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21714.	0.8	26
112	Recent advances in accelerated multi-objective design of high-frequency structures using knowledge-based constrained modeling approach. Knowledge-Based Systems, 2021, 214, 106726.	4.0	26
113	Design optimisation of antennas using electromagnetic simulations and adaptive response correction technique. IET Microwaves, Antennas and Propagation, 2014, 8, 180-185.	0.7	25
114	Sequential approximate optimisation for statistical analysis and yield optimisation of circularly polarised antennas. IET Microwaves, Antennas and Propagation, 2018, 12, 2060-2064.	0.7	25
115	A Wideband Corrugated Ridged Horn Antenna With Enhanced Gain and Stable Phase Center for X- and Ku-Band Applications. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1031-1035.	2.4	25
116	A Novel Coplanar-Strip-Based Excitation Technique for Design of Broadband Circularly Polarization Antennas With Wide 3 dB Axial Ratio Beamwidth. IEEE Transactions on Antennas and Propagation, 2019, 67, 4224-4229.	3.1	25
117	Distribution network reconfiguration using feasibility-preserving evolutionary optimization. Journal of Modern Power Systems and Clean Energy, 2019, 7, 589-598.	3.3	25
118	Design-oriented computationally-efficient feature-based surrogate modelling of multi-band antennas with nested kriging. AEU - International Journal of Electronics and Communications, 2020, 120, 153202.	1.7	25
119	Low-Cost Modeling of Microwave Components by Means of Two-Stage Inverse/Forward Surrogates and Domain Confinement. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 5189-5202.	2.9	25
120	Sizing of multiple cracks using magnetic flux leakage measurements. IET Science, Measurement and Technology, 2010, 4, 1-11.	0.9	24
121	Structure and design optimisation of compact UWB slot antenna. Electronics Letters, 2016, 52, 681-682.	0.5	24
122	Surrogate modelling and optimization using shape-preserving response prediction: A review. Engineering Optimization, 2016, 48, 476-496.	1.5	24
123	Conceptual design and automated optimisation of a novel compact UWB MIMO slot antenna. IET Microwaves, Antennas and Propagation, 2017, 11, 1162-1168.	0.7	24
124	A Conformal Circularly Polarized Series-Fed Microstrip Antenna Array Design. IEEE Transactions on Antennas and Propagation, 2020, 68, 873-881.	3.1	24
125	Surrogate modeling of impedance matching transformers by means of $\epsilon$ -fidelity electromagnetic simulations and nested cokrigin. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22268.	0.8	24
126	Improved Modeling of Microwave Structures Using Performance-Driven Fully-Connected Regression Surrogate. IEEE Access, 2021, 9, 71470-71481.	2.6	24

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127	Series-Slot-Fed Circularly Polarized Multiple-Input Multiple-Output Antenna Array Enabling Circular Polarization Diversity for 5G 28 GHz Indoor Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 5607-5616.	3.1	24
128	ADAPTIVELY ADJUSTED DESIGN SPECIFICATIONS FOR EFFICIENT OPTIMIZATION OF MICROWAVE STRUCTURES. Progress in Electromagnetics Research B, 2010, 21, 219-234.	0.7	24
129	RELIABLE SIMULATION-DRIVEN DESIGN OPTIMIZATION OF MICROWAVE STRUCTURES USING MANIFOLD MAPPING. Progress in Electromagnetics Research B, 2010, 26, 361-382.	0.7	23
130	Surrogate modeling of microwave structures using kriging, co-kriging, and space mapping. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2013, 26, 64-73.	1.2	23
131	Multi-level CFD-based Airfoil Shape Optimization With Automated Low-fidelity Model Selection. Procedia Computer Science, 2013, 18, 889-898.	1.2	23
132	Accurate Design-Oriented Modeling of Compact Microwave Couplers in Constrained Domains. , 2018, , .		23
133	Rapid multi-objective optimization of antennas using nested kriging surrogates and single-fidelity EM simulation models. Engineering Computations, 2019, 37, 1491-1512.	0.7	23
134	Constrained multi-objective optimization of compact microwave circuits by design triangulation and pareto front interpolation. European Journal of Operational Research, 2022, 299, 302-312.	3.5	23
135	An innovative antenna array with high inter element isolation for sub-6GHz 5G MIMO communication systems. Scientific Reports, 2022, 12, 7907.	1.6	23
136	Implicit space mapping with adaptive selection of preassigned parameters. IET Microwaves, Antennas and Propagation, 2010, 4, 361.	0.7	22
137	Recent advances in space-mapping-based modeling of microwave devices. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2010, 23, 425-446.	1.2	22
138	Rapid design optimization of antennas using space mapping and response surface approximation models. International Journal of RF and Microwave Computer-Aided Engineering, 2011, 21, 611-621.	0.8	22
139	Fast multi-objective surrogate-assisted design of multi-parameter antenna structures through rotational design space reduction. IET Microwaves, Antennas and Propagation, 2016, 10, 624-630.	0.7	22
140	Low-cost multi-objective optimization of antennas using Pareto front exploration and response features. , 2016, , .		22
141	Multi-objective optimization of expensive electromagnetic simulation models. Applied Soft Computing Journal, 2016, 47, 332-342.	4.1	22
142	Comprehensive Comparison of Compact UWB Antenna Performance by Means of Multiobjective Optimization. IEEE Transactions on Antennas and Propagation, 2017, 65, 3427-3436.	3.1	22
143	Accurate Modeling of Frequency Selective Surfaces Using Fully-Connected Regression Model With Automated Architecture Determination and Parameter Selection Based on Bayesian Optimization. IEEE Access, 2021, 9, 38396-38410.	2.6	22
144	Accurate modeling of microwave devices using kriging-corrected space mapping surrogates. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2012, 25, 1-14.	1.2	21

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145	Design and optimization of a novel miniaturized low-profile circularly polarized wide-slot antenna. <i>Journal of Electromagnetic Waves and Applications</i> , 2018, 32, 2099-2109.	1.0	21
146	Efficient Gradient-Based Algorithm with Numerical Derivatives for Expedited Optimization of Multi-Parameter Miniaturized Impedance Matching Transformers. <i>Radioengineering</i> , 2019, 27, 572-578.	0.3	21
147	Accelerated multiobjective design of miniaturized microwave components by means of nested kriging surrogates. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2020, 30, e22124.	0.8	21
148	Cost-Efficient Bi-Layer Modeling of Antenna Input Characteristics Using Gradient Kriging Surrogates. <i>IEEE Access</i> , 2020, 8, 140831-140839.	2.6	21
149	Accelerated Gradient-Based Optimization of Antenna Structures Using Multifidelity Simulations and Convergence-Based Model Management Scheme. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 8778-8789.	3.1	21
150	Robust multi-fidelity simulation-driven design optimization of microwave structures. , 2010, , .		20
151	Rapid optimisation of omnidirectional antennas using adaptively adjusted design specifications and kriging surrogates. <i>IET Microwaves, Antennas and Propagation</i> , 2013, 7, 1194-1200.	0.7	20
152	Optimal shape design of multi-element trawl-doors using local surrogate models. <i>Journal of Computational Science</i> , 2015, 10, 55-62.	1.5	20
153	Compact cell topology selection for size-reduction-oriented design of microstrip rat-race couplers. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018, 28, e21261.	0.8	20
154	Multi-fidelity EM simulations and constrained surrogate modelling for low-cost multi-objective design optimisation of antennas. <i>IET Microwaves, Antennas and Propagation</i> , 2018, 12, 2025-2029.	0.7	20
155	Expedited antenna optimization with numerical derivatives and gradient change tracking. <i>Engineering Computations</i> , 2019, 37, 1179-1193.	0.7	20
156	Dynamic range comparison of voltage-mode and current-mode state-space G/sub m/-C biquad filters in reciprocal structures. <i>IEEE Transactions on Circuits and Systems Part I: Regular Papers</i> , 2003, 50, 1245-1255.	0.1	19
157	Microwave Device Modeling Using Space-Mapping and Radial Basis Functions. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007, , .	0.0	19
158	Modeling of microwave devices with space mapping and radial basis functions. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2008, 21, 187-203.	1.2	19
159	Aerodynamic Design Optimization: Physics-based Surrogate Approaches for Airfoil and Wing Design. , 2014, , .		19
160	Shape Optimization of Trawl-doors Using Variable-fidelity Models and Space Mapping. <i>Procedia Computer Science</i> , 2015, 51, 905-913.	1.2	19
161	Fast surrogate-assisted simulation-driven optimisation of add-drop resonators for integrated photonic circuits. <i>IET Microwaves, Antennas and Propagation</i> , 2015, 9, 672-675.	0.7	19
162	Accelerated simulation-driven design optimisation of compact couplers by means of two-level space mapping. <i>IET Microwaves, Antennas and Propagation</i> , 2015, 9, 618-626.	0.7	19

#	ARTICLE	IF	CITATIONS
163	Rapid Multiobjective Antenna Design Using Point-By-Point Pareto Set Identification and Local Surrogate Models. IEEE Transactions on Antennas and Propagation, 2016, 64, 2551-2556.	3.1	19
164	Expedited simulation-driven design optimization of UWB antennas by means of response features. International Journal of RF and Microwave Computer-Aided Engineering, 2017, 27, e21102.	0.8	19
165	Rapid design optimization of compact couplers using response features and adjoint sensitivities. , 2017, , .		19
166	Low-cost performance-driven modelling of compact microwave components with two-layer surrogates and gradient kriging. AEU - International Journal of Electronics and Communications, 2020, 126, 153419.	1.7	19
167	Fast Multi-Objective Aerodynamic Optimization Using Sequential Domain Patching and Multifidelity Models. Journal of Aircraft, 2020, 57, 388-398.	1.7	19
168	Circular Polarization Diversity Implementation for Correlation Reduction in Wideband Low-Cost Multiple-Input-Multiple-Output Antenna. IEEE Access, 2020, 8, 95585-95593.	2.6	19
169	Expedited Globalized Antenna Optimization by Principal Components and Variable-Fidelity EM Simulations: Application to Microstrip Antenna Design. Electronics (Switzerland), 2020, 9, 673.	1.8	19
170	SMF: A User-Friendly Software Engine for Space-Mapping-Based Engineering Design Optimization. , 2007, , .		18
171	Cost-efficient design methodology for compact rat-race couplers. International Journal of RF and Microwave Computer-Aided Engineering, 2015, 25, 236-242.	0.8	18
172	Rapid multi-objective design optimisation of compact microwave couplers by means of physics-based surrogates. IET Microwaves, Antennas and Propagation, 2016, 10, 479-486.	0.7	18
173	Simulation-based optimization for rigorous assessment of ground plane modifications in compact UWB antenna design. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21204.	0.8	18
174	Rapid Design Tuning of Miniaturized Rat-Race Couplers Using Regression-Based Equivalent Network Surrogates. , 2018, , .		18
175	Multi-fidelity aerodynamic design trade-off exploration using point-by-point Pareto set identification. Aerospace Science and Technology, 2018, 79, 399-412.	2.5	18
176	Reliable EM-Driven Size Reduction of Antenna Structures by Means of Adaptive Penalty Factors. IEEE Transactions on Antennas and Propagation, 2022, 70, 1389-1401.	3.1	18
177	Global EM-driven optimization of multi-band antennas using knowledge-based inverse response-feature surrogates. Knowledge-Based Systems, 2021, 227, 107189.	4.0	18
178	Support-vector-regression-based output space-mapping for microwave device modeling. , 2008, , .		17
179	Feasible space boundary search for improved optimisation-based miniaturisation of antenna structures. IET Microwaves, Antennas and Propagation, 2018, 12, 1273-1278.	0.7	17
180	Feedline Alterations for Optimization-Based Design of Compact Super-Wideband MIMO Antennas in Parallel Configuration. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1986-1990.	2.4	17

#	ARTICLE	IF	CITATIONS
181	Reliable data-driven modeling of high-frequency structures by means of nested kriging with enhanced design of experiments. <i>Engineering Computations</i> , 2019, 36, 2293-2308.	0.7	17
182	Simulation-Driven Antenna Modeling by Means of Response Features and Confined Domains of Reduced Dimensionality. <i>IEEE Access</i> , 2020, 8, 228942-228954.	2.6	17
183	Fast Design Closure of Compact Microwave Components by Means of Feature-Based Metamodels. <i>Electronics (Switzerland)</i> , 2021, 10, 10.	1.8	17
184	Overview of Planar Antenna Loading Metamaterials for Gain Performance Enhancement: The Two Decades of Progress. <i>IEEE Access</i> , 2022, 10, 27381-27403.	2.6	17
185	Analysis and optimization of noise in continuous-time OTA-C filters. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2005, 52, 1086-1094.	0.1	16
186	Tuning space mapping: A novel technique for engineering design optimization. , 2008, , .		16
187	Robust multi-fidelity simulation-driven design optimization of microwave structures. , 2010, , .		16
188	Surrogate-based optimization of climate model parameters using response correction. <i>Journal of Computational Science</i> , 2011, 2, 335-344.	1.5	16
189	Tuning space mapping: The state of the art. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2012, 22, 639-651.	0.8	16
190	Robust variable-fidelity optimization of microwave filters using co-kriging and trust regions. <i>Microwave and Optical Technology Letters</i> , 2013, 55, 765-769.	0.9	16
191	Accelerated parameter identification in a 3D marine biogeochemical model using surrogate-based optimization. <i>Ocean Modelling</i> , 2013, 68, 22-36.	1.0	16
192	Multi-Level Surrogate-Based Airfoil Shape Optimization. , 2013, , .		16
193	EM-driven tuning of substrate integrated waveguide filters exploiting feature-space surrogates. , 2014, , .		16
194	Efficient multi-fidelity design optimization of microwave filters using adjoint sensitivity. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2015, 25, 178-183.	0.8	16
195	Novel structure and size-reduction-oriented design of microstrip compact rat-race coupler. , 2016, , .		16
196	Parametric study of fluid flow and heat transfer over louvered fins of air heat pump evaporator. <i>Archives of Thermodynamics</i> , 2016, 37, 45-62.	1.0	16
197	Objective Relaxation Algorithm for Reliable Simulation-Driven Size Reduction of Antenna Structures. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 1949-1952.	2.4	16
198	On Alternative Approaches to Design of Corporate Feeds for Low-Sidelobe Microstrip Linear Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 3781-3786.	3.1	16

#	ARTICLE	IF	CITATIONS
199	Optimization-Driven Antenna Design Framework With Multiple Performance Constraints. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21208.	0.8	16
200	Design of a Patch Power Divider With Simple Structure and Ultra-Broadband Harmonics Suppression. IEEE Access, 2021, 9, 165734-165744.	2.6	16
201	Coarse and Surrogate Model Assessment for Engineering Design Optimization with Space Mapping. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	15
202	Linear antenna array synthesis using gradient-based optimization with analytical derivatives. , 2012, , .		15
203	Mathematical modelling and parameter optimization of pulsating heat pipes. Journal of Computational Science, 2014, 5, 119-125.	1.5	15
204	Application of Multifidelity Optimization Techniques to Benchmark Aerodynamic Design Problems. , 2016, , .		15
205	Fast EM-Driven Optimization Using Variable-Fidelity EM Models and Adjoint Sensitivities. IEEE Microwave and Wireless Components Letters, 2016, 26, 80-82.	2.0	15
206	Pareto-Ranking Bisection Algorithm for Expedited Multiobjective Optimization of Antenna Structures. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1488-1491.	2.4	15
207	Inverse modeling for fast design optimization of small-size rat-race couplers incorporating compact cells. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21240.	0.8	15
208	Performance-driven modeling of compact couplers in restricted domains. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21296.	0.8	15
209	Multi-Fidelity Local Surrogate Model for Computationally Efficient Microwave Component Design Optimization. Sensors, 2019, 19, 3023.	2.1	15
210	Tolerance-Aware Multi-Objective Optimization of Antennas by Means of Feature-Based Regression Surrogates. IEEE Transactions on Antennas and Propagation, 2022, 70, 5636-5646.	3.1	15
211	Inverse Modeling and Optimization of CSRR-Based Microwave Sensors for Industrial Applications. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 4796-4804.	2.9	15
212	Space-Mapping-Based Modeling Utilizing Parameter Extraction with Variable Weight Coefficients and a Data Base. , 2006, , .		14
213	Variable-Fidelity Aerodynamic Shape Optimization. Studies in Computational Intelligence, 2011, , 179-210.	0.7	14
214	Marine ecosystem model calibration with real data using enhanced surrogate-based optimization. Journal of Computational Science, 2013, 4, 423-437.	1.5	14
215	Simulation-Driven Design of Microstrip Antenna Subarrays. IEEE Transactions on Antennas and Propagation, 2014, 62, 3584-3591.	3.1	14
216	Reduced-cost microwave filter modeling using a two-stage Gaussian process regression approach. International Journal of RF and Microwave Computer-Aided Engineering, 2015, 25, 453-462.	0.8	14

#	ARTICLE	IF	CITATIONS
217	Expedited multi-objective design optimization of miniaturized microwave structures using physics-based surrogates. , 2015, , .		14
218	Variable-fidelity CFD models and co-Kriging for expedited multi-objective aerodynamic design optimization. Engineering Computations, 2016, 33, 2320-2338.	0.7	14
219	Design of high-performance hybrid branch-line couplers for wideband and space-limited applications. IET Microwaves, Antennas and Propagation, 2016, 10, 1339-1344.	0.7	14
220	Structure and EM-driven design of novel compact UWB slot antenna. IET Microwaves, Antennas and Propagation, 2017, 11, 219-223.	0.7	14
221	Supervised-Learning-Based Development of Multibit RCS-Reduced Coding Metasurfaces. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 264-274.	2.9	14
222	Frequency-Based Regularization for Improved Reliability Optimization of Antenna Structures. IEEE Transactions on Antennas and Propagation, 2021, 69, 4246-4251.	3.1	14
223	Design Space Reduction for Expedited Multi-Objective Design Optimization of Antennas in Highly Dimensional Spaces. Springer Proceedings in Mathematics and Statistics, 2014, , 113-147.	0.1	14
224	Knowledge-based performance-driven modeling of antenna structures. Knowledge-Based Systems, 2022, 237, 107698.	4.0	14
225	Generalized Formulation of Response Features for Reliable Optimization of Antenna Input Characteristics. IEEE Transactions on Antennas and Propagation, 2022, 70, 3733-3748.	3.1	14
226	Globalized parametric optimization of microwave components by means of response features and inverse metamodels. Scientific Reports, 2021, 11, 23718.	1.6	14
227	Structure generation and performance comparison of elliptic Gm-C filters. International Journal of Circuit Theory and Applications, 2004, 32, 565-589.	1.3	13
228	Editorial "surrogate modeling and space mapping for engineering optimization. Optimization and Engineering, 2008, 9, 307-310.	1.3	13
229	Generalised shape-preserving response prediction for accurate modelling of microwave structures. IET Microwaves, Antennas and Propagation, 2012, 6, 1332.	0.7	13
230	Reduced-cost microwave component modeling using space mapping-enhanced electromagnetic-based kriging surrogates. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2013, 26, 275-286.	1.2	13
231	Computational Optimization, Modelling and Simulation: Past, Present and Future. Procedia Computer Science, 2014, 29, 754-758.	1.2	13
232	Simulation-Based Design of Microstrip Linear Antenna Arrays Using Fast Radiation Response Surrogates. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 759-762.	2.4	13
233	Data-driven model based design and analysis of antenna structures. IET Microwaves, Antennas and Propagation, 2016, 10, 1428-1434.	0.7	13
234	Rapid dimension scaling for notch frequency redesign of UWB band-notch antennas. Journal of Electromagnetic Waves and Applications, 2016, 30, 2280-2292.	1.0	13

#	ARTICLE	IF	CITATIONS
235	Rapid design and size reduction of microwave couplers using variable-fidelity EM-driven optimization. International Journal of RF and Microwave Computer-Aided Engineering, 2016, 26, 27-35.	0.8	13
236	Computationally feasible narrow-band antenna modeling using response features. International Journal of RF and Microwave Computer-Aided Engineering, 2017, 27, e21077.	0.8	13
237	Reliable Multistage Optimization of Antennas for Multiple Performance Figures in Highly Dimensional Parameter Spaces. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1522-1526.	2.4	13
238	Implementation of Spatial/Polarization Diversity for Improved-Performance Circularly Polarized Multiple-Input-Multiple-Output Ultra-Wideband Antenna. IEEE Access, 2020, 8, 64112-64119.	2.6	13
239	Robust Parameter Tuning of Antenna Structures by Means of Design Specification Adaptation. IEEE Transactions on Antennas and Propagation, 2021, 69, 8790-8798.	3.1	13
240	Linearized CMOS OTA using active-error feedforward technique. , 0, , .		12
241	Efficient optimization of microwave circuits using shape-preserving response prediction. , 2009, , .		12
242	Robust Airfoil Optimization Under Inherent and Model-Form Uncertainties Using Stochastic Expansions. , 2012, , .		12
243	Multi-Fidelity Airfoil Shape Optimization with Adaptive Response Prediction. , 2012, , .		12
244	Computational-budget-driven automated microwave design optimization using variable-fidelity electromagnetic simulations. International Journal of RF and Microwave Computer-Aided Engineering, 2013, 23, 349-356.	0.8	12
245	Multiple output differential OTA with linearizing bulk-driven active-error feedback loop for continuous-time filter applications. International Journal of Circuit Theory and Applications, 2015, 43, 1671-1686.	1.3	12
246	Surrogate-based Airfoil Design with Space Mapping and Adjoint Sensitivity. Procedia Computer Science, 2015, 51, 795-804.	1.2	12
247	Systematic approach to sidelobe reduction in linear antenna arrays through corporate-feed-controlled excitation. IET Microwaves, Antennas and Propagation, 2017, 11, 779-786.	0.7	12
248	EM-driven compact cell topology selection for explicit size reduction of hybrid rat-race couplers. , 2017, , .		12
249	Miniaturisation of wideband antennas by means of feed line topology alterations. IET Microwaves, Antennas and Propagation, 2018, 12, 2128-2134.	0.7	12
250	A Simple-Topology Compact Broadband Circularly Polarized Antenna With Unidirectional Radiation Pattern. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2612-2616.	2.4	12
251	Reliable Surrogate Modeling of Antenna Input Characteristics by Means of Domain Confinement and Principal Components. Electronics (Switzerland), 2020, 9, 877.	1.8	12
252	Adaptive Response Correction for Surrogate-Based Airfoil Shape Optimization. , 2012, , .		11

#	ARTICLE	IF	CITATIONS
253	Reliable reduced cost modeling and design optimization of microwave filters using co-kriging. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2013, 26, 493-505.	1.2	11
254	Fast Low-fidelity Wing Aerodynamics Model for Surrogate-based Shape Optimization. Procedia Computer Science, 2014, 29, 811-820.	1.2	11
255	Feature-based surrogates for low-cost microwave modelling and optimisation. IET Microwaves, Antennas and Propagation, 2015, 9, 1706-1712.	0.7	11
256	Simulation-driven design of low-speed wind tunnel contraction. Journal of Computational Science, 2015, 7, 1-12.	1.5	11
257	Fast simulation-driven optimization of planar microstrip antenna arrays using surrogate superposition models. International Journal of RF and Microwave Computer-Aided Engineering, 2015, 25, 371-381.	0.8	11
258	Rapid design of microstrip antenna arrays by means of surrogate-based optimisation. IET Microwaves, Antennas and Propagation, 2015, 9, 463-471.	0.7	11
259	Low-cost surrogate-assisted statistical analysis of miniaturized microstrip couplers. Journal of Electromagnetic Waves and Applications, 2016, 30, 1345-1353.	1.0	11
260	Expedited constrained multi-objective aerodynamic shape optimization by means of physics-based surrogates. Applied Mathematical Modelling, 2016, 40, 7204-7215.	2.2	11
261	Inverse surrogate modeling for low-cost geometry scaling of microwave and antenna structures. Engineering Computations, 2016, 33, 1095-1113.	0.7	11
262	Cost-Efficient Design Optimization of Compact Patch Antennas With Improved Bandwidth. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 270-273.	2.4	11
263	Design strategies for multi-objective optimization of aerodynamic surfaces. Engineering Computations, 2017, 34, 1724-1753.	0.7	11
264	Rapid Design Closure of Linear Microstrip Antenna Array Apertures Using Response Features. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 645-648.	2.4	11
265	Generalized Pareto ranking bisection for computationally feasible multiobjective antenna optimization. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21406.	0.8	11
266	Selection of circuit geometry for miniaturized microwave components based on concurrent optimization of performance and layout area. AEU - International Journal of Electronics and Communications, 2019, 108, 287-294.	1.7	11
267	Design-oriented modeling of antenna structures by means of two-level kriging with explicit dimensionality reduction. AEU - International Journal of Electronics and Communications, 2020, 127, 153466.	1.7	11
268	Rapid Optimization of Compact Microwave Passives Using Kriging Surrogates and Iterative Correction. IEEE Access, 2020, 8, 53587-53594.	2.6	11
269	A Novel Versatile Decoupling Structure and Expedited Inverse-Model-Based Re-Design Procedure for Compact Single-and Dual-Band MIMO Antennas. IEEE Access, 2021, 9, 37656-37667.	2.6	11
270	Accurate modelling of microwave structures using shape-preserving response prediction. IET Microwaves, Antennas and Propagation, 2011, 5, 1116.	0.7	10

#	ARTICLE	IF	CITATIONS
271	Accurate low-cost microwave component models using shape-preserving response prediction. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2012, 25, 152-162.	1.2	10
272	Groin Hernia Surgery in Northern Ghana - Humanitarian Mission of Polish Surgeons in Tamale. Polski Przegląd Chirurgiczny, 2015, 87, 16-21.	0.2	10
273	Variable-resolution shape optimisation: low-fidelity model selection and scalability. International Journal of Mathematical Modelling and Numerical Optimisation, 2015, 6, 1.	0.1	10
274	Multi-Fidelity Aerodynamic Shape Optimization Using Manifold Mapping. , 2016, , .		10
275	Design Optimization and Trade-Offs of Miniaturized Wideband Antenna for Internet of Things Applications. Metrology and Measurement Systems, 2017, 24, 463-471.	1.4	10
276	Implicit Space Mapping for Variable-Fidelity EM-Driven Design of Compact Circuits. IEEE Microwave and Wireless Components Letters, 2018, 28, 275-277.	2.0	10
277	Uniform Sampling in Constrained Domains for Low-Cost Surrogate Modeling of Antenna Input Characteristics. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 164-167.	2.4	10
278	On topology modifications for wideband antenna miniaturization. AEU - International Journal of Electronics and Communications, 2018, 94, 215-220.	1.7	10
279	Novel structure and EM-driven design of miniaturized microstrip rat-race coupler. , 2018, , .		10
280	A Generalized SDP Multi-Objective Optimization Method for EM-Based Microwave Device Design. Sensors, 2019, 19, 3065.	2.1	10
281	Design-Oriented Two-Stage Surrogate Modeling of Miniaturized Microstrip Circuits With Dimensionality Reduction. IEEE Access, 2020, 8, 121744-121754.	2.6	10
282	Recent Advances in High Frequency Modeling by Means of Domain Confinement and Nested Kriging. IEEE Access, 2020, 8, 189326-189342.	2.6	10
283	On Computationally-Efficient Reference Design Acquisition for Reduced-Cost Constrained Modeling and Re-Design of Compact Microwave Passives. IEEE Access, 2020, 8, 203317-203330.	2.6	10
284	Surrogate-Assisted Design of Checkerboard Metasurface for Broadband Radar Cross-Section Reduction. IEEE Access, 2021, 9, 46744-46754.	2.6	10
285	Single- and Multipoint Aerodynamic Shape Optimization Using Multifidelity Models and Manifold Mapping. Journal of Aircraft, 2021, 58, 591-608.	1.7	10
286	Highly Miniaturized Self-Diplexed U-Shaped Slot Antenna Based on Shielded QMSIW. IEEE Access, 2021, 9, 158926-158935.	2.6	10
287	1.2V low-power four-quadrant CMOS transconductance multiplier operating in saturation region. , 0, , .		9
288	Interpolated Coarse Models for Microwave Design Optimization With Space Mapping. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1739-1746.	2.9	9

#	ARTICLE	IF	CITATIONS
289	Tuning space mapping optimization exploiting embedded surrogate elements. , 2009, , .		9
290	Computational optimization, modelling and simulationâ€”a paradigm shift. Procedia Computer Science, 2010, 1, 1297-1300.	1.2	9
291	Programmable feedforward linearized CMOS OTA for fully differential continuousâ€”time filter design. International Journal of Circuit Theory and Applications, 2010, 38, 885-899.	1.3	9
292	Space mapping algorithm with improved convergence properties for microwave design optimization. International Journal of RF and Microwave Computer-Aided Engineering, 2010, 20, 230-240.	0.8	9
293	Rapid optimization of dielectric resonator antennas using surrogate models. , 2011, , .		9
294	Transonic Airfoil Shape Optimization Using Variable-Resolution Models and Pressure Distribution Alignment. , 2011, , .		9
295	Cost-efficient electromagnetic-simulation-driven antenna design using co-Kriging. IET Microwaves, Antennas and Propagation, 2012, 6, 1521-1528.	0.7	9
296	Response correction techniques for surrogate-based design optimization of microwave structures. International Journal of RF and Microwave Computer-Aided Engineering, 2012, 22, 211-223.	0.8	9
297	Surrogate-Based Optimization. , 2013, , 41-79.		9
298	Supersonic Airfoil Shape Optimization by Variable-fidelity Models and Manifold Mapping. Procedia Computer Science, 2016, 80, 1103-1113.	1.2	9
299	Multi-objective design optimization of antennas for reflection, size, and gain variability using kriging surrogates and generalized domain segmentation. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21253.	0.8	9
300	Fast redesign and geometry scaling of multiband antennas using inverse surrogate modeling techniques. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2287.	1.2	9
301	Simulationâ€”driven sizeâ€”reductionâ€”oriented design of multiâ€”band antennas by means of response features. IET Microwaves, Antennas and Propagation, 2018, 12, 1093-1098.	0.7	9
302	Accelerated design optimization of miniaturized microwave passives by design reusing and Kriging interpolation surrogates. AEU - International Journal of Electronics and Communications, 2020, 118, 153165.	1.7	9
303	On Decomposition-Based Surrogate-Assisted Optimization of Leaky Wave Antenna Input Characteristics for Beam Scanning Applications. IEEE Access, 2021, 9, 161318-161325.	2.6	9
304	Expedited Gradient-Based Design Closure of Antennas Using Variable-Resolution Simulations and Sparse Sensitivity Updates. IEEE Transactions on Antennas and Propagation, 2022, 70, 4925-4930.	3.1	9
305	Reduced-cost two-level surrogate antenna modeling using domain confinement and response features. Scientific Reports, 2022, 12, 4667.	1.6	9
306	Analysis of OTAâ€” filters with weakly nonlinear transconductors. International Journal of Circuit Theory and Applications, 2008, 36, 789-811.	1.3	8

#	ARTICLE	IF	CITATIONS
307	Multi-fidelity design optimization of transonic airfoils using shape-preserving response prediction. <i>Procedia Computer Science</i> , 2010, 1, 1311-1320.	1.2	8
308	Efficient optimization of microwave structures through design specifications adaptation. , 2010, , .		8
309	Computational Optimization: An Overview. <i>Studies in Computational Intelligence</i> , 2011, , 1-11.	0.7	8
310	Multilevel microwave design optimization with automated model fidelity adjustment. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2014, 24, 281-288.	0.8	8
311	Crosstalk suppression bandwidth optimisation of a vertically coupled ring resonator add/drop filter. <i>IET Optoelectronics</i> , 2015, 9, 30-36.	1.8	8
312	Fast Simulation-Driven Design Optimization of UWB Band-Notch Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016, 15, 926-929.	2.4	8
313	Rapid dimension scaling of dual-band antennas using variable-fidelity EM models and inverse surrogates. <i>Journal of Electromagnetic Waves and Applications</i> , 2017, 31, 297-308.	1.0	8
314	Rapid dimension scaling of compact microwave couplers with power split correction. , 2017, , .		8
315	Reduced-Cost Constrained Miniaturization of Wideband Antennas Using Improved Trust-Region Gradient Search With Repair Step. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 559-562.	2.4	8
316	Statistical analysis and robust design of circularly polarized antennas using sequential approximate optimization. , 2018, , .		8
317	Improved-Efficacy Optimization of Compact Microwave Passives by Means of Frequency-Related Regularization. <i>IEEE Access</i> , 2020, 8, 195317-195326.	2.6	8
318	Reduced-Cost Microwave Design Closure by Multi-Resolution EM Simulations and Knowledge-Based Model Management. <i>IEEE Access</i> , 2021, 9, 116326-116337.	2.6	8
319	Accelerated parameter tuning of antenna structures using inverse and f<sup>e</sup>-based forward kriging surrogates. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2021, 34, e2880.	1.2	8
320	Application of Open-Hardware-Based Solutions for Rapid Transition From Stationary to the Remote Teaching Model During Pandemic. <i>IEEE Transactions on Education</i> , 2021, 64, 299-307.	2.0	8
321	Surrogate-Based Optimization. <i>SpringerBriefs in Optimization</i> , 2014, , 13-24.	0.3	8
322	Automated Low-Fidelity Model Setup for Surrogate-Based Aerodynamic Optimization. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014, , 87-111.	0.1	8
323	Low-cost data-driven modelling of microwave components using domain confinement and PCA-based dimensionality reduction. <i>IET Microwaves, Antennas and Propagation</i> , 2020, 14, 1643-1650.	0.7	8
324	On EM-Driven Size Reduction of Antenna Structures With Explicit Constraint Handling. <i>IEEE Access</i> , 2021, 9, 165766-165772.	2.6	8

#	ARTICLE	IF	CITATIONS
325	Wideband Highly-Selective Bandpass Filtering Branch-Line Coupler. IEEE Access, 2022, 10, 20832-20838.	2.6	8
326	Design Centering of Compact Microwave Components Using Response Features and Trust Regions. Energies, 2021, 14, 8550.	1.6	8
327	Tolerance Optimization of Antenna Structures by Means of Response Feature Surrogates. IEEE Transactions on Antennas and Propagation, 2022, 70, 10988-10997.	3.1	8
328	Continuous-time active-RC filter model for computer-aided design and optimization. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 1292-1301.	0.1	7
329	Trust-region-based convergence safeguards for space mapping design optimization of microwave circuits. , 2009, , .		7
330	Computationally efficient simulation-driven design of a printed 2.45 GHz Yagi antenna. Microwave and Optical Technology Letters, 2010, 52, 1807-1810.	0.9	7
331	Shape-preserving response prediction for microwave circuit modeling. , 2010, , .		7
332	Inverse Design of Transonic Airfoils Using Variable-Resolution Modeling and Pressure Distribution Alignment. Procedia Computer Science, 2011, 4, 1234-1243.	1.2	7
333	Robust space mapping optimization exploiting EM-based models with adjoint sensitivities. , 2012, , .		7
334	Highly linear CMOS triode transconductor for VHF applications. IET Circuits, Devices and Systems, 2012, 6, 9.	0.9	7
335	Antenna design using variable-fidelity electromagnetic simulations. International Journal of Applied Electromagnetics and Mechanics, 2013, 43, 169-183.	0.3	7
336	Inverse airfoil design using variable-resolution models and shape-preserving response prediction. Aerospace Science and Technology, 2014, 39, 513-522.	2.5	7
337	Cost-effective global surrogate modeling of planar microwave filters using multi-fidelity bayesian support vector regression. International Journal of RF and Microwave Computer-Aided Engineering, 2014, 24, 11-17.	0.8	7
338	Multi-Objective Design Optimization of Planar Yagi-Uda Antenna Using Physics-Based Surrogates and Rotational Design Space Reduction. Procedia Computer Science, 2015, 51, 885-894.	1.2	7
339	Fast EM-driven design optimization of microwave filters using adjoint sensitivity and response features. , 2015, , .		7
340	A review of implicit space mapping optimization and modeling techniques. , 2015, , .		7
341	Size reduction of microwave couplers by EM-driven optimization. , 2015, , .		7
342	Strategies for computationally feasible multi-objective simulation-driven design of compact RF/microwave components. Engineering Computations, 2016, 33, 184-201.	0.7	7

#	ARTICLE	IF	CITATIONS
343	Rapid Multi-Objective Aerodynamic Design Using Co-Kriging and Space Mapping. , 2016, , .		7
344	Surrogate-assisted design optimization of photonic directional couplers. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2088.	1.2	7
345	Fast surrogate-assisted frequency scaling of planar antennas with circular polarisation. IET Microwaves, Antennas and Propagation, 2019, 13, 602-607.	0.7	7
346	Rapid multi-objective design of integrated on-chip inductors by means of Pareto front exploration and design extrapolation. Journal of Electromagnetic Waves and Applications, 2019, 33, 1416-1426.	1.0	7
347	EM-driven constrained miniaturization of antennas using adaptive in-band reflection acceptance threshold. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2513.	1.2	7
348	Expedited Design Closure of Antenna Input Characteristics by Trust Region Gradient Search and Principal Component Analysis. IEEE Access, 2020, 8, 8502-8511.	2.6	7
349	Explicit Size-Reduction of Circularly Polarized Antennas Through Constrained Optimization With Penalty Factor Adjustment. IEEE Access, 2021, 9, 132390-132396.	2.6	7
350	EM-Driven Multi-Objective Optimization of a Generic Monopole Antenna by Means of a Nested Trust-Region Algorithm. Applied Sciences (Switzerland), 2021, 11, 3958.	1.3	7
351	Cost-Efficient EM-Driven Size Reduction of Antenna Structures by Multi-Fidelity Simulation Models. Electronics (Switzerland), 2021, 10, 1536.	1.8	7
352	Expedited Acquisition of Database Designs for Reduced-Cost Performance-Driven Modeling and Rapid Dimension Scaling of Antenna Structures. IEEE Transactions on Antennas and Propagation, 2021, 69, 4975-4987.	3.1	7
353	Numerically Efficient Approach to Simulation-Driven Design of Planar Microstrip Antenna Arrays By Means of Surrogate-Based Optimization. Springer Proceedings in Mathematics and Statistics, 2014, , 149-170.	0.1	7
354	Introduction to Surrogate Modeling and Surrogate-Based Optimization. , 2016, , 31-61.		7
355	Design specification management with automated decision-making for reliable optimization of miniaturized microwave components. Scientific Reports, 2022, 12, 829.	1.6	7
356	Overview of Metamaterials-Integrated Antennas for Beam Manipulation Applications: The Two Decades of Progress. IEEE Access, 2022, 10, 67096-67116.	2.6	7
357	Rapid design centering of multi-band antennas using knowledge-based inverse models and response features. Knowledge-Based Systems, 2022, 252, 109360.	4.0	7
358	CPU-budget-driven automated microwave design optimization using variable-fidelity electromagnetic simulations. , 2012, , .		6
359	Multipoint Response Correction for Reduced-Cost EM-Simulation-Driven Design of Antenna Structures. Microwave and Optical Technology Letters, 2013, 55, 2070-2074.	0.9	6
360	Variable-fidelity optimization of antennas using adjoint sensitivities. , 2014, , .		6

#	ARTICLE	IF	CITATIONS
361	Surrogate-Based Airfoil Design with Multi-Level Optimization and Adjoint Sensitivity. , 2015, , .		6
362	Objective Selection of Minimum Acceptable Mesh Refinement for EMC Simulations. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 1266-1269.	1.4	6
363	Surrogate modeling for expedited two-objective geometry scaling of miniaturized microwave passives. International Journal of RF and Microwave Computer-Aided Engineering, 2016, 26, 531-537.	0.8	6
364	A structure and design optimization of novel compact microstrip dual-band rat-race coupler with enhanced bandwidth. Microwave and Optical Technology Letters, 2016, 58, 2287-2291.	0.9	6
365	Electromagnetic-simulation-driven design of compact ultra-wideband multiple-input-multiple-output antenna. IET Microwaves, Antennas and Propagation, 2016, 10, 1721-1724.	0.7	6
366	Surrogate-assisted multi-objective optimization of compact microwave couplers. Journal of Electromagnetic Waves and Applications, 2016, 30, 2067-2075.	1.0	6
367	Precise control of reflection response in bandwidth-enhanced planar antennas. International Journal of RF and Microwave Computer-Aided Engineering, 2016, 26, 653-659.	0.8	6
368	Fast surrogate-assisted simulation-driven optimization of compact microwave hybrid couplers. Engineering Optimization, 2016, 48, 1109-1120.	1.5	6
369	Computationally-efficient surrogate-assisted dimension scaling of compact dual-band couplers. IET Microwaves, Antennas and Propagation, 2017, 11, 465-470.	0.7	6
370	Rapid Design Optimization of Multi-Band Antennas by Means of Response Features. Metrology and Measurement Systems, 2017, 24, 337-346.	1.4	6
371	Space mapping: Performance, reliability, open problems and perspectives. , 2017, , .		6
372	Improved trust-region gradient-search algorithm for accelerated optimization of wideband antenna input characteristics. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21576.	0.8	6
373	Cost-efficient surrogate modeling of high-frequency structures using nested kriging with automated adjustment of model domain lateral dimensions. AEU - International Journal of Electronics and Communications, 2020, 121, 153224.	1.7	6
374	Design of High-Performance Scattering Metasurfaces Through Optimization-Based Explicit RCS Reduction. IEEE Access, 2021, 9, 113077-113088.	2.6	6
375	Rapid Multi-Criterial Antenna Optimization by Means of Pareto Front Triangulation and Interpolative Design Predictors. IEEE Access, 2021, 9, 35670-35680.	2.6	6
376	Simulation-Driven Design in Microwave Engineering: Methods. Studies in Computational Intelligence, 2011, , 153-178.	0.7	6
377	Variable-fidelity response feature surrogates for accelerated statistical analysis and yield estimation of compact microwave components. IET Microwaves, Antennas and Propagation, 2019, 13, 2539-2543.	0.7	6
378	Design and Implementation of a Dual-Band Filtering Wilkinson Power Divider Using Coupled T-Shaped Dual-Band Resonators. Energies, 2022, 15, 1189.	1.6	6

#	ARTICLE	IF	CITATIONS
379	Miniaturized Metal-Mountable U-Shaped Inductive-Coupling-Fed UHF RFID Tag Antenna With Defected Microstrip Surface. IEEE Access, 2022, 10, 47301-47308.	2.6	6
380	Dynamic range, noise and linearity optimization of continuous-time OTA-C filters. , 0, , .		5
381	Implementable space mapping approach to enhancement of microwave device models. , 2005, , .		5
382	Space Mapping Optimization Algorithms for Engineering Design. , 2006, , .		5
383	Improving Efficiency of Space Mapping Optimization of Microwave Structures and Devices. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	5
384	Controlling Convergence of Space-Mapping Algorithms for Engineering Optimization. , 2007, , .		5
385	Rapid design optimisation of microwave structures through automated tuning space mapping. IET Microwaves, Antennas and Propagation, 2010, 4, 1892.	0.7	5
386	Low-cost modeling of microwave structures using shape-preserving response prediction. , 2011, , .		5
387	Reliable design optimization of microwave structures using multipoint-response-correction space mapping and trust regions. International Journal of RF and Microwave Computer-Aided Engineering, 2011, 21, 534-542.	0.8	5
388	Low-cost design optimization of antennas using adjoint sensitivity. , 2012, , .		5
389	Local response surface approximations and variable-fidelity electromagnetic simulations for computationally efficient microwave design optimisation. IET Microwaves, Antennas and Propagation, 2012, 6, 1056.	0.7	5
390	Robust design of UWB antennas using response surface approximations and manifold mapping. , 2012, , .		5
391	Rapid multi-objective optimization of a MIMO antenna for UWB applications. , 2014, , .		5
392	Low-cost feature-based modeling of microwave structures. , 2014, , .		5
393	Cost-efficient modeling of antenna structures using Gradient-Enhanced Kriging. , 2015, , .		5
394	Application of Physics-Based Surrogate Models to Benchmark Aerodynamic Shape Optimization Problems. , 2015, , .		5
395	Surrogate-based miniaturization-oriented design of two-section branch-line couplers. , 2016, , .		5
396	Accurate simulation-driven modeling and design optimization of compact microwave structures. , 2016, , .		5

#	ARTICLE	IF	CITATIONS
397	Suppressing Side-Lobes of Linear Phased Array of Micro-Strip Antennas with Simulation-Based Optimization. Metrology and Measurement Systems, 2016, 23, 193-203.	1.4	5
398	Response features and circuit decomposition for accelerated EM-driven design of compact impedance matching transformers. Microwave and Optical Technology Letters, 2016, 58, 2130-2133.	0.9	5
399	Accurate design-oriented simulation-driven modeling of miniaturized microwave structures. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2016, 29, 1028-1035.	1.2	5
400	On ultra-wideband antenna miniaturization involving efficiency and matching constraints. , 2017, , .		5
401	Quantitative assessment of wideband antenna geometry modifications for size-reduction-oriented design. AEU - International Journal of Electronics and Communications, 2018, 90, 45-52.	1.7	5
402	Miniaturized uniplanar triple-band slot dipole antenna with folded radiator. Microwave and Optical Technology Letters, 2018, 60, 386-389.	0.9	5
403	Multi-objective design optimization of antenna structures using sequential domain patching with automated patch size determination. Engineering Optimization, 2018, 50, 218-234.	1.5	5
404	Rapid design closure of microwave components by means of feature-based optimization and adjoint sensitivities. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21182.	0.8	5
405	Response features for low-cost statistical analysis and tolerance-aware design of antennas. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2297.	1.2	5
406	Low-cost and reliable geometry scaling of compact microstrip couplers with respect to operating frequency, power split ratio, and dielectric substrate parameters. IET Microwaves, Antennas and Propagation, 2018, 12, 1508-1513.	0.7	5
407	A three-dimensional periodic beam for vibroacoustic isolation purposes. Mechanical Systems and Signal Processing, 2019, 130, 524-544.	4.4	5
408	Cost-efficient performance-driven modelling of multi-band antennas by variable-fidelity electromagnetic simulations and customized space mapping. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2020, 33, e2778.	1.2	5
409	Improved-Efficacy EM-Based Antenna Miniaturization by Multi-Fidelity Simulations and Objective Function Adaptation. Energies, 2022, 15, 403.	1.6	5
410	Performance-Driven Yield Optimization of High-Frequency Structures by Kriging Surrogates. Applied Sciences (Switzerland), 2022, 12, 3697.	1.3	5
411	Fast EM-driven parameter tuning of microwave circuits with sparse sensitivity updates via principal directions. Knowledge-Based Systems, 2022, 252, 109388.	4.0	5
412	Structure generation and performance comparison of canonical elliptic G/sub m/-C filters. , 0, , .		4
413	Distributed fine model evaluation for rapid space-mapping optimisation of microwave structures. IET Microwaves, Antennas and Propagation, 2009, 3, 798.	0.7	4
414	Improved microwave circuit design using multipoint-response-correction space mapping and trust Regions. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
415	Shape-preserving response prediction for microwave circuit modeling. , 2010, , .		4
416	Variable-fidelity aerodynamic shape optimisation of single-element airfoils at high-lift conditions. International Journal of Mathematical Modelling and Numerical Optimisation, 2011, 2, 194.	0.1	4
417	Design of novel microstrip directional coupler for differential signal decoupling. IET Microwaves, Antennas and Propagation, 2012, 6, 721.	0.7	4
418	Computational Optimization, Modelling and Simulation: Smart Algorithms and Better Models. Procedia Computer Science, 2012, 9, 852-856.	1.2	4
419	A space mapping schematic for fast EM-based modeling and design. , 2012, , .		4
420	Physics-based Surrogates for Low-cost Modeling of Microwave Structures. Procedia Computer Science, 2013, 18, 869-878.	1.2	4
421	Shape-preserving response prediction with adjoint sensitivities for microwave design optimization. , 2013, , .		4
422	Multi-point response correction for cost-efficient antenna and microwave design optimization. , 2013, , .		4
423	A New Coupler Concept for Contactless High-Speed Data Transmission Monitoring. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 328-334.	2.4	4
424	Simulation-Driven Design of Broadband Antennas Using Surrogate-Based Optimization. , 2013, , 159-189.		4
425	Feature-based statistical analysis for rapid yield estimation of microwave structures. , 2014, , .		4
426	Automated inverse design of bandpass filters with invariable layout through linear approximation of physical dimensions. , 2014, , .		4
427	A concept and design optimization of compact planar UWB monopole antenna. , 2014, , .		4
428	Small antenna design using surrogate-based optimization. , 2014, , .		4
429	Phase-spacing optimization of linear microstrip antenna arrays using simulation-based surrogate superposition models. International Journal of RF and Microwave Computer-Aided Engineering, 2015, 25, 536-547.	0.8	4
430	Rapid hierarchical simulation-driven design of compact multi-section branch-line couplers. , 2015, , .		4
431	Expedited microstrip linear antenna array design using radiation response surrogates. , 2015, , .		4
432	Low-cost EM-driven surrogate modeling and optimization of planar inductors. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
433	Efficient Multi-Objective Aerodynamic Optimization by Design Space Dimension Reduction and Co-Kriging. , 2016, , .		4
434	Direct and Surrogate-Based Optimization of Dual-Rotor Wind Turbines. , 2016, , .		4
435	Surrogate Modeling of Ultrasonic Nondestructive Evaluation Simulations. Procedia Computer Science, 2016, 80, 1114-1124.	1.2	4
436	Fast and precise geometry scaling of miniaturized microstrip couplers with unequal power split. , 2016, , .		4
437	A novel structure and design optimization of miniaturized UWB slot antenna. , 2016, , .		4
438	EM-simulation-driven design optimization of compact microwave structures using multi-fidelity simulation models and adjoint sensitivities. International Journal of RF and Microwave Computer-Aided Engineering, 2016, 26, 442-448.	0.8	4
439	Low-cost multi-objective optimization and experimental validation of UWB MIMO antenna. Engineering Computations, 2016, 33, 1246-1258.	0.7	4
440	Airfoil Design Under Uncertainty Using Non-Intrusive Polynomial Chaos Theory and Utility Functions. Procedia Computer Science, 2017, 108, 1493-1499.	1.2	4
441	Low-cost surrogate modeling for rapid design optimization of antenna structures. , 2017, , .		4
442	Multi-objective EM-based design optimization of compact branch-line coupler. , 2017, , .		4
443	Rapid statistical analysis and tolerance-aware design of antennas by response feature surrogates. , 2017, , .		4
444	Local optimization of a Sierpinski carpet fractal antenna. , 2017, , .		4
445	On systematic design of corporate feeds for chebyshev microstrip linear antenna arrays. , 2017, , .		4
446	Multi-objective mixed-integer design optimization of planar inductors using surrogate modeling techniques. , 2017, , .		4
447	Reduced-cost surrogate modeling of input characteristics and design optimization of dual-band antennas using response features. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21194.	0.8	4
448	Distribution Network Reconfiguration for Voltage Stability Enhancement via Feasibility-Preserving Evolutionary Optimization. , 2018, , .		4
449	Novel structure and design of enhanced bandwidth hybrid quadrature patch coupler. Microwave and Optical Technology Letters, 2018, 60, 3073-3076.	0.9	4
450	Power loss reduction through distribution network reconfiguration using feasibility-preserving simulated annealing. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
451	Ground plane modifications for design of miniaturised UWB antennas. IET Microwaves, Antennas and Propagation, 2018, 12, 1360-1366.	0.7	4
452	Nested Kriging with Variable Domain Thickness for Rapid Surrogate Modeling and Design Optimization of Antennas. Electronics (Switzerland), 2020, 9, 1621.	1.8	4
453	Fast and reliable knowledge-based design closure of antennas by means of iterative prediction-correction scheme. Engineering Computations, 2021, 38, 3710-3731.	0.7	4
454	Space Mapping for Electromagnetic-Simulation-Driven Design Optimization. , 2013, , 1-25.		4
455	Multi-Objective Aeroacoustic Shape Optimization by Variable-Fidelity Models and Response Surface Surrogates. , 2015, , .		4
456	Physics-based Multi-fidelity Surrogate Modeling with Entropy-based Availability Methods. , 2014, , .		4
457	Performance Optimization of EBG-Based Common Mode Filters for Signal Integrity Applications. Springer Proceedings in Mathematics and Statistics, 2016, , 111-133.	0.1	4
458	Optimization-based robustness enhancement of compact microwave component designs with response feature regression-surrogates. Knowledge-Based Systems, 2022, 240, 108161.	4.0	4
459	Mixed problems for hyperbolic functional differential equations with unbounded delay. Nonlinear Analysis: Theory, Methods & Applications, 2004, 58, 489-515.	0.6	3
460	Antenna Design through Space Mapping Optimization. , 2006, , .		3
461	Coarse models for efficient space mapping optimisation of microwave structures. IET Microwaves, Antennas and Propagation, 2010, 4, 453.	0.7	3
462	ANN and space mapping for microwave modelling and optimization. , 2010, , .		3
463	Adaptively constrained parameter extraction for robust space mapping optimization of microwave circuits. , 2010, , .		3
464	Space-mapping modelling of microwave devices using multi-fidelity electromagnetic simulations. IET Microwaves, Antennas and Propagation, 2011, 5, 324.	0.7	3
465	Robust optimization of microwave structures using cosimulation-based surrogate models. Microwave and Optical Technology Letters, 2011, 53, 130-135.	0.9	3
466	Design of broadband transitions for substrate integrated circuits. Microwave and Optical Technology Letters, 2011, 53, 2942-2945.	0.9	3
467	On space mapping optimization with coarsely-discretized EM coarse models. , 2011, , .		3
468	Improved variable-fidelity optimization algorithm for simulation-driven design of antennas. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
469	Variable-Resolution Shape Optimization: Low-Fidelity Model Setup and Algorithm Scalability. , 2012, , .		3
470	Low-cost design optimization of slot antennas using Bayesian support vector regression and space mapping. , 2012, , .		3
471	Reduced-cost design optimization of antenna structures using adjoint sensitivity. Microwave and Optical Technology Letters, 2012, 54, 2594-2597.	0.9	3
472	Advances in simulation-driven optimization and modeling. Journal of Computational Methods in Sciences and Engineering, 2012, 12, 1-4.	0.1	3
473	Derivative-free microwave design optimisation using shape-preserving response prediction and space mapping. IET Science, Measurement and Technology, 2012, 6, 13.	0.9	3
474	A statistical input space mapping approach for accommodating modeling residuals. , 2013, , .		3
475	Gaussian process antenna modeling using neighborhood-data-expanded training sets. , 2013, , .		3
476	Novel structure and EM-driven design of small UWB monopole antenna. , 2014, , .		3
477	Trawl-Door Design Optimization by Local Surrogate Models. , 2014, , .		3
478	Low-cost EM-simulation-driven Multi-objective Optimization of Antennas. Procedia Computer Science, 2014, 29, 790-799.	1.2	3
479	Expedited design optimization of compact microwave structures using adjoint sensitivities and space mapping. , 2015, , .		3
480	Efficient knowledge-based optimization of expensive computational models using adaptive response correction. Journal of Computational Science, 2015, 11, 1-11.	1.5	3
481	Antenna array optimization using surrogate-model aware evolutionary algorithm with local search. , 2015, , .		3
482	Computationally-efficient multi-objective optimization of antenna structures using point-by-point Pareto set identification and local approximation surrogates. , 2015, , .		3
483	Accelerated geometry optimization of compact impedance matching transformers using decomposition and adjoint sensitivities. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2016, 29, 1140-1148.	1.2	3
484	Low-cost dimension scaling and tuning of microwave filters using response features. , 2016, , .		3
485	A Novel Structure and Design Optimization of Compact Spline-Parameterized UWB Slot Antenna. Metrology and Measurement Systems, 2016, 23, 637-643.	1.4	3
486	Low-fidelity model considerations for EM-driven design of antenna structures. Journal of Electromagnetic Waves and Applications, 2016, 30, 2444-2458.	1.0	3

#	ARTICLE	IF	CITATIONS
487	Enhancement of circular polarization quality of single-patch two-input microstrip antennas. Journal of Electromagnetic Waves and Applications, 2016, 30, 767-779.	1.0	3
488	Rapid simulation-driven design of miniaturised dual-band microwave couplers by means of adaptive response scaling. IET Microwaves, Antennas and Propagation, 2016, 10, 1135-1140.	0.7	3
489	Low-cost multi-objective design of compact microwave structures using domain patching. , 2016, , .		3
490	Trawl-door Shape Optimization by Space-mapping-corrected CFD Models and Kriging Surrogates. Procedia Computer Science, 2016, 80, 1061-1070.	1.2	3
491	On deterministic procedures for low-cost multi-objective design optimization of miniaturized impedance matching transformers. Engineering Computations, 2017, 34, 403-419.	0.7	3
492	Aerodynamic Design of the RAE 2822 in Transonic Viscous Flow: Single- and Multi-point Optimization Studies. , 2017, , .		3
493	Implicit space mapping with substrate segmentation for reliable antenna optimization. , 2017, , .		3
494	A High-Efficient Measurement System With Optimization Feature for Prototype CMOS Image Sensors. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2363-2372.	2.4	3
495	Aerodynamic Design Exploration through Point-By-Point Pareto Set Identification using Local Surrogate Models. , 2018, , .		3
496	A novel miniaturized UWB monopole with five-section stepped impedance feed line. Microwave and Optical Technology Letters, 2018, 60, 202-207.	0.9	3
497	Multiobjective Optimization for Switch Allocation in Radial Power Distribution Grids. , 2018, , .		3
498	Analysis of circular polarization antenna design trade-offs using low-cost EM-driven multiobjective optimization. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21483.	0.8	3
499	Low-fidelity model considerations for simulation-based optimisation of miniaturised wideband antennas. IET Microwaves, Antennas and Propagation, 2018, 12, 1613-1619.	0.7	3
500	EM-driven topology evolution for bandwidth enhancement of hybrid quadrature patch couplers. , 2018, , .		3
501	Rapid Multi-band Patch Antenna Yield Estimation Using Polynomial Chaos-Kriging. Lecture Notes in Computer Science, 2019, , 487-494.	1.0	3
502	Enhanced uniform data sampling for constrained data-driven modeling of antenna input characteristics. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2584.	1.2	3
503	Fast tolerance-aware design optimization of miniaturized microstrip couplers using variable-fidelity EM simulations and response features. Engineering Computations, 2019, 36, 2983-2995.	0.7	3
504	Computationally Efficient Performance-Driven Surrogate Modeling of Microwave Components Using Principal Component Analysis. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
505	Variable-fidelity modeling of antenna input characteristics using domain confinement and two-stage Gaussian process regression surrogates. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2020, 33, e2758.	1.2	3
506	Optimization-Based Antenna Miniaturization Using Adaptively Adjusted Penalty Factors. Electronics (Switzerland), 2021, 10, 1751.	1.8	3
507	Aerodynamic Shape Optimization by Space Mapping. , 2013, , 213-245.		3
508	Hydrodynamic Shape Optimization of Axisymmetric Bodies Using Multi-fidelity Modeling. Advances in Intelligent Systems and Computing, 2013, , 209-223.	0.5	3
509	Simulation-Driven Antenna Design Using Surrogate-Based Optimization. , 2013, , 51-80.		3
510	Low-cost multi-criteria design optimization of compact microwave passives using constrained surrogates and dimensionality reduction. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, e2855.	1.2	3
511	Numerically Efficient Miniaturization-Oriented Optimization of an Ultra-Wideband Spline-Parameterized Antenna. IEEE Access, 2022, 10, 21608-21618.	2.6	3
512	Design of a Coplanar Waveguide-Fed Wideband Compact-Size Circularly Polarized Antenna and polarization-sense alteration. Wireless Networks, 2022, 28, 1797-1804.	2.0	3
513	EM-driven size reduction and multi-criterial optimization of broadband circularly-polarized antennas using pareto front traversing and design extrapolation. Scientific Reports, 2022, 12, .	1.6	3
514	Evolutionary algorithm for electronic systems partitioning and its applications in VLSI design. , 0, , .		2
515	A 3.3 V linear fully balanced CMOS operational transconductance amplifier for high-frequency applications. , 0, , .		2
516	Noise analysis and optimization of continuous-time active-RC filters. , 0, , .		2
517	Space mapping with distributed fine model evaluation for optimization of microwave structures and devices. , 2008, , .		2
518	Response corrected tuning space mapping for yield estimation and design centering. , 2010, , .		2
519	Estimation of multiple surface cracks parameters using MFL testing. , 2010, , .		2
520	Simulation-driven design of dielectric resonator antenna with reduced board noise emission. , 2011, , .		2
521	Role of constraints in surrogate-based design optimisation of microwave structures. IET Microwaves, Antennas and Propagation, 2011, 5, 588.	0.7	2
522	Computationally efficient design optimization of wideband planar antennas using Cauchy approximation and space mapping. Microwave and Optical Technology Letters, 2011, 53, 618-622.	0.9	2

#	ARTICLE	IF	CITATIONS
523	Fast space mapping modeling with adjoint sensitivity. , 2011, , .		2
524	Fast simulation-driven design of microwave structures using improved variable-fidelity optimization technique. Engineering Optimization, 2012, 44, 1007-1019.	1.5	2
525	Reliable low-cost co-kriging modeling of microwave devices. , 2012, , .		2
526	Numerical Optimization and Experimental Validation of a Low Speed Wind Tunnel Contraction. Procedia Computer Science, 2012, 9, 822-831.	1.2	2
527	Scaling Properties of Multi-Fidelity Shape Optimization Algorithms. Procedia Computer Science, 2012, 9, 832-841.	1.2	2
528	Accurate modeling of microwave structures using generalized shape-preserving response prediction. , 2012, , .		2
529	A study of basic slot antenna configurations using simulation-driven optimization. , 2012, , .		2
530	Antenna modeling using space-mapping corrected cauchy approximation surrogates. Microwave and Optical Technology Letters, 2012, 54, 37-40.	0.9	2
531	Single-model versus ensemble-model strategies for efficient Gaussian process surrogate modeling of antenna input characteristics. , 2013, , .		2
532	Multi-objective design of UWB antennas using surrogate-based optimization. , 2013, , .		2
533	Multi-level design optimization of microwave structures with automated model fidelity adjustment. , 2013, , .		2
534	Phase-spacing optimization of linear microstrip antenna arrays by EM-based superposition models. , 2014, , .		2
535	Low-cost multi-objective optimization of Yagi-Uda antenna in multi-dimensional parameter space. , 2014, , .		2
536	Microstrip antenna subarray design through simulation-driven surrogate optimization. , 2014, , .		2
537	Fast design of microstrip antenna arrays exploiting surrogate models. , 2014, , .		2
538	Design of microstrip antenna subarrays: a simulation-driven surrogate-based approach. , 2014, , .		2
539	Multi-objective design of antenna structures using variable-fidelity EM simulations and co-kriging. , 2014, , .		2
540	Expedite design optimization of narrow-band antennas using response features. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
541	Full-wave computer-aided optimization of wireless power transfer systems. , 2014, , .		2
542	Cost-efficient dual-stage Gaussian process modeling of antennas. , 2014, , .		2
543	Fast multi-objective antenna design through variable-fidelity EM simulations. , 2014, , .		2
544	Simulation-driven design of planar filters using response surface approximations and space mapping. , 2014, , .		2
545	Multi-objective optimization of Cassegrain reflector feeds using space mapping surrogate models. , 2015, , .		2
546	Rapid design optimization of microwave filters using variable-fidelity EM simulations and adjoint sensitivity. , 2015, , .		2
547	Efficient design optimization of compact dual-band microstrip branch-line coupler using response features. , 2015, , .		2
548	Geometry scaling of dual-band antennas through inverse surrogate models. , 2016, , .		2
549	Scalability of surrogate-assisted multi-objective optimization of antenna structures exploiting variable-fidelity electromagnetic simulation models. Engineering Optimization, 2016, 48, 1778-1792.	1.5	2
550	Variable-fidelity design optimization of antennas with automated model selection. , 2016, , .		2
551	On design optimization of miniaturized microstrip dual-band rat-race coupler with enhanced bandwidth. , 2016, , .		2
552	A structure and computationally-efficient design closure of compact spline-parameterized UWB monopole antenna. , 2016, , .		2
553	Computationally efficient design closure of miniaturized impedance matching transformers using response features. International Journal of RF and Microwave Computer-Aided Engineering, 2016, 26, 396-401.	0.8	2
554	Simulation-driven design of compact ultra-wideband antenna structures. Engineering Computations, 2016, 33, 1051-1069.	0.7	2
555	Fast Multi-Objective Aerodynamic Optimization Using Space-Mapping-Corrected Multi-Fidelity Models and Kriging Interpolation. Springer Proceedings in Mathematics and Statistics, 2016, , 55-73.	0.1	2
556	Approach to axial ratio improvement for circularly polarised microstrip patch antennas excited via two inputs. IET Microwaves, Antennas and Propagation, 2016, 10, 770-776.	0.7	2
557	Sidelobe reduction in linear antenna arrays with corporate-feeds of non-uniform power distribution. , 2017, , .		2
558	Accelerated multi-objective design optimization of antennas by surrogate modeling and domain segmentation. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
559	On elementary cell selection for miniaturized microstrip rat-race coupler design. , 2017, , .		2
560	Implicit space mapping with variable-fidelity EM simulations and substrate partitioning for reliable microwave design optimization. , 2017, , .		2
561	Reliable low-cost surrogate modeling and design optimisation of antennas using implicit space mapping with substrate segmentation. IET Microwaves, Antennas and Propagation, 2017, 11, 2066-2070.	0.7	2
562	Rapid dimension scaling of triple-band antennas by means of inverse surrogate modeling. , 2017, , .		2
563	Rapid surrogate-assisted design optimization of minimum-size broadband branch-line couplers with variable topology. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21255.	0.8	2
564	RANS-based design optimization of dual-rotor wind turbines. Engineering Computations, 2018, 35, 35-52.	0.7	2
565	Surrogate-assisted EM-driven miniaturization of wideband microwave couplers by means of co-simulation low-fidelity models. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21152.	0.8	2
566	Recent advances in rapid multiobjective optimization of expensive simulation models in microwave and antenna engineering by Pareto front exploration. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21190.	0.8	2
567	Accelerated Design Optimization of Antenna Structures Using Adaptive Response Scaling. , 2018, , .		2
568	Design and EM-driven Optimization Of A Compact Low Profile Circularly Polarized Wide-slot CPW-fed Antenna For Broadband Applications. , 2018, , .		2
569	Expedited EM-driven generation of Pareto-optimal trade-off curves for variable-turn on-chip inductors. IET Microwaves, Antennas and Propagation, 2018, 12, 1205-1210.	0.7	2
570	Accelerated EM-Driven Microwave Optimization By Means Of Design Re-Utilization. , 2019, , .		2
571	Design and Optimization of a Novel Compact Broadband Linearly/Circularly Polarized Wide-Slot Antenna for WLAN and WiMAX Applications. Radioengineering, 2019, 27, 19-24.	0.3	2
572	Dual-band antenna with improved gain for WLAN and ISM applications. Electronics Letters, 2019, 55, 237-239.	0.5	2
573	Fast multi-objective design optimization of microwave and antenna structures using data-driven surrogates and domain segmentation. Engineering Computations, 2019, 37, 753-788.	0.7	2
574	Accelerated Antenna Optimization Using Gradient Search with Selective Broyden Updates. , 2019, , .		2
575	Fast Yield Estimation of Multi-Band Patch Antennas by PC-Kriging. , 2019, , .		2
576	Computationally-Efficient and Reliable Surrogate Modeling of Antenna Structures Using Performance-Driven Nested Kriging. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
577	Surrogate-assisted tolerance analysis of low-sidelobe linear arrays with microstrip corporate feeds. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2533.	1.2	2
578	Fast geometry scaling of miniaturized microwave couplers with power split correction. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21485.	0.8	2
579	On Inadequacy of Sequential Design of Experiments for Performance-Driven Surrogate Modeling of Antenna Input Characteristics. IEEE Access, 2020, 8, 78417-78426.	2.6	2
580	Rapid Microwave Optimization Using a Design Database and Inverse/Forward Metamodels. , 2020, , .		2
581	Rapid redesign of multiband antennas with respect to operating conditions and material parameters of substrate. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2020, 33, e2723.	1.2	2
582	Kriging metamodels and design re-utilization for fast parameter tuning of antenna structures. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, .	1.2	2
583	Compact 4 × 4 Butler matrix with non-standard phase differences for IoT applications. Electronics Letters, 2021, 57, 387-389.	0.5	2
584	Low-Cost Unattended Design of Miniaturized 4 × 4 Butler Matrices with Nonstandard Phase Differences. Sensors, 2021, 21, 851.	2.1	2
585	On Rapid Re-Design of UWB Antennas with Respect to Substrate Permittivity. Metrology and Measurement Systems, 2016, 23, 513-520.	1.4	2
586	Space Mapping Optimization and Modeling of Microwave Devices with MEFiSTo. Springer Proceedings in Physics, 2008, , 393-407.	0.1	2
587	Nested Space Mapping Technique for Design and Optimization of Complex Microwave Structures with Enhanced Functionality. Springer Proceedings in Mathematics and Statistics, 2014, , 53-86.	0.1	2
588	Design and Architecture Selection of Corporate Feeds Comprising Equal-Split Power Dividers for Low-Sidelobe Arrays. , 2020, , .		2
589	Design and Characterization of a Planar Structure Wideband Millimeter-Wave Antenna With Wide Beamwidth for Wearable Off-Body Communication Applications. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 2070-2074.	2.4	2
590	Sensitivity properties of all-pole canonical low-pass G/sub m/-C filters. , 0, , .		1
591	Sensitivity comparison of high-order all-pole G/sub m/-C filters in canonical structures. , 0, , .		1
592	Application of adaptive evolutionary algorithm for low power design of CMOS digital circuits. , 0, , .		1
593	Reducing average and peak temperatures of VLSI CMOS circuits by means of evolutionary algorithm applied to high level synthesis. Microelectronics Journal, 2003, 34, 1167-1174.	1.1	1
594	Adaptive space mapping with convergence enhancement for optimization of microwave structures and devices. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
595	Space Mapping Algorithm with Improved Convergence Properties for Microwave Optimization. , 2008, , .		1
596	Three-dimensional defect reconstruction from MFL signals using space mapping optimization... , 2009, , .		1
597	Fast Space Mapping with Variable Weight Coefficients for Microwave Device Modeling. , 2009, , .		1
598	A Simple ADS Schematic for Space Mapping. , 2009, , .		1
599	Special issue on advances in design optimization of microwave/RF circuits and systems. International Journal of RF and Microwave Computer-Aided Engineering, 2010, 20, 473-474.	0.8	1
600	Fast design of UWB antennas using electromagnetic models. , 2011, , .		1
601	LOW-COST PARAMETER EXTRACTION AND SURROGATE OPTIMIZATION FOR SPACE MAPPING DESIGN USING EM-BASED COARSE MODELS. Progress in Electromagnetics Research B, 2011, 31, 117-137.	0.7	1
602	Modeling and optimization of microwave structures using quick space mapping with variable weight coefficients. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2011, 24, 175-193.	1.2	1
603	Robust optimization of microwave structures using co-simulation-based surrogate models. , 2011, , .		1
604	Fast simulation-driven design of antennas using shape-preserving response prediction. , 2011, , .		1
605	Reduced-cost Bayesian support vector regression modeling and optimization of planar slot antennas. , 2012, , .		1
606	Accurate modeling of antennas using variable-fidelity EM simulations and co-kriging. , 2012, , .		1
607	Selecting model fidelity for antenna design using surrogate-based optimization. , 2012, , .		1
608	Efficient simulation-driven design optimization of antennas using co-kriging. , 2012, , .		1
609	Variable-fidelity simulation-driven design optimisation of microwave structures. International Journal of Mathematical Modelling and Numerical Optimisation, 2012, 3, 64.	0.1	1
610	Low-Fidelity Model Mesh Density and the Performance of Variable-Resolution Shape Optimization Algorithms. Procedia Computer Science, 2012, 9, 842-851.	1.2	1
611	Antenna design using surrogate models and adjoint sensitivity. , 2012, , .		1
612	End-fire array synthesis using gradient-based numerical optimization with analytical derivatives. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
613	Knowledge-Based Response Correction and Adaptive Design Specifications for Microwave Design Optimization. <i>Procedia Computer Science</i> , 2012, 9, 764-773.	1.2	1
614	Simulation-driven design using surrogate-based optimization and variable-resolution computational fluid dynamic models. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2012, 12, 75-98.	0.1	1
615	Comparative study of space-mapping-based techniques for microwave design optimisation. <i>IET Microwaves, Antennas and Propagation</i> , 2012, 6, 361.	0.7	1
616	Enhanced fidelity modeling of microwave structures combining shape-preserving response prediction with space mapping. , 2013, , .		1
617	Shape-Preserving Response Prediction for Engineering Design Optimization. <i>Procedia Computer Science</i> , 2013, 18, 879-888.	1.2	1
618	Multimode interference power divider design optimization using simulation-based surrogate models and space mapping. , 2013, , .		1
619	Design optimization of microstrip antenna arrays using surrogate-based methodology. , 2013, , .		1
620	Multi-objective design optimization of planar Yagi antenna using surrogate models. , 2013, , .		1
621	EM-simulation-driven antenna design using multi-point response correction. , 2013, , .		1
622	Expedited microstrip antenna array design through surrogate-based optimization. , 2014, , .		1
623	Automated Low-fidelity Model Selection for CFD-based Aerodynamic Shape Optimization. , 2014, , .		1
624	Surrogate-based optimization of efficient resonant wireless power transfer links using conjugate image impedances. , 2014, , .		1
625	Nested Space Mapping Technology for Expedite EM-driven Design of Compact RF/Microwave Components. <i>Procedia Computer Science</i> , 2014, 29, 769-778.	1.2	1
626	Accurate modeling of microwave structures using variable-fidelity response features. , 2015, , .		1
627	Fast multi-objective optimization of shaped offset Gregorian reflector systems. , 2015, , .		1
628	Recent developments in simulation-driven multi-objective design of antennas. <i>Bulletin of the Polish Academy of Sciences: Technical Sciences</i> , 2015, 63, 781-789.	0.8	1
629	Fast multi-objective design optimization of compact UWB matching transformers using variable-fidelity EM simulations and design space reduction. , 2015, , .		1
630	Expedited geometry scaling of antenna structures by means of inverse surrogate modeling. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
631	A structure and fast design of compact UWB antenna with upper WLAN band-notch. , 2015, , .		1
632	Rapid simulation-based design of covered planar microstrip patch antenna arrays by means of radiation response surrogates. , 2015, , .		1
633	Rapid simulation-driven design of UWB antennas using surrogate-based optimization. , 2015, , .		1
634	Aerodynamic Shape Optimization by Variable-fidelity Models and Gradient-Enhanced Manifold Mapping. , 2016, , .		1
635	Fast geometry scaling of UWB band-notch antennas. , 2016, , .		1
636	Rapid surrogate-assisted statistical analysis of compact microstrip couplers. , 2016, , .		1
637	Cost-efficient modeling of input characteristics of narrow-band antennas using response features. , 2016, , .		1
638	Automated design of circularly polarized microstrip patch antennas with improved axial ratio. , 2016, , .		1
639	Automated simulation-driven design tuning of circularly polarized microstrip patch antennas. , 2016, , .		1
640	Fast re-design of antenna structures with respect to substrate permittivity and thickness. , 2016, , .		1
641	Rapid adjoint-based design optimization of compact microwave structures using multi-fidelity simulation models. , 2016, , .		1
642	Sequential Domain Patching for Computationally Feasible Multi-objective Optimization of Expensive Electromagnetic Simulation Models. Procedia Computer Science, 2016, 80, 1093-1102.	1.2	1
643	Expedited design of dual-band antennas using feature-based optimization. , 2016, , .		1
644	Reduced-cost modeling of dual-band antennas exploiting response features. , 2016, , .		1
645	Minimization of power supply-interruption-related costs in power distribution grids using evolutionary methods. , 2016, , .		1
646	On low-cost space mapping optimization of antenna structures. , 2016, , .		1
647	Size-reduction-oriented design of compact CPW-Fed UWB monopole antenna. , 2016, , .		1
648	Design Optimization by Manifold Mapping Response Correction and Low-Fidelity Model Preconditioning. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
649	Expedite Design of Variable-Topology Broadband Hybrid Couplers for Size Reduction Using Surrogate-Based Optimization and Co-Simulation Coarse Models. <i>Procedia Computer Science</i> , 2017, 108, 1483-1492.	1.2	1
650	Adaptive response prediction for aerodynamic shape optimization. <i>Engineering Computations</i> , 2017, 34, 1485-1500.	0.7	1
651	Fast optimization of quasi-periodic slow-wave structures with applications to broadband microwave coupler miniaturization. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2017, 30, e2211.	1.2	1
652	Accelerated design of CMRC-Based compact rat-race couplers by inverse surrogate modeling. , 2017, , .		1
653	A miniaturized <scp>UWB</scp> monopole antenna with five-section ground plane slit. <i>Microwave and Optical Technology Letters</i> , 2018, 60, 1001-1005.	0.9	1
654	Low-cost multiband compact branch-line coupler design using response features and automated EM model fidelity adjustment. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018, 28, e21233.	0.8	1
655	Point-by-point Pareto front exploration and adjoint sensitivities for rapid multi-objective optimization of compact impedance matching transformers. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2018, 31, e2350.	1.2	1
656	Expedited Frequency Scaling of Circular Polarization Antennas by Inverse and Forward Surrogates. , 2018, , .		1
657	Low-Cost Simulation-Driven Design of Broadband Rectifiers for Ambient RF Energy Harvesting. , 2018, , .		1
658	On Feed Line Modifications for Compact Wideband Antenna Design. , 2018, , .		1
659	On compact wideband antenna design using topology modifications. , 2018, , .		1
660	Design optimization of novel compact circular polarization antenna. , 2018, , .		1
661	Domain segmentation for low-cost surrogate-assisted multi-objective design optimisation of antennas. <i>IET Microwaves, Antennas and Propagation</i> , 2018, 12, 1728-1735.	0.7	1
662	Topological modifications for performance improvement and size reduction of wideband antenna structures. , 2018, , .		1
663	A novel dual-band rectifier circuit with enhanced bandwidth for RF energy harvesting applications. , 2018, , .		1
664	Comprehensive dimension scaling of multi-band antennas for operating frequencies and substrate parameters. , 2018, , .		1
665	Constrained optimisation for generating gain-bandwidth design trade-offs of wideband unidirectional antennas. <i>IET Microwaves, Antennas and Propagation</i> , 2019, 13, 1017-1022.	0.7	1
666	Rapid Yield Optimization of Compact Microwave Couplers By Means Of Variable-Fidelity Response Features. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
667	Expedited Design Optimization of Antenna Input Characteristics Using Trust-Region Search with Adaptive Jacobian Updates. , 2019, , .		1
668	Surrogate Modeling of High-Frequency Structures Using Nested Kriging and Improved Sampling Strategy. , 2019, , .		1
669	Accelerated Re-Design of Antenna Structures Using Sensitivity-Based Inverse Surrogates. IEEE Access, 2020, 8, 75154-75162.	2.6	1
670	Normalized Partial Scattering Cross Section for Performance Evaluation of Low-Observability Scattering Structures. Electronics (Switzerland), 2021, 10, 1731.	1.8	1
671	Iterative Global Sensitivity Analysis Algorithm with Neural Network Surrogate Modeling. Lecture Notes in Computer Science, 2021, , 298-311.	1.0	1
672	Recent Advances in Performance-Driven Surrogate Modeling of High-Frequency Structures. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2020, 33, e2706.	1.2	1
673	Knowledge-Based Variable-Fidelity Optimization of Expensive Objective Functions through Space Mapping. Adaptation, Learning, and Optimization, 2010, , 85-109.	0.5	1
674	Airfoil Shape Optimization Using Variable-Fidelity Modeling and Shape-Preserving Response Prediction. Studies in Computational Intelligence, 2011, , 99-124.	0.7	1
675	Shape-Preserving Response Prediction for Surrogate Modeling and Engineering Design Optimization. Springer Proceedings in Mathematics and Statistics, 2014, , 25-51.	0.1	1
676	Efficient Design of Inline E-Plane Waveguide Extracted Pole Filters Through Enhanced Equivalent Circuits and Space Mapping. Advances in Intelligent Systems and Computing, 2015, , 185-197.	0.5	1
677	Two-Stage Gaussian Process Modeling of Microwave Structures for Design Optimization. Springer Proceedings in Mathematics and Statistics, 2016, , 161-184.	0.1	1
678	Expedited Simulation-Driven Multi-Objective Design Optimization of Quasi-Isotropic Dielectric Resonator Antenna. Springer Proceedings in Mathematics and Statistics, 2016, , 207-231.	0.1	1
679	Simulation-Driven Design. , 2016, , 7-13.		1
680	Low-Cost Antenna Surrogates By Domain Confinement and Principal Components. , 2020, , .		1
681	Low-Cost Surrogate Modeling of Compact Microstrip Circuits in Highly-Dimensional Parameters Spaces Using Variable-Fidelity Nested Co-Kriging. , 2020, , .		1
682	Inverse Surrogates for Accelerated Simulation-Driven Design. , 2020, , 341-390.		1
683	Accelerated Antenna Optimization Using Design Database and Kriging Surrogates. , 2020, , .		1
684	Reliable Modeling of Antenna Input Characteristics by Means of Domain Confinement and Variable-Fidelity EM Simulations. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
685	On geometry parameterization for simulation-driven design closure of antenna structures. Scientific Reports, 2021, 11, 24304.	1.6	1
686	Highly-Miniaturized Dual-Mode Bandpass Filter Based on Quarter-Mode Substrate Integrated Waveguide With Wide Stopband. IEEE Access, 2022, 10, 42163-42170.	2.6	1
687	Low-Cost Feature-Based Tolerance Optimization of Multi-Band Antennas. , 2022, , .		1
688	Overview of Approaches for Compensating Inherent Metamaterials Losses. IEEE Access, 2022, 10, 67058-67080.	2.6	1
689	Application of hybrid evolutionary partitioning algorithm for heat transfer enhancement in VLSI circuits. , 0, , .		0
690	Hybrid evolutionary partitioning algorithm for heat transfer enhancement in VLSI circuits. Microelectronics Journal, 2002, 33, 739-746.	1.1	0
691	Canonic structures of odd-order elliptic $G/\text{sub } m\text{-}C$ filters. , 0, , .		0
692	Algebraic model of continuous-time $G/\text{sub } m\text{-}LC$ filters and applications. , 0, , .		0
693	Tolerance analysis of continuous-time $G/\text{sub } m\text{-}C$ filters. , 0, , .		0
694	General active-RC filter model for computer-aided design and optimization. , 0, , .		0
695	Programmable linearized CMOS OTA for fully differential continuous-time filter design. , 2008, , .		0
696	Multi-fidelity space mapping modeling of microwave devices with double coarse model processing and functional approximation. , 2009, , .		0
697	Efficient design optimization of UWB antennas using cauchy approximation and space mapping. , 2010, , .		0
698	Multi-fidelity optimization of microwave structures using low-order local Cauchy-Approximation surrogates. , 2010, , .		0
699	Constrained space mapping for design optimization of microwave circuits. , 2010, , .		0
700	Space mapping with co-simulation coarse model for accurate modeling of microwave structures. , 2010, , .		0
701	Response corrected tuning space mapping for yield estimation and design centering. , 2010, , .		0
702	Design of dielectric resonator antennas using surrogate optimization. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
703	Antenna design through variable-fidelity simulation-driven optimization. , 2011, , .		0
704	Coarse-mesh EM models for design of SIC and planar transitions. , 2011, , .		0
705	Electromagnetics-based CAD and optimization of microwave circuits exploiting time-domain techniques. , 2011, , .		0
706	Efficient Gaussian process modelling and optimization of slot antennas using a multi-fidelity approach for training data reduction. , 2011, , .		0
707	Fast microwave design optimisation using shape-preserving response prediction and coarse-discretisation EM models. IET Microwaves, Antennas and Propagation, 2011, 5, 175.	0.7	0
708	Computational optimization, modelling and simulation: Recent advances and overview. Procedia Computer Science, 2011, 4, 1230-1233.	1.2	0
709	Simulation-Driven Design of Antennas Using Coarse-Discretization Electromagnetic Models. Procedia Computer Science, 2011, 4, 1252-1261.	1.2	0
710	Antenna modeling using space-mapping corrected Cauchy-approximation surrogates. , 2011, , .		0
711	Computationally efficient simulation-driven antenna design using coarse-discretization electromagnetic models. , 2011, , .		0
712	Wideband antenna design through variable-fidelity EM simulations. , 2012, , .		0
713	Model management for efficient EM-simulation-driven design of dielectric resonator antennas. , 2012, , .		0
714	Surrogate-Based Shape Optimization of Low-Speed Wind Tunnel Contractions. , 2012, , .		0
715	Low-Cost Design of Transonic Airfoils Using Variable-Fidelity Surrogates. , 2012, , .		0
716	End-fire array enhancement with gradient-based numerical optimization. , 2012, , .		0
717	Low-cost variable fidelity Bayesian support vector machine modeling of planar slot antennas. , 2012, , .		0
718	Space mapping and beyond: Knowledge-driven microwave design optimization. , 2012, , .		0
719	Parameter identification in climate models using surrogate-based optimization. Journal of Computational Methods in Sciences and Engineering, 2012, 12, 47-62.	0.1	0
720	Decomposition, Response Surface Approximations, and Space Mapping for EM-Driven Design of Microwave Filters. Microwave and Optical Technology Letters, 2013, 55, 2137-2141.	0.9	0

#	ARTICLE	IF	CITATIONS
721	Enhancing radiation response of ultrawideband monopoles using surrogate-based optimization. , 2013, , .		0
722	Low-cost design of SIW cavity antennas using surrogate-based optimization. , 2013, , .		0
723	Accurate modeling of wideband antennas using variable-fidelity simulations, kriging and parameterized response correction. , 2013, , .		0
724	Introduction to Optimization and Gradient-Based Methods. , 2013, , 1-18.		0
725	Space Mapping. , 2013, , 81-105.		0
726	Variable-fidelity optimization of UWB antennas with automated model fidelity selection. , 2013, , .		0
727	Desing optimization of omnidirectional antennas using the AADS technique and kriging. , 2013, , .		0
728	EM-driven multi-objective optimization of antenna structures in multi-dimensional design spaces. , 2014, , .		0
729	Call for Papers: Advances in simulation-driven modeling and optimization of microwave/RF circuits. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014, 27, 702-702.	1.2	0
730	Local-global space mapping for rapid EM-driven design of compact RF structures. , 2014, , .		0
731	A maximally flat quadratic interpolation enhanced input space mapping modeling approach. , 2014, , .		0
732	Low-cost EM-Simulation-based Multi-objective Design Optimization of Miniaturized Microwave Structures. , 2014, , .		0
733	Simulation-Driven Aerodynamic Shape Optimization with Automated Low-Fidelity Model Setup. , 2014, , .		0
734	Computationally Efficient Multi-Objective Optimization of and Experimental Validation of Yagi-Uda Antenna. , 2014, , .		0
735	Adjoint-Enhanced Multi-Level Optimization: Investigation of Algorithm Parameter Settings. , 2015, , .		0
736	Multi-objective design of compact RF/microwave components using decomposition and surrogate modeling. , 2015, , .		0
737	Rigorous design of wireless power transfer links with one transmitter and two receivers. , 2015, , .		0
738	Multi-objective design optimization of compact quasi-isotropic dielectric resonator antenna. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
739	Iterative determination of conjugate image impedances for N-port networks. , 2015, , .		0
740	Fast design optimization of UWB antenna with WLAN band-notch. , 2015, , .		0
741	Sidelobe suppression of planar microstrip arrays by simulation-based phase- and position-only adjustment. , 2015, , .		0
742	Fast multi-objective antenna optimization using sequential patching and variable-fidelity EM models. , 2015, , .		0
743	A novel wideband microstrip branch-line coupler with compact footprint. , 2015, , .		0
744	Cost-efficient simulation-driven design of compact impedance matching transformers. , 2016, , .		0
745	Rapid simulation-driven design of compact photonic Y-junction by variable-dimensional sequential approximate optimization. , 2016, , .		0
746	Surrogate-Assisted Design Optimization Using Response Features. , 2016, , 147-163.		0
747	Rapid multi-objective design optimization of miniaturized impedance transformer by Pareto front exploration. , 2016, , .		0
748	Multi-objective optimization of microwave couplers using corrected domain patching. , 2016, , .		0
749	Inverse surrogate models for fast geometry scaling of miniaturized dual-band couplers. , 2016, , .		0
750	Advances in electromagnetics-based design optimization. , 2016, , .		0
751	Reflection response control of bandwidth-enhanced antennas through constrained optimization. , 2016, , .		0
752	Multi-objective optimization of compact UWB impedance matching transformers using Pareto front exploration and adjoint sensitivities. , 2016, , .		0
753	Performance comparison of compact UWB antennas through multi-objective optimization. , 2016, , .		0
754	Physics-Based Surrogate Modeling Using Response Correction. , 2016, , 211-243.		0
755	Multi-objective Optimization Using Variable-Fidelity Models and Response Correction. , 2016, , 193-210.		0
756	Fundamentals of Numerical Optimization. , 2016, , 15-29.		0

#	ARTICLE	IF	CITATIONS
757	Axial ratio improvement of circular polarized dielectric resonator antennas with dual-point feeds. , 2016, , .		0
758	Computationally Efficient Design Optimization of Compact Microwave and Antenna Structures. Studies in Computational Intelligence, 2016, , 171-199.	0.7	0
759	A novel structure and design of compact UWB slot antenna. , 2016, , .		0
760	Cost-efficient Microwave Design Optimization Using Adaptive Response Scaling. Procedia Computer Science, 2016, 80, 1042-1050.	1.2	0
761	Optimization procedure for removable EBG common mode filter design. , 2016, , .		0
762	Expedited Dimension Scaling of Microwave and Antenna Structures Using Inverse Surrogates. Procedia Computer Science, 2016, 80, 1051-1060.	1.2	0
763	Geometry scaling of UWB antennas with respect to material properties of the substrate. , 2016, , .		0
764	Response-correction-based fault detection in small linear microstrip patch arrays using magnitude-only far-field pattern samples. International Journal of RF and Microwave Computer-Aided Engineering, 2016, 26, 683-689.	0.8	0
765	Multi-objective antenna design using sequential domain patching with automated determination of patch size. , 2016, , .		0
766	Fast design optimization of UWB antennas using response features. , 2016, , .		0
767	Expedited two-objective dimension scaling of compact microwave passives using surrogate models. , 2016, , .		0
768	Patch size setup and performance/cost trade-offs in multi-objective antenna optimization using domain patching technique. , 2016, , .		0
769	Reduced-cost data-driven modeling of antenna structures. , 2016, , .		0
770	Response features for fast EM-driven design of miniaturized impedance matching transformers. , 2016, , .		0
771	A structure and design of a novel compact UWB MIMO antenna. , 2016, , .		0
772	Expedited EM-driven design optimization of compact dual-band microwave couplers using adaptive response scaling. , 2016, , .		0
773	Design of circular polarized DRAs with improved axial ratio bandwidth. , 2016, , .		0
774	RANS-based Shape Optimization of Dual-Rotor Wind Turbines using Variable-fidelity Models. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
775	A structure and design of novel compact UWB slot antenna. , 2016, , .		0
776	Optimization-driven design of compact UWB MIMO antenna. , 2016, , .		0
777	Cost-efficient multi-objective design optimization of antennas in highly-dimensional parameter spaces. , 2016, , .		0
778	Novel structure and design of compact UWB slot antenna. , 2016, , .		0
779	Adjoint-Based Nonlinear Output Space Mapping for Accelerated Aerodynamic Shape Optimization. , 2017, , .		0
780	Multi-objective EM-driven design of integrated spiral inductors by Pareto front exploration. , 2017, , .		0
781	Patch size setup and performance/cost trade-offs in multi-objective EM-driven antenna optimization using sequential domain patching. Engineering Computations, 2017, 34, 1070-1081.	0.7	0
782	Sidelobe reduction in linear microstrip arrays driven through microstrip corporate feeds. , 2017, , .		0
783	Reliable assessment of topological modifications in <scp>UWB</scp> antennas by means of multi-objective optimization. Microwave and Optical Technology Letters, 2017, 59, 1493-1499.	0.9	0
784	Low-cost Antenna Positioning System Designed with Axiomatic Design. MATEC Web of Conferences, 2017, 127, 01015.	0.1	0
785	Statistical-Analysis-Based Setup of Physics-based Surrogates and Optimization Process Resolution for Variable-Fidelity Aerodynamic Design. , 2017, , .		0
786	Robust Airfoil Design Optimization Using Stochastic Expansions and Utility Theory. , 2017, , .		0
787	Accelerated multi-objective design of integrated spiral inductors using Pareto front extrapolation. , 2017, , .		0
788	Pareto ranking bisection algorithm for rapid multi-objective design of antenna structures. , 2017, , .		0
789	On explicit size reduction of UWB antennas through EM-driven optimization. , 2017, , .		0
790	EM-driven design of recurrent slow-wave structures. , 2017, , .		0
791	Multi-objective design of miniaturized impedance transformers by domain segmentation. , 2017, , .		0
792	An improved procedure for simulation-driven miniaturization of antenna structures. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
793	Fast multi-criterial statistical analysis and design optimization of compact microwave couplers. , 2017, , .		0
794	Pareto Ranking Bisection Algorithm for EM-Driven Multi-Objective Design of Antennas in Highly-Dimensional Parameter Spaces. Procedia Computer Science, 2017, 108, 1453-1462.	1.2	0
795	Multi-objective optimization for assessment of topological modification in UWB antennas. , 2017, , .		0
796	Size reduction of ultra-wideband antennas with efficiency and matching constraints. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2336.	1.2	0
797	Design Trade-Offs of Compact Circular Polarization Antennas by Means of Multi-Objective Optimization. , 2018, , .		0
798	Surrogate-Assisted Multi-Objective Antenna Design with Equal-Compartment-Size Segmentation. , 2018, , .		0
799	Multi-Objective Design of Antennas Using Variable-Fidelity EM Models and Constrained Surrogates. , 2018, , .		0
800	Fast Design Tuning of Linear Microstrip Antenna Array Apertures By Means Of Response Features. , 2018, , .		0
801	Comparison of Topology Modification for Size-Reduction-Oriented Wideband Antenna Design. , 2018, , .		0
802	Fast Uncertainty Propagation of Ultrasonic Testing Simulations for MAPOD and Sensitivity Analysis. , 2018, , .		0
803	Multi-Objective Design of Compact Microwave Components with Data-Driven Surrogates and Pareto Front Decomposition. , 2018, , .		0
804	Reliable EM-Driven Design optimization of Miniaturized Rat-Race Couplers. , 2018, , .		0
805	Fast Design Optimization of Wideband Antennas Using EM-Driven Adaptive Response Scaling. , 2018, , .		0
806	Surrogate-Assisted Desing of Low-Sidelobe Microstrip Linear Arrays with Corporate Feeds. , 2018, , .		0
807	Systematic Study of Feed Line and Ground Plane Modifications for Design of Miniaturized Wideband Antennas. , 2018, , .		0
808	Multifidelity Modeling of Ultrasonic Testing Simulations with Cokriging. , 2018, , .		0
809	Surrogate-Assisted Tolerance Analysis of Microstrip Linear Arrays with Corporate Feeds. , 2018, , .		0
810	Rapid Design of Compact Impedance Matching Transformers for Energy Harvesting Applications by Means of Inverse and Forward Surrogates. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
811	Low-Cost Multi-Objective Optimization of Antennas By Means Of Generalized Pareto Ranking Bisection Algorithm. , 2018, , .		0
812	Miniaturization of Wideband Antennas by Means of Ground Plane Modifications: A Case Study. , 2018, , .		0
813	Rapid Design of Compact Impedance Matching Transformers for Energy Harvesting Applications by Means of Inverse and Forward Surrogates. , 2018, , .		0
814	Variable-fidelity shape optimization of dual-rotor wind turbines. Engineering Computations, 2018, 35, 2514-2542.	0.7	0
815	Design of A Novel Compact Structure of A Wide-Slot Circularly Polarized Antenna. , 2018, , .		0
816	On low-fidelity models for variable-fidelity simulation-driven design optimization of compact wideband antennas. , 2018, , .		0
817	Three-objective antenna optimization by means of kriging surrogates and domain segmentation. , 2018, , .		0
818	Uniform sampling procedure for constrained surrogate modeling of antenna structures. , 2018, , .		0
819	Bandwidthâ€size design tradeâ€offs for compact splineâ€parameterised patch couplers by means of electromagneticâ€driven multiâ€objective optimisation. IET Microwaves, Antennas and Propagation, 2019, 13, 1921-1927.	0.7	0
820	Reduced-Cost Gradient-Based Optimization of Compact Microwave Components through Adaptive Broyden Updates. , 2019, , .		0
821	Low-Cost and Reliable Yield Estimation of Miniaturized Microwave Couplers Using Variable-Fidelity Simulations and Response Features. , 2019, , .		0
822	Low-Cost Analysis of Size-Bandwidth Trade-Offs for Compact Rat-Race Couplers Using Surrogate-Assisted Multi-Objective Optimization. , 2019, , .		0
823	Reduced-Cost Design Optimization of High-Frequency Structures Using Adaptive Jacobian Updates. Lecture Notes in Computer Science, 2019, , 508-522.	1.0	0
824	Design Reusing for Expedited Design Optimization of Antenna Structures. , 2019, , .		0
825	An Ultra-Wideband Circularly Polarized Multiple-Input Multiple-Output Antenna with Polarization Diversity. , 2019, , .		0
826	Expedited EM-Driven Optimization of Antenna Structures Using Gradient Search with Jacobian Change and Design Relocation Monitoring. , 2019, , .		0
827	Surrogateâ€assisted design of microstrip corporate feeds integrated with linear microstrip array apertures for required sidelobe levels. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2532.	1.2	0
828	A bisectionâ€based heuristic for rapid EMâ€driven multiobjective design of compact impedance transformers. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2523.	1.2	0

#	ARTICLE	IF	CITATIONS
829	Low-Cost Surrogate Modeling of Miniaturized Microwave Components Using Nested Kriging. , 2020, , .		0
830	A framework for accelerated optimization of antennas using design database and initial parameter set estimation. Engineering Computations, 2020, 37, 2487-2500.	0.7	0
831	Fast Globalized Gradient-Based Optimization of Multi-Band Antennas By Means Smart Jacobian Updates and Response Features. , 2020, , .		0
832	Editorial for the special issue on advances in forward and inverse surrogate modeling for high-frequency design. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2020, 33, e2813.	1.2	0
833	Improved Design Closure of Compact Microwave Circuits by Means of Performance Requirement Adaptation. Lecture Notes in Computer Science, 2021, , 185-199.	1.0	0
834	High-Isolation Compact Wideband MIMO Antennas for 5G Wireless Communication. Signals and Communication Technology, 2021, , 131-144.	0.4	0
835	Accurate Modeling of Antenna Structures by Means of Domain Confinement and Gradient-Enhanced Kriging. , 2021, , .		0
836	Robust Design of Antenna Structures by Means of Domain-Confined Metamodels. , 2021, , .		0
837	Expedited Trust-Region-Based Design Closure of Antennas by Variable-Resolution EM Simulations. Lecture Notes in Computer Science, 2021, , 91-104.	1.0	0
838	On Fast Multi-objective Optimization of Antenna Structures Using Pareto Front Triangulation and Inverse Surrogates. Lecture Notes in Computer Science, 2021, , 116-130.	1.0	0
839	Marine Ecosystem Model Calibration through Enhanced Surrogate-Based Optimization. Advances in Intelligent Systems and Computing, 2013, , 193-208.	0.5	0
840	Low-Fidelity Antenna Models. SpringerBriefs in Optimization, 2014, , 45-52.	0.3	0
841	Efficient Design Optimization of Microwave Structures Using Adjoint Sensitivity. Advances in Intelligent Systems and Computing, 2014, , 333-346.	0.5	0
842	Methodologies for Variable-Fidelity Optimization of Antenna Structures. SpringerBriefs in Optimization, 2014, , 25-43.	0.3	0
843	Wing Shape Optimization Using Local Response Surface Approximations, Space Mapping and Physics-Based Surrogates. , 2014, , .		0
844	Simulation-Based UWB Antenna Design. SpringerBriefs in Optimization, 2014, , 53-59.	0.3	0
845	Antenna Optimization with Surrogates and Adjoint Sensitivities. SpringerBriefs in Optimization, 2014, , 93-104.	0.3	0
846	Surrogate-Based Optimization of Microstrip Broadband Antennas. SpringerBriefs in Optimization, 2014, , 73-81.	0.3	0

#	ARTICLE	IF	CITATIONS
847	The contact-less method of chip-to-chip high speed data transmission monitoring. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2014, 62, 61-68.	0.8	0
848	Computationally-Efficient EM-Simulation-Driven Multi-objective Design of Compact Microwave Structures. Advances in Intelligent Systems and Computing, 2015, , 235-250.	0.5	0
849	Analysis of positioning error and its impact on high frequency properties of differential signal coupler. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2015, 63, 549-553.	0.8	0
850	Enhancing Response Correction Techniques by Adjoint Sensitivity. , 2016, , 165-191.		0
851	Design Optimization Using Response Correction Techniques. , 2016, , 63-74.		0
852	Expedited Simulation-Driven Optimization Using Adaptively Adjusted Design Specifications. , 2016, , 131-146.		0
853	Surrogate-Based Optimization Using Parametric Response Correction. , 2016, , 75-98.		0
854	Surrogate-Based Multi-Objective Optimization of Compact Microwave Couplers. Przegląd Elektrotechniczny, 2016, 1, 75-78.	0.1	0
855	On Fast Optimization of Quasi-Periodic Slow-Wave Structures: Application to Broadband Microwave Coupler Miniaturization. Przegląd Elektrotechniczny, 2016, 1, 71-74.	0.1	0
856	Editorial for the special issue on advances in simulation-driven modeling and optimization of microwave/RF circuits. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2201.	1.2	0
857	Explicit Size-Reduction-Oriented Design of a Compact Microstrip Rat-Race Coupler Using Surrogate-Based Optimization Methods. Lecture Notes in Computer Science, 2018, , 584-592.	1.0	0
858	Reduced-Cost Gradient-Based optimization of Compact Impedance Matching Transformers in Highly-Dimensional Parameters Spaces. , 2019, , .		0
859	Constrained Modeling for Efficient Multi-objective Optimization. , 2020, , 277-314.		0
860	Physics-Based Surrogate Modeling. , 2020, , 59-128.		0
861	Metamodels and Iterative Design Correction for Rapid Optimization of Compact Microwave Components. , 2020, , .		0
862	Antenna Modeling by Nested Kriging with Automated Domain Thickness Determination. , 2020, , .		0
863	Constrained Modeling Using Principal Component Analysis. , 2020, , 227-247.		0
864	Reduced-Cost Constrained Modeling of Microwave and Antenna Components: Recent Advances. Lecture Notes in Computer Science, 2020, , 40-56.	1.0	0

#	ARTICLE	IF	CITATIONS
865	Nested Kriging Modeling. , 2020, , 179-205.		0
866	Warm-Start Design Optimization. , 2020, , 315-340.		0
867	Design-Oriented Modeling of High-Frequency Structures. , 2020, , 129-152.		0
868	Feature-Based Constrained Modeling. , 2020, , 207-225.		0
869	Domain-Constrained Metamodels for Expedited Robust Design of Compact Microwave Components. , 2021, , .		0
870	Constrained Surrogates and Dimensionality Reduction for Low-Cost Multi-Objective Optimization of Compact Microwave Components. , 2021, , .		0
871	Low-Cost Antenna Optimization by Means of Gradient Search and Principal Components. , 2021, , .		0
872	Correlation Reduction in Closely-Spaced MIMO Antenna With Circular Polarization Diversity. , 2020, , .		0
873	Nested Kriging Surrogates for Rapid Multi-Objective Optimization of Compact Microwave Components. , 2020, , .		0
874	Fast Antenna Optimization Using Gradient Monitoring and Variable-Fidelity EM Models. , 2020, , .		0
875	On the Design of Circularly Polarized MIMO Antenna with Polarization Diversity. , 2020, , .		0
876	Warm-Start Expedited Optimization of Antenna Structures Using Kriging Surrogates and Iterative Correction Scheme. , 2020, , .		0
877	Low-Cost Design Optimization of Antennas with Peripheral Components. , 2020, , .		0
878	Two-Level Antenna Modeling with Domain Confinement and Explicit Dimensionality Reduction. , 2021, , .		0
879	Planar Broadband Dual-Sense Circularly Polarized Multiple-Input-Multiple-Output Antenna for IoT Integrated Systems. , 2021, , .		0
880	Low-Cost Antenna Modeling Using Constrained Domains with Adaptive Lateral Dimensions. , 2021, , .		0