

Slawomir Koziel

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6732459/slawomir-koziel-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

693
papers

7,250
citations

39
h-index

61
g-index

906
ext. papers

9,800
ext. citations

2.2
avg, IF

7.16
L-index

#	Paper	IF	Citations
693	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. <i>IEEE Access</i> , 2022 , 10, 3668-3692	3.5	25
692	Expedited Gradient-Based Design Closure of Antennas Using Variable-Resolution Simulations and Sparse Sensitivity Updates. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	1
691	Design specification management with automated decision-making for reliable optimization of miniaturized microwave components.. <i>Scientific Reports</i> , 2022 , 12, 829	4.9	1
690	Tolerance-Aware Multi-Objective Optimization of Antennas by Means of Feature-Based Regression Surrogates. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	3
689	Design and Implementation of a Dual-Band Filtering Wilkinson Power Divider Using Coupled T-Shaped Dual-Band Resonators. <i>Energies</i> , 2022 , 15, 1189	3.1	0
688	Optimization-based robustness enhancement of compact microwave component designs with response feature regression surrogates. <i>Knowledge-Based Systems</i> , 2022 , 240, 108161	7.3	1
687	Improved-Efficacy EM-Based Antenna Miniaturization by Multi-Fidelity Simulations and Objective Function Adaptation. <i>Energies</i> , 2022 , 15, 403	3.1	1
686	Numerically Efficient Miniaturization-Oriented Optimization of an Ultra-Wideband Spline-Parameterized Antenna. <i>IEEE Access</i> , 2022 , 10, 21608-21618	3.5	1
685	Wideband Highly-Selective Bandpass Filtering Branch-Line Coupler. <i>IEEE Access</i> , 2022 , 10, 20832-20838	3.5	1
684	Overview of Planar Antenna Loading Metamaterials for Gain Performance Enhancement: The Two Decades of Progress. <i>IEEE Access</i> , 2022 , 10, 27381-27403	3.5	1
683	Reduced-cost two-level surrogate antenna modeling using domain confinement and response features.. <i>Scientific Reports</i> , 2022 , 12, 4667	4.9	0
682	Design of a Coplanar Waveguide-Fed Wideband Compact-Size Circularly Polarized Antenna and polarization-sense alteration. <i>Wireless Networks</i> , 2022 , 28, 1797-1804	2.5	
681	Performance-Driven Yield Optimization of High-Frequency Structures by Kriging Surrogates. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3697	2.6	0
680	Highly-Miniaturized Dual-Mode Bandpass Filter Based on Quarter-Mode Substrate Integrated Waveguide with Wide Stopband. <i>IEEE Access</i> , 2022 , 1-1	3.5	
679	Miniaturized Metal-Mountable U-Shaped Inductive-Coupling-Fed UHF RFID Tag Antenna With Defected Microstrip Surface. <i>IEEE Access</i> , 2022 , 10, 47301-47308	3.5	3
678	An innovative antenna array with high inter element isolation for sub-6GHz 5G MIMO communication systems.. <i>Scientific Reports</i> , 2022 , 12, 7907	4.9	4
677	Inverse Modeling and Optimization of CSRR-Based Microwave Sensors for Industrial Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022 , 1-1	4.1	2

676	Expedited Optimization of Passive Microwave Devices Using Gradient Search and Principal Directions. <i>Lecture Notes in Computer Science</i> , 2022 , 217-233	0.9	
675	Multi-criterial Design of Antennas with Tolerance Analysis Using Response-Feature Predictors. <i>Lecture Notes in Computer Science</i> , 2022 , 202-216	0.9	
674	Global Surrogate Modeling by Neural Network-Based Model Uncertainty. <i>Lecture Notes in Computer Science</i> , 2022 , 425-434	0.9	
673	Neural Network-Based Sequential Global Sensitivity Analysis Algorithm. <i>Lecture Notes in Computer Science</i> , 2022 , 445-454	0.9	
672	Analysis of Agricultural and Engineering Systems Using Simulation Decomposition. <i>Lecture Notes in Computer Science</i> , 2022 , 435-444	0.9	
671	Global Design Optimization of Microwave Circuits Using Response Feature Inverse Surrogates. <i>Lecture Notes in Computer Science</i> , 2022 , 248-262	0.9	
670	Design of a Patch Power Divider With Simple Structure and Ultra-Broadband Harmonics Suppression. <i>IEEE Access</i> , 2021 , 9, 165734-165744	3.5	5
669	Knowledge-based performance-driven modeling of antenna structures. <i>Knowledge-Based Systems</i> , 2021 , 237, 107698	7.3	2
668	Generalized Formulation of Response Features for Reliable Optimization of Antenna Input Characteristics. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	3
667	Highly Miniaturized Self-Diplexed U-Shaped Slot Antenna Based on Shielded QMSIW. <i>IEEE Access</i> , 2021 , 9, 158926-158935	3.5	3
666	On EM-Driven Size Reduction of Antenna Structures With Explicit Constraint Handling. <i>IEEE Access</i> , 2021 , 9, 165766-165772	3.5	2
665	On Decomposition-Based Surrogate-Assisted Optimization of Leaky Wave Antenna Input Characteristics for Beam Scanning Applications. <i>IEEE Access</i> , 2021 , 9, 161318-161325	3.5	5
664	Fast Design Closure of Compact Microwave Components by Means of Feature-Based Metamodels. <i>Electronics (Switzerland)</i> , 2021 , 10, 10	2.6	6
663	Low-cost multi-criteria design optimization of compact microwave passives using constrained surrogates and dimensionality reduction. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2021 , 34, e2855	1	0
662	A Series Inclined Slot-Fed Circularly Polarized Antenna for 5G 28 GHz Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 20, 351-355	3.8	14
661	EM-Driven Multi-Objective Optimization of a Generic Monopole Antenna by Means of a Nested Trust-Region Algorithm. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3958	2.6	1
660	Compact 4 × 4 Butler matrix with non-standard phase differences for IoT applications. <i>Electronics Letters</i> , 2021 , 57, 387-389	1.1	1
659	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	4.1	18

658	Single- and Multipoint Aerodynamic Shape Optimization Using Multifidelity Models and Manifold Mapping. <i>Journal of Aircraft</i> , 2021 , 58, 591-608	1.6	2
657	Cost-Efficient EM-Driven Size Reduction of Antenna Structures by Multi-Fidelity Simulation Models. <i>Electronics (Switzerland)</i> , 2021 , 10, 1536	2.6	3
656	Frequency-Based Regularization for Improved Reliability Optimization of Antenna Structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 4246-4251	4.9	5
655	Kriging metamodels and design re-utilization for fast parameter tuning of antenna structures. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2021 , 34,	1	1
654	Accelerated Gradient-Based Optimization of Antenna Structures Using Multi-Fidelity Simulations and Convergence-Based Model Management Scheme. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	7
653	Accurate Modeling of Frequency Selective Surfaces Using Fully-Connected Regression Model With Automated Architecture Determination and Parameter Selection Based on Bayesian Optimization. <i>IEEE Access</i> , 2021 , 9, 38396-38410	3.5	9
652	A Novel Versatile Decoupling Structure and Expedited Inverse-Model-Based Re-Design Procedure for Compact Single-and Dual-Band MIMO Antennas. <i>IEEE Access</i> , 2021 , 9, 37656-37667	3.5	2
651	Improved Design Closure of Compact Microwave Circuits by Means of Performance Requirement Adaptation. <i>Lecture Notes in Computer Science</i> , 2021 , 185-199	0.9	
650	Design of High-Performance Scattering Metasurfaces Through Optimization-Based Explicit RCS Reduction. <i>IEEE Access</i> , 2021 , 9, 113077-113088	3.5	2
649	Low-Cost Modeling of Microwave Components by Means of Two-Stage Inverse/Forward Surrogates and Domain Confinement. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 1-1	4.1	6
648	Explicit Size-Reduction of Circularly Polarized Antennas Through Constrained Optimization With Penalty Factor Adjustment. <i>IEEE Access</i> , 2021 , 1-1	3.5	3
647	Reduced-Cost Microwave Design Closure by Multi-Resolution EM Simulations and Knowledge-Based Model Management. <i>IEEE Access</i> , 2021 , 9, 116326-116337	3.5	2
646	Surrogate-Assisted Design of Checkerboard Metasurface for Broadband Radar Cross-Section Reduction. <i>IEEE Access</i> , 2021 , 9, 46744-46754	3.5	3
645	. <i>IEEE Journal of Microwaves</i> , 2021 , 1, 481-493		18
644	Reliable EM-Driven Size Reduction of Antenna Structures by Means of Adaptive Penalty Factors. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	2
643	Rapid Multi-Criterial Antenna Optimization by Means of Pareto Front Triangulation and Interpolative Design Predictors. <i>IEEE Access</i> , 2021 , 9, 35670-35680	3.5	1
642	Robust Parameter Tuning of Antenna Structures by Means of Design Specification Adaptation. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	4
641	Supervised-Learning-Based Development of Multibit RCS-Reduced Coding Metasurfaces. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 1-1	4.1	4

640	High-Isolation Compact Wideband MIMO Antennas for 5G Wireless Communication. <i>Signals and Communication Technology</i> , 2021 , 131-144	0.5	
639	Improved Modeling of Microwave Structures Using Performance-Driven Fully-Connected Regression Surrogate. <i>IEEE Access</i> , 2021 , 9, 71470-71481	3.5	7
638	. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	8
637	Recent advances in accelerated multi-objective design of high-frequency structures using knowledge-based constrained modeling approach. <i>Knowledge-Based Systems</i> , 2021 , 214, 106726	7.3	6
636	Accelerated parameter tuning of antenna structures using inverse and feature-based forward kriging surrogates. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2021 , 34, e2880	1	1
635	Optimization-Based Antenna Miniaturization Using Adaptively Adjusted Penalty Factors. <i>Electronics (Switzerland)</i> , 2021 , 10, 1751	2.6	1
634	Normalized Partial Scattering Cross Section for Performance Evaluation of Low-Observability Scattering Structures. <i>Electronics (Switzerland)</i> , 2021 , 10, 1731	2.6	1
633	Constrained multi-objective optimization of compact microwave circuits by design triangulation and pareto front interpolation. <i>European Journal of Operational Research</i> , 2021 , 299, 302-302	5.6	2
632	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	2.1	1
631	Expedited Acquisition of Database Designs for Reduced-Cost Performance-Driven Modeling and Rapid Dimension Scaling of Antenna Structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 4975-4987	4.9	2
630	Global EM-driven optimization of multi-band antennas using knowledge-based inverse response-feature surrogates. <i>Knowledge-Based Systems</i> , 2021 , 227, 107189	7.3	3
629	. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 5607-5616	4.9	3
628	Expedited Trust-Region-Based Design Closure of Antennas by Variable-Resolution EM Simulations. <i>Lecture Notes in Computer Science</i> , 2021 , 91-104	0.9	
627	Iterative Global Sensitivity Analysis Algorithm with Neural Network Surrogate Modeling. <i>Lecture Notes in Computer Science</i> , 2021 , 298-311	0.9	1
626	Design of a Compact Planar Transmission Line for Miniaturized Rat-Race Coupler With Harmonics Suppression. <i>IEEE Access</i> , 2021 , 9, 129207-129217	3.5	22
625	Low-Cost Unattended Design of Miniaturized 4 \times Butler Matrices with Nonstandard Phase Differences. <i>Sensors</i> , 2021 , 21,	3.8	1
624	On Fast Multi-objective Optimization of Antenna Structures Using Pareto Front Triangulation and Inverse Surrogates. <i>Lecture Notes in Computer Science</i> , 2021 , 116-130	0.9	
623	Globalized parametric optimization of microwave components by means of response features and inverse metamodels. <i>Scientific Reports</i> , 2021 , 11, 23718	4.9	2

622	On geometry parameterization for simulation-driven design closure of antenna structures.. <i>Scientific Reports</i> , 2021 , 11, 24304	4.9	0
621	Design Centering of Compact Microwave Components Using Response Features and Trust Regions. <i>Energies</i> , 2021 , 14, 8550	3.1	4
620	Editorial for the special issue on advances in forward and inverse surrogate modeling for high-frequency design. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2020 , 33, e2813	1	
619	Surrogate modeling of impedance matching transformers by means of variable-fidelity electromagnetic simulations and nested cokriging. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2020 , 30, e22268	1.5	10
618	Fast Multi-Objective Aerodynamic Optimization Using Sequential Domain Patching and Multifidelity Models. <i>Journal of Aircraft</i> , 2020 , 57, 388-398	1.6	7
617	Expedited Feature-Based Quasi-Global Optimization of Multi-Band Antenna Input Characteristics With Jacobian Variability Tracking. <i>IEEE Access</i> , 2020 , 8, 83907-83915	3.5	35
616	Variable-fidelity modeling of antenna input characteristics using domain confinement and two-stage Gaussian process regression surrogates. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2020 , 33, e2758	1	1
615	Circular Polarization Diversity Implementation for Correlation Reduction in Wideband Low-Cost Multiple-Input-Multiple-Output Antenna. <i>IEEE Access</i> , 2020 , 8, 95585-95593	3.5	9
614	. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 5122-5129	4.9	11
613	Reliable Surrogate Modeling of Antenna Input Characteristics by Means of Domain Confinement and Principal Components. <i>Electronics (Switzerland)</i> , 2020 , 9, 877	2.6	7
612	Accelerated design optimization of miniaturized microwave passives by design reusing and Kriging interpolation surrogates. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 118, 153165	2.8	5
611	Cost-efficient performance-driven modelling of multi-band antennas by variable-fidelity electromagnetic simulations and customized space mapping. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2020 , 33, e2778	1	2
610	Performance-Driven Surrogate Modeling of High-Frequency Structures 2020 ,		20
609	Enhanced-Performance Circularly Polarized MIMO Antenna With Polarization/Pattern Diversity. <i>IEEE Access</i> , 2020 , 8, 11887-11895	3.5	23
608	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	1.6	26
607	Efficient yield estimation of multiband patch antennas by polynomial chaos-based Kriging. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2020 , 33, e2722	1	14
606	Rapid redesign of multiband antennas with respect to operating conditions and material parameters of substrate. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2020 , 33, e2723	1	1
605	Expedited Design Closure of Antenna Input Characteristics by Trust Region Gradient Search and Principal Component Analysis. <i>IEEE Access</i> , 2020 , 8, 8502-8511	3.5	4

604	Accelerated Re-Design of Antenna Structures Using Sensitivity-Based Inverse Surrogates. <i>IEEE Access</i> , 2020 , 8, 75154-75162	3.5	1
603	Expedited Globalized Antenna Optimization by Principal Components and Variable-Fidelity EM Simulations: Application to Microstrip Antenna Design. <i>Electronics (Switzerland)</i> , 2020 , 9, 673	2.6	5
602	Quasi-Global Optimization of Antenna Structures Using Principal Components and Affine Subspace-Spanned Surrogates. <i>IEEE Access</i> , 2020 , 8, 50078-50084	3.5	16
601	Rapid Optimization of Compact Microwave Passives Using Kriging Surrogates and Iterative Correction. <i>IEEE Access</i> , 2020 , 8, 53587-53594	3.5	9
600	Implementation of Spatial/Polarization Diversity for Improved-Performance Circularly Polarized Multiple-Input-Multiple-Output Ultra-Wideband Antenna. <i>IEEE Access</i> , 2020 , 8, 64112-64119	3.5	7
599	Design-oriented computationally-efficient feature-based surrogate modelling of multi-band antennas with nested kriging. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 120, 153202	2.8	10
598	Simulation-Driven Antenna Modeling by Means of Response Features and Confined Domains of Reduced Dimensionality. <i>IEEE Access</i> , 2020 , 8, 228942-228954	3.5	4
597	Reduced-Cost Constrained Modeling of Microwave and Antenna Components: Recent Advances. <i>Lecture Notes in Computer Science</i> , 2020 , 40-56	0.9	
596	Inverse Surrogates for Accelerated Simulation-Driven Design 2020 , 341-390		1
595	Nested Kriging Modeling 2020 , 179-205		
594	Warm-Start Design Optimization 2020 , 315-340		
593	Design-Oriented Modeling of High-Frequency Structures 2020 , 129-152		
592	Feature-Based Constrained Modeling 2020 , 207-225		
591	Design and Architecture Selection of Corporate Feeds Comprising Equal-Split Power Dividers for Low-Sidelobe Arrays 2020 ,		1
590	Constrained Modeling for Efficient Multi-objective Optimization 2020 , 277-314		
589	Physics-Based Surrogate Modeling 2020 , 59-128		
588	Variable-Fidelity Performance-Driven Modeling 2020 , 249-275		
587	Triangulation-Based Constrained Modeling 2020 , 153-177		

586	Low-Cost Surrogate Modeling of Compact Microstrip Circuits in Highly-Dimensional Parameters Spaces Using Variable-Fidelity Nested Co-Kriging 2020 ,			1
585	Constrained Modeling Using Principal Component Analysis 2020 , 227-247			
584	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	1.6		5
583	A Conformal Circularly Polarized Series-Fed Microstrip Antenna Array Design. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 873-881	4.9		9
582	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	1.5		8
581	Nested Kriging with Variable Domain Thickness for Rapid Surrogate Modeling and Design Optimization of Antennas. <i>Electronics (Switzerland)</i> , 2020 , 9, 1621	2.6		0
580	Design-oriented modeling of antenna structures by means of two-level kriging with explicit dimensionality reduction. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 127, 153466	2.8		3
579	On Inadequacy of Sequential Design of Experiments for Performance-Driven Surrogate Modeling of Antenna Input Characteristics. <i>IEEE Access</i> , 2020 , 8, 78417-78426	3.5		1
578	Antenna Modeling Using Variable-Fidelity EM Simulations and Constrained Co-Kriging. <i>IEEE Access</i> , 2020 , 8, 91048-91056	3.5		12
577	Cost-efficient surrogate modeling of high-frequency structures using nested kriging with automated adjustment of model domain lateral dimensions. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 121, 153224	2.8		6
576	Expedited Yield Optimization of Narrow- and Multi-Band Antennas Using Performance-Driven Surrogates. <i>IEEE Access</i> , 2020 , 8, 143104-143113	3.5		17
575	A framework for accelerated optimization of antennas using design database and initial parameter set estimation. <i>Engineering Computations</i> , 2020 , 37, 2487-2500	1.4		
574	Design-Oriented Two-Stage Surrogate Modeling of Miniaturized Microstrip Circuits With Dimensionality Reduction. <i>IEEE Access</i> , 2020 , 8, 121744-121754	3.5		4
573	Low-cost performance-driven modelling of compact microwave components with two-layer surrogates and gradient kriging. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 126, 153419	2.8		9
572	Fast Multi-Objective Optimization of Antenna Structures by Means of Data-Driven Surrogates and Dimensionality Reduction. <i>IEEE Access</i> , 2020 , 8, 183300-183311	3.5		10
571	Recent Advances in High Frequency Modeling by Means of Domain Confinement and Nested Kriging. <i>IEEE Access</i> , 2020 , 8, 189326-189342	3.5		3
570	Cost-Efficient Bi-Layer Modeling of Antenna Input Characteristics Using Gradient Kriging Surrogates. <i>IEEE Access</i> , 2020 , 8, 140831-140839	3.5		7
569	Improved-Efficacy Optimization of Compact Microwave Passives by Means of Frequency-Related Regularization. <i>IEEE Access</i> , 2020 , 8, 195317-195326	3.5		1

568	On Computationally-Efficient Reference Design Acquisition for Reduced-Cost Constrained Modeling and Re-Design of Compact Microwave Passives. <i>IEEE Access</i> , 2020 , 8, 203317-203330	3.5	4
567	Reduced-cost surrogate modelling of compact microwave components by two-level kriging interpolation. <i>Engineering Optimization</i> , 2020 , 52, 960-972	2	15
566	Rapid Redesign and Bandwidth/Size Tradeoffs for Compact Wideband Circular Polarization Antennas Using Inverse Surrogates and Fast EM-Based Parameter Tuning. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 81-89	4.9	20
565	Recent Advances in Performance-Driven Surrogate Modeling of High-Frequency Structures. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2020 , 33, e2706	1	1
564	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	3.8	16
563	. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 1986-1990	3.8	6
562	Accelerated EM-Driven Microwave Optimization By Means Of Design Re-Utilization 2019 ,		1
561	A Simple-Topology Compact Broadband Circularly Polarized Antenna With Unidirectional Radiation Pattern. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 2612-2616	3.8	4
560	Rapid Yield Optimization of Compact Microwave Couplers By Means Of Variable-Fidelity Response Features 2019 ,		1
559	Selection of circuit geometry for miniaturized microwave components based on concurrent optimization of performance and layout area. <i>AEU - International Journal of Electronics and Communications</i> , 2019 , 108, 287-294	2.8	8
558	A three-dimensional periodic beam for vibroacoustic isolation purposes. <i>Mechanical Systems and Signal Processing</i> , 2019 , 130, 524-544	7.8	4
557	Rapid Multi-band Patch Antenna Yield Estimation Using Polynomial Chaos-Kriging. <i>Lecture Notes in Computer Science</i> , 2019 , 487-494	0.9	3
556	Reduced-Cost Design Optimization of High-Frequency Structures Using Adaptive Jacobian Updates. <i>Lecture Notes in Computer Science</i> , 2019 , 508-522	0.9	
555	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	1.4	7
554	Variable-Fidelity Simulation Models and Sparse Gradient Updates for Cost-Efficient Optimization of Compact Antenna Input Characteristics. <i>Sensors</i> , 2019 , 19,	3.8	22
553	Fast surrogate-assisted frequency scaling of planar antennas with circular polarisation. <i>IET Microwaves, Antennas and Propagation</i> , 2019 , 13, 602-607	1.6	3
552	A Geometrically Simple Compact Wideband Circularly Polarized Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 1179-1183	3.8	15
551	Design and Optimization of a Novel Compact Broadband Linearly/Circularly Polarized Wide-Slot Antenna for WLAN and WiMAX Applications. <i>Radioengineering</i> , 2019 , 27, 19-24	0.8	2

550	Rapid multi-objective design of integrated on-chip inductors by means of Pareto front exploration and design extrapolation. <i>Journal of Electromagnetic Waves and Applications</i> , 2019 , 33, 1416-1426	1.3	5
549	Numerically efficient algorithm for compact microwave device optimization with flexible sensitivity updating scheme. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2019 , 29, e21714	1.4	16
548	Enhanced uniform data sampling for constrained data-driven modeling of antenna input characteristics. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2019 , 32, e2584	1	2
547	Dual-band antenna with improved gain for WLAN and ISM applications. <i>Electronics Letters</i> , 2019 , 55, 237-239	1.3	1
546	. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 1031-1035	3.8	9
545	A Novel Coplanar-Strip-Based Excitation Technique for Design of Broadband Circularly Polarization Antennas With Wide 3 dB Axial Ratio Beamwidth. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 4224-4229	4.9	11
544	Performance-Based Nested Surrogate Modeling of Antenna Input Characteristics. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 2904-2912	4.9	61
543	Multi-Fidelity Local Surrogate Model for Computationally Efficient Microwave Component Design Optimization. <i>Sensors</i> , 2019 , 19,	3.8	8
542	A Generalized SDP Multi-Objective Optimization Method for EM-Based Microwave Device Design. <i>Sensors</i> , 2019 , 19,	3.8	7
541	Constrained optimisation for generating gain-bandwidth design trade-offs of wideband unidirectional antennas. <i>IET Microwaves, Antennas and Propagation</i> , 2019 , 13, 1017-1022	1.6	1
540	Reliable Multistage Optimization of Antennas for Multiple Performance Figures in Highly Dimensional Parameter Spaces. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 1522-1526	3.8	6
539	Bandwidth-size design trade-offs for compact spline-parameterised patch couplers by means of electromagnetic-driven multi-objective optimisation. <i>IET Microwaves, Antennas and Propagation</i> , 2019 , 13, 1921-1927	1.6	
538	Simulation-Based Optimization of Antenna Arrays 2019 ,		18
537	Variable-fidelity response feature surrogates for accelerated statistical analysis and yield estimation of compact microwave components. <i>IET Microwaves, Antennas and Propagation</i> , 2019 , 13, 2539-2543	1.6	2
536	Improved trust-region gradient-search algorithm for accelerated optimization of wideband antenna input characteristics. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2019 , 29, e21576	1.5	5
535	Fast tolerance-aware design optimization of miniaturized microstrip couplers using variable-fidelity EM simulations and response features. <i>Engineering Computations</i> , 2019 , 36, 2983-2995	1.4	
534	Expedited optimization of antenna input characteristics with adaptive Broyden updates. <i>Engineering Computations</i> , 2019 , 37, 851-862	1.4	19
533	Expedited antenna optimization with numerical derivatives and gradient change tracking. <i>Engineering Computations</i> , 2019 , 37, 1179-1193	1.4	6

532	Rapid multi-objective optimization of antennas using nested kriging surrogates and single-fidelity EM simulation models. <i>Engineering Computations</i> , 2019 , 37, 1491-1512	1.4	11
531	Fast multi-objective design optimization of microwave and antenna structures using data-driven surrogates and domain segmentation. <i>Engineering Computations</i> , 2019 , 37, 753-788	1.4	1
530	Accelerated Antenna Optimization Using Gradient Search with Selective Broyden Updates 2019 ,		2
529	Expedited Design Optimization of Antenna Input Characteristics Using Trust-Region Search with Adaptive Jacobian Updates 2019 ,		1
528	Reduced-cost electromagnetic-driven optimisation of antenna structures by means of trust-region gradient-search with sparse Jacobian updates. <i>IET Microwaves, Antennas and Propagation</i> , 2019 , 13, 1646-1652 ³⁶	1.6	36
527	Computationally-Efficient and Reliable Surrogate Modeling of Antenna Structures Using Performance-Driven Nested Kriging 2019 ,		2
526	Efficient Gradient-Based Algorithm with Numerical Derivatives for Expedited Optimization of Multi-Parameter Miniaturized Impedance Matching Transformers. <i>Radioengineering</i> , 2019 , 27, 572-578	0.8	8
525	Surrogate Modeling of High-Frequency Structures Using Nested Kriging and Improved Sampling Strategy 2019 ,		1
524	EM-driven constrained miniaturization of antennas using adaptive in-band reflection acceptance threshold. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2019 , 32, e2513	1	6
523	Surrogate-assisted tolerance analysis of low-sidelobe linear arrays with microstrip corporate feeds. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2019 , 32, e2533	1	0
522	Surrogate-assisted design of microstrip corporate feeds integrated with linear microstrip array apertures for required sidelobe levels. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2019 , 32, e2532	1	
521	A bisection-based heuristic for rapid EM-driven multiobjective design of compact impedance transformers. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2019 , 32, e2523	1	
520	Fast geometry scaling of miniaturized microwave couplers with power split correction. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2019 , 29, e21485	1.5	2
519	Distribution network reconfiguration using feasibility-preserving evolutionary optimization. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019 , 7, 589-598	4	15
518	A miniaturized UWB monopole antenna with five-section ground plane slit. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 1001-1005	1.2	0
517	Rapid Design Closure of Linear Microstrip Antenna Array Apertures Using Response Features. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 645-648	3.8	6
516	Size reduction of ultra-wideband antennas with efficiency and matching constraints. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2018 , 31, e2336	1	
515	Quantitative assessment of wideband antenna geometry modifications for size-reduction-oriented design. <i>AEU - International Journal of Electronics and Communications</i> , 2018 , 90, 45-52	2.8	4

514	A High-Efficient Measurement System With Optimization Feature for Prototype CMOS Image Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 2363-2372	5.2	3
513	Implicit Space Mapping for Variable-Fidelity EM-Driven Design of Compact Circuits. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 275-277	2.6	7
512	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	3.8	8
511	Rapid surrogate-assisted design optimization of minimum-size broadband branch-line couplers with variable topology. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21255	1.5	2
510	Multi-objective design optimization of antennas for reflection, size, and gain variability using kriging surrogates and generalized domain segmentation. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21253	1.5	9
509	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	1.5	15
508	RANS-based design optimization of dual-rotor wind turbines. <i>Engineering Computations</i> , 2018 , 35, 35-52	1.4	2
507	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	1.5	
506	Miniaturized uniplanar triple-band slot dipole antenna with folded radiator. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 386-389	1.2	4
505	Inverse modeling for fast design optimization of small-size rat-race couplers incorporating compact cells. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21240	1.5	12
504	Performance-driven modeling of compact couplers in restricted domains. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21296	1.5	10
503	Generalized Pareto ranking bisection for computationally feasible multiobjective antenna optimization. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21406	1.5	8
502	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	1
501	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	4.9	11
500	Multi-objective design optimization of antenna structures using sequential domain patching with automated patch size determination. <i>Engineering Optimization</i> , 2018 , 50, 218-234	2	5
499	Surrogate-assisted EM-driven miniaturization of wideband microwave couplers by means of co-simulation low-fidelity models. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21152	1.5	2
498	Reduced-cost surrogate modeling of input characteristics and design optimization of dual-band antennas using response features. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21194	1.5	4
497	Recent advances in rapid multiobjective optimization of expensive simulation models in microwave and antenna engineering by Pareto front exploration. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21190	1.5	1

496	Rapid design closure of microwave components by means of feature-based optimization and adjoint sensitivities. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21182	1.5	0
495	Fast redesign and geometry scaling of multiband antennas using inverse surrogate modeling techniques. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2018 , 31, e2287	1	6
494	Response features for low-cost statistical analysis and tolerance-aware design of antennas. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2018 , 31, e2297	1	4
493	Low-fidelity model considerations for simulation-based optimisation of miniaturised wideband antennas. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 1613-1619	1.6	3
492	Domain segmentation for low-cost surrogate-assisted multi-objective design optimisation of antennas. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 1728-1735	1.6	1
491	On topology modifications for wideband antenna miniaturization. <i>AEU - International Journal of Electronics and Communications</i> , 2018 , 94, 215-220	2.8	9
490	EM-driven topology evolution for bandwidth enhancement of hybrid quadrature patch couplers 2018 ,		2
489	Statistical analysis and robust design of circularly polarized antennas using sequential approximate optimization 2018 ,		5
488	Low-cost and reliable geometry scaling of compact microstrip couplers with respect to operating frequency, power split ratio, and dielectric substrate parameters. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 1508-1513	1.6	3
487	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	1.3	11
486	Multi-fidelity aerodynamic design trade-off exploration using point-by-point Pareto set identification. <i>Aerospace Science and Technology</i> , 2018 , 79, 399-412	4.9	13
485	Model-Assisted Probability of Detection for Structural Health Monitoring of Flat Plates. <i>Lecture Notes in Computer Science</i> , 2018 , 618-628	0.9	1
484	Triangulation-Based Constrained Surrogate Modeling of Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 4170-4179	4.9	40
483	Ground plane modifications for design of miniaturised UWB antennas. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 1360-1366	1.6	2
482	Stochastic-Expansions-Based Model-Assisted Probability of Detection Analysis of the Spherically-Void-Defect Benchmark Problem. <i>Lecture Notes in Computer Science</i> , 2018 , 593-603	0.9	
481	Explicit Size-Reduction-Oriented Design of a Compact Microstrip Rat-Race Coupler Using Surrogate-Based Optimization Methods. <i>Lecture Notes in Computer Science</i> , 2018 , 584-592	0.9	
480	Simulation-based optimization for rigorous assessment of ground plane modifications in compact UWB antenna design. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21204	1.5	11
479	Optimization-Driven Antenna Design Framework With Multiple Performance Constraints. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21208	1.5	11

478	Uniform Sampling in Constrained Domains for Low-Cost Surrogate Modeling of Antenna Input Characteristics. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 164-167	3.8	7
477	A novel miniaturized UWB monopole with five-section stepped-impedance feed line. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 202-207	1.2	3
476	Sequential approximate optimisation for statistical analysis and yield optimisation of circularly polarised antennas. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 2060-2064	1.6	11
475	Accelerated Design Optimization of Antenna Structures Using Adaptive Response Scaling 2018 ,		1
474	Expedited Frequency Scaling of Circular Polarization Antennas by Inverse and Forward Surrogates 2018 ,		1
473	Accurate Design-Oriented Modeling of Compact Microwave Couplers in Constrained Domains 2018 ,		3
472	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	1.6	15
471	Analysis of circular polarization antenna design trade-offs using low-cost EM-driven multiobjective optimization. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 29, e21483	1.5	3
470	Miniaturisation of wideband antennas by means of feed line topology alterations. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 2128-2134	1.6	6
469	A Broadband Circularly Polarized Wide-Slot Antenna With a Miniaturized Footprint. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 2454-2458	3.8	24
468	Variable-fidelity shape optimization of dual-rotor wind turbines. <i>Engineering Computations</i> , 2018 , 35, 2514-2542	1.4	
467	Novel structure and design of enhanced-bandwidth hybrid quadrature patch coupler. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 3073-3076	1.2	4
466	. <i>IEEE Access</i> , 2018 , 6, 48978-48983	3.5	29
465	. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 1099-1103	3.8	61
464	Power loss reduction through distribution network reconfiguration using feasibility-preserving simulated annealing 2018 ,		4
463	Simulation-driven size-reduction-oriented design of multi-band antennas by means of response features. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 1093-1098	1.6	6
462	Expedited EM-driven generation of Pareto-optimal trade-off curves for variable-turn on-chip inductors. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 1205-1210	1.6	1
461	Feasible space boundary search for improved optimisation-based miniaturisation of antenna structures. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 1273-1278	1.6	10

460	Surrogate-assisted design optimization of photonic directional couplers. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2017 , 30, e2088	1	5
459	On Reduced-Cost Design-Oriented Constrained Surrogate Modeling of Antenna Structures. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 1618-1621	3.8	24
458	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	1.3	5
457	Computationally feasible narrow-band antenna modeling using response features. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2017 , 27, e21077	1.5	13
456	SADEA-II: A generalized method for efficient global optimization of antenna design. <i>Journal of Computational Design and Engineering</i> , 2017 , 4, 86-97	4.6	21
455	Pareto-Ranking Bisection Algorithm for Expedited Multiobjective Optimization of Antenna Structures. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 1488-1491	3.8	12
454	Expedited simulation-driven design optimization of UWB antennas by means of response features. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2017 , 27, e21102	1.5	13
453	. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 3427-3436	4.9	17
452	Patch size setup and performance/cost trade-offs in multi-objective EM-driven antenna optimization using sequential domain patching. <i>Engineering Computations</i> , 2017 , 34, 1070-1081	1.4	
451	Theoretical performance prediction of a reverse osmosis desalination membrane element under variable operating conditions. <i>Desalination</i> , 2017 , 419, 70-78	10.3	26
450	Reliable assessment of topological modifications in UWB antennas by means of multi-objective optimization. <i>Microwave and Optical Technology Letters</i> , 2017 , 59, 1493-1499	1.2	
449	Airfoil Design Under Uncertainty Using Non-Intrusive Polynomial Chaos Theory and Utility Functions. <i>Procedia Computer Science</i> , 2017 , 108, 1493-1499	1.6	2
448	Systematic approach to sidelobe reduction in linear antenna arrays through corporate-feed-controlled excitation. <i>IET Microwaves, Antennas and Propagation</i> , 2017 , 11, 779-786	1.6	9
447	Sidelobe reduction in linear antenna arrays with corporate-feeds of non-uniform power distribution 2017 ,		2
446	On ultra-wideband antenna miniaturization involving efficiency and matching constraints 2017 ,		4
445	Low-cost surrogate modeling for rapid design optimization of antenna structures 2017 ,		2
444	Objective Relaxation Algorithm for Reliable Simulation-Driven Size Reduction of Antenna Structures. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 1949-1952	3.8	6
443	Low-cost Antenna Positioning System Designed with Axiomatic Design. <i>MATEC Web of Conferences</i> , 2017 , 127, 01015	0.3	

442	Design strategies for multi-objective optimization of aerodynamic surfaces. <i>Engineering Computations</i> , 2017 , 34, 1724-1753	1.4	9
441	Reliable low-cost surrogate modeling and design optimisation of antennas using implicit space mapping with substrate segmentation. <i>IET Microwaves, Antennas and Propagation</i> , 2017 , 11, 2066-2070	1.6	2
440	Implicit space mapping with substrate segmentation for reliable antenna optimization 2017 ,		1
439	Rapid dimension scaling of triple-band antennas by means of inverse surrogate modeling 2017 ,		2
438	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	1.6	1
437	On deterministic procedures for low-cost multi-objective design optimization of miniaturized impedance matching transformers. <i>Engineering Computations</i> , 2017 , 34, 403-419	1.4	3
436	Computationally-efficient surrogate-assisted dimension scaling of compact dual-band couplers. <i>IET Microwaves, Antennas and Propagation</i> , 2017 , 11, 465-470	1.6	4
435	Conceptual design and automated optimisation of a novel compact UWB MIMO slot antenna. <i>IET Microwaves, Antennas and Propagation</i> , 2017 , 11, 1162-1168	1.6	17
434	Pareto Ranking Bisection Algorithm for EM-Driven Multi-Objective Design of Antennas in Highly-Dimensional Parameter Spaces. <i>Procedia Computer Science</i> , 2017 , 108, 1453-1462	1.6	
433	Adaptive response prediction for aerodynamic shape optimization. <i>Engineering Computations</i> , 2017 , 34, 1485-1500	1.4	0
432	Aerodynamic Design of the RAE 2822 in Transonic Viscous Flow: Single- and Multi-point Optimization Studies 2017 ,		2
431	Structure and EM-driven design of novel compact UWB slot antenna. <i>IET Microwaves, Antennas and Propagation</i> , 2017 , 11, 219-223	1.6	10
430	Optoelectronic properties of curved carbon systems. <i>Carbon</i> , 2017 , 111, 371-379	10.4	44
429	Low-Cost Data-Driven Surrogate Modeling of Antenna Structures by Constrained Sampling. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 461-464	3.8	42
428	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	
427	Rapid statistical analysis and tolerance-aware design of antennas by response feature surrogates 2017 ,		3
426	Design Optimization and Trade-Offs of Miniaturized Wideband Antenna for Internet of Things Applications. <i>Metrology and Measurement Systems</i> , 2017 , 24, 463-471		5
425	Rapid Design Optimization of Multi-Band Antennas by Means of Response Features. <i>Metrology and Measurement Systems</i> , 2017 , 24, 337-346		3

424	Space mapping: Performance, reliability, open problems and perspectives 2017 ,		6
423	Accelerated design of CMRC-Based compact rat-race couplers by inverse surrogate modeling 2017 ,		1
422	Local optimization of a Sierpinski carpet fractal antenna 2017 ,		3
421	On systematic design of corporate feeds for chebyshev microstrip linear antenna arrays 2017 ,		3
420	Multi-Objective Design of Antennas Using Surrogate Models 2017 ,		8
419	Rapid EM-Driven Antenna Dimension Scaling Through Inverse Modeling. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016 , 15, 714-717	3.8	28
418	A Structure and Simulation-Driven Design of Compact CPW-Fed UWB Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016 , 15, 750-753	3.8	24
417	Fast and precise geometry scaling of miniaturized microstrip couplers with unequal power split 2016 ,		3
416	On design optimization of miniaturized microstrip dual-band rat-race coupler with enhanced bandwidth 2016 ,		2
415	Rapid simulation-driven design of miniaturised dual-band microwave couplers by means of adaptive response scaling. <i>IET Microwaves, Antennas and Propagation</i> , 2016 , 10, 1135-1140	1.6	3
414	Design of high-performance hybrid branch-line couplers for wideband and space-limited applications. <i>IET Microwaves, Antennas and Propagation</i> , 2016 , 10, 1339-1344	1.6	9
413	Low-cost multi-objective design of compact microwave structures using domain patching 2016 ,		2
412	Accurate simulation-driven modeling and design optimization of compact microwave structures 2016 ,		3
411	Rapid Simulation-Driven Multiobjective Design Optimization of Decomposable Compact Microwave Passives. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 2454-2461	4.1	30
410	Rapid dimension scaling for notch frequency redesign of UWB band-notch antennas. <i>Journal of Electromagnetic Waves and Applications</i> , 2016 , 30, 2280-2292	1.3	6
409	Surrogate-assisted multi-objective optimization of compact microwave couplers. <i>Journal of Electromagnetic Waves and Applications</i> , 2016 , 30, 2067-2075	1.3	4
408	Reduced-cost modeling of dual-band antennas exploiting response features 2016 ,		1
407	Precise control of reflection response in bandwidth-enhanced planar antennas. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2016 , 26, 653-659	1.5	5

406	Rapid multi-objective design optimisation of compact microwave couplers by means of physics-based surrogates. <i>IET Microwaves, Antennas and Propagation</i> , 2016 , 10, 479-486	1.6	13
405	Suppressing Side-Lobes of Linear Phased Array of Micro-Strip Antennas with Simulation-Based Optimization. <i>Metrology and Measurement Systems</i> , 2016 , 23, 193-203		5
404	Response-correction-based fault detection in small linear microstrip patch arrays using magnitude-only far-field pattern samples. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2016 , 26, 683-689	1.5	
403	Trawl-door Shape Optimization by Space-mapping-corrected CFD Models and Kriging Surrogates. <i>Procedia Computer Science</i> , 2016 , 80, 1061-1070	1.6	2
402	On low-cost space mapping optimization of antenna structures 2016 ,		1
401	A novel structure and design optimization of miniaturized UWB slot antenna 2016 ,		4
400	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		14
399	Response features and circuit decomposition for accelerated EM-driven design of compact impedance matching transformers. <i>Microwave and Optical Technology Letters</i> , 2016 , 58, 2130-2133	1.2	2
398	EM-simulation-driven design optimization of compact microwave structures using multi-fidelity simulation models and adjoint sensitivities. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2016 , 26, 442-448	1.5	4
397	Computationally efficient design closure of miniaturized impedance matching transformers using response features. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2016 , 26, 396-401	1.5	1
396	Inverse surrogate modeling for low-cost geometry scaling of microwave and antenna structures. <i>Engineering Computations</i> , 2016 , 33, 1095-1113	1.4	7
395	Low-cost multi-objective optimization and experimental validation of UWB MIMO antenna. <i>Engineering Computations</i> , 2016 , 33, 1246-1258	1.4	3
394	Multi-objective optimization of expensive electromagnetic simulation models. <i>Applied Soft Computing Journal</i> , 2016 , 47, 332-342	7.5	16
393	Simulation-driven design of compact ultra-wideband antenna structures. <i>Engineering Computations</i> , 2016 , 33, 1051-1069	1.4	1
392	Size-reduction-oriented design of compact CPW-Fed UWB monopole antenna 2016 ,		1
391	Accurate design-oriented simulation-driven modeling of miniaturized microwave structures. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2016 , 29, 1028-1035 ¹		5
390	Strategies for computationally feasible multi-objective simulation-driven design of compact RF/microwave components. <i>Engineering Computations</i> , 2016 , 33, 184-201	1.4	6
389	Application of Multifidelity Optimization Techniques to Benchmark Aerodynamic Design Problems 2016 ,		9

388	Multi-Fidelity Aerodynamic Shape Optimization Using Manifold Mapping 2016 ,		6
387	Surrogate modelling and optimization using shape-preserving response prediction: A review. <i>Engineering Optimization</i> , 2016 , 48, 476-496	2	16
386	Fast EM-Driven Optimization Using Variable-Fidelity EM Models and Adjoint Sensitivities. <i>IEEE Microwave and Wireless Components Letters</i> , 2016 , 26, 80-82	2.6	6
385	Multiobjective Antenna Design By Means of Sequential Domain Patching. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016 , 15, 1089-1092	3.8	17
384	Rapid design and size reduction of microwave couplers using variable-fidelity EM-driven optimization. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2016 , 26, 27-35	1.5	8
383	Fast Multi-Objective Aerodynamic Optimization Using Space-Mapping-Corrected Multi-Fidelity Models and Kriging Interpolation. <i>Springer Proceedings in Mathematics and Statistics</i> , 2016 , 55-73	0.2	2
382	Fast surrogate-assisted simulation-driven optimization of compact microwave hybrid couplers. <i>Engineering Optimization</i> , 2016 , 48, 1109-1120	2	4
381	Approach to axial ratio improvement for circularly polarised microstrip patch antennas excited via two inputs. <i>IET Microwaves, Antennas and Propagation</i> , 2016 , 10, 770-776	1.6	1
380	Compact UWB monopole antenna for internet of things applications. <i>Electronics Letters</i> , 2016 , 52, 492-494		46
379	Multiobjective Aerodynamic Optimization by Variable-Fidelity Models and Response Surface Surrogates. <i>AIAA Journal</i> , 2016 , 54, 531-541	2.1	38
378	Rapid Multi-Objective Aerodynamic Design Using Co-Kriging and Space Mapping 2016 ,		4
377	A multi-fidelity surrogate-model-assisted evolutionary algorithm for computationally expensive optimization problems. <i>Journal of Computational Science</i> , 2016 , 12, 28-37	3.4	67
376	Fast Simulation-Driven Design Optimization of UWB Band-Notch Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016 , 15, 926-929	3.8	5
375	Cost-Efficient Design Optimization of Compact Patch Antennas With Improved Bandwidth. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016 , 15, 270-273	3.8	11
374	On Rapid Re-Design of UWB Antennas with Respect to Substrate Permittivity. <i>Metrology and Measurement Systems</i> , 2016 , 23, 513-520		2
373	Introduction to Surrogate Modeling and Surrogate-Based Optimization 2016 , 31-61		6
372	Expedited Simulation-Driven Multi-Objective Design Optimization of Quasi-Isotropic Dielectric Resonator Antenna. <i>Springer Proceedings in Mathematics and Statistics</i> , 2016 , 207-231	0.2	1
371	Enhancing Response Correction Techniques by Adjoint Sensitivity 2016 , 165-191		

370	Design Optimization Using Response Correction Techniques 2016 , 63-74		
369	Expedited Simulation-Driven Optimization Using Adaptively Adjusted Design Specifications 2016 , 131-146		
368	Surrogate-Based Optimization Using Parametric Response Correction 2016 , 75-98		
367	Performance Optimization of EBG-Based Common Mode Filters for Signal Integrity Applications. <i>Springer Proceedings in Mathematics and Statistics</i> , 2016 , 111-133	0.2	4
366	Nonparametric Response Correction Techniques 2016 , 99-129		
365	Simulation-Driven Design 2016 , 7-13		
364	Geometry scaling of dual-band antennas through inverse surrogate models 2016 ,		1
363	Surrogate modeling for expedited two-objective geometry scaling of miniaturized microwave passives. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2016 , 26, 531-537	1.5	5
362	Efficient Multi-Objective Aerodynamic Optimization by Design Space Dimension Reduction and Co-Kriging 2016 ,		3
361	Surrogate-Assisted Design Optimization Using Response Features 2016 , 147-163		
360	Fast geometry scaling of UWB band-notch antennas 2016 ,		1
359	Accelerated geometry optimization of compact impedance matching transformers using decomposition and adjoint sensitivities. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2016 , 29, 1140-1148	1	3
358	Low-cost surrogate-assisted statistical analysis of miniaturized microstrip couplers. <i>Journal of Electromagnetic Waves and Applications</i> , 2016 , 30, 1345-1353	1.3	11
357	Variable-fidelity CFD models and co-Kriging for expedited multi-objective aerodynamic design optimization. <i>Engineering Computations</i> , 2016 , 33, 2320-2338	1.4	7
356	Fast multi-objective surrogate-assisted design of multi-parameter antenna structures through rotational design space reduction. <i>IET Microwaves, Antennas and Propagation</i> , 2016 , 10, 624-630	1.6	15
355	Rapid Microwave Design Optimization in Frequency Domain Using Adaptive Response Scaling. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 2749-2757	4.1	20
354	Low-cost multi-objective optimization of antennas using Pareto front exploration and response features 2016 ,		11
353	A Novel Structure and Design Optimization of Compact Spline-Parameterized UWB Slot Antenna. <i>Metrology and Measurement Systems</i> , 2016 , 23, 637-643		2

352	Low-fidelity model considerations for EM-driven design of antenna structures. <i>Journal of Electromagnetic Waves and Applications</i> , 2016 , 30, 2444-2458	1.3	2
351	Rapid design optimization of antennas using variable-fidelity EM models and adjoint sensitivities. <i>Engineering Computations</i> , 2016 , 33, 2007-2018	1.4	21
350	Cost-efficient modeling of input characteristics of narrow-band antennas using response features 2016 ,		1
349	Automated design of circularly polarized microstrip patch antennas with improved axial ratio 2016 ,		1
348	Automated simulation-driven design tuning of circularly polarized microstrip patch antennas 2016 ,		1
347	Fast re-design of antenna structures with respect to substrate permittivity and thickness 2016 ,		1
346	Rapid adjoint-based design optimization of compact microwave structures using multi-fidelity simulation models 2016 ,		1
345	Expedited constrained multi-objective aerodynamic shape optimization by means of physics-based surrogates. <i>Applied Mathematical Modelling</i> , 2016 , 40, 7204-7215	4.5	9
344	Scalability of surrogate-assisted multi-objective optimization of antenna structures exploiting variable-fidelity electromagnetic simulation models. <i>Engineering Optimization</i> , 2016 , 48, 1778-1792	2	1
343	Direct and Surrogate-Based Optimization of Dual-Rotor Wind Turbines 2016 ,		3
342	Physics-Based Surrogate Modeling Using Response Correction 2016 , 211-243		
341	Multi-objective Optimization Using Variable-Fidelity Models and Response Correction 2016 , 193-210		
340	Fundamentals of Numerical Optimization 2016 , 15-29		
339	Rapid Multiobjective Antenna Design Using Point-By-Point Pareto Set Identification and Local Surrogate Models. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 2551-2556	4.9	12
338	Enhancement of circular polarization quality of single-patch two-input microstrip antennas. <i>Journal of Electromagnetic Waves and Applications</i> , 2016 , 30, 767-779	1.3	2
337	Computationally Efficient Design Optimization of Compact Microwave and Antenna Structures. <i>Studies in Computational Intelligence</i> , 2016 , 171-199	0.8	
336	Structure and design optimisation of compact UWB slot antenna. <i>Electronics Letters</i> , 2016 , 52, 681-682	1.1	16
335	Novel structure and size-reduction-oriented design of microstrip compact rat-race coupler 2016 ,		2

334	Simulation-Driven Design by Knowledge-Based Response Correction Techniques 2016 ,		44
333	Supersonic Airfoil Shape Optimization by Variable-fidelity Models and Manifold Mapping. <i>Procedia Computer Science</i> , 2016 , 80, 1103-1113	1.6	3
332	Data-driven model based design and analysis of antenna structures. <i>IET Microwaves, Antennas and Propagation</i> , 2016 , 10, 1428-1434	1.6	9
331	Cost-efficient Microwave Design Optimization Using Adaptive Response Scaling. <i>Procedia Computer Science</i> , 2016 , 80, 1042-1050	1.6	
330	Sequential Domain Patching for Computationally Feasible Multi-objective Optimization of Expensive Electromagnetic Simulation Models. <i>Procedia Computer Science</i> , 2016 , 80, 1093-1102	1.6	1
329	Expedited Dimension Scaling of Microwave and Antenna Structures Using Inverse Surrogates. <i>Procedia Computer Science</i> , 2016 , 80, 1051-1060	1.6	
328	Surrogate Modeling of Ultrasonic Nondestructive Evaluation Simulations. <i>Procedia Computer Science</i> , 2016 , 80, 1114-1124	1.6	3
327	Surrogate-based miniaturization-oriented design of two-section branch-line couplers 2016 ,		2
326	A structure and design optimization of novel compact microstrip dual-band rat-race coupler with enhanced bandwidth. <i>Microwave and Optical Technology Letters</i> , 2016 , 58, 2287-2291	1.2	4
325	Electromagnetic-simulation-driven design of compact ultra-wideband multiple-input/multiple-output antenna. <i>IET Microwaves, Antennas and Propagation</i> , 2016 , 10, 1721-1724	1.6	4
324	Fast simulation-driven feature-based design optimization of compact dual-band microstrip branch-line coupler. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2016 , 26, 13-20	1.5	17
323	Application of Physics-Based Surrogate Models to Benchmark Aerodynamic Shape Optimization Problems 2015 ,		2
322	Cost-efficient design methodology for compact rat-race couplers. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2015 , 25, 236-242	1.5	14
321	Optimal shape design of multi-element trawl-doors using local surrogate models. <i>Journal of Computational Science</i> , 2015 , 10, 55-62	3.4	17
320	Fast Optimization of Integrated Photonic Components Using Response Correction and Local Approximation Surrogates. <i>Procedia Computer Science</i> , 2015 , 51, 825-833	1.6	25
319	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	1.5	12
318	Surrogate-based Airfoil Design with Space Mapping and Adjoint Sensitivity. <i>Procedia Computer Science</i> , 2015 , 51, 795-804	1.6	10
317	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	1.6	17

316	Rapid Yield Estimation and Optimization of Microwave Structures Exploiting Feature-Based Statistical Analysis. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 107-114	4.1	112
315	Structure and Computationally Efficient Simulation-Driven Design of Compact UWB Monopole Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 1282-1285	3.8	67
314	Rapid design of microstrip antenna arrays by means of surrogate-based optimisation. <i>IET Microwaves, Antennas and Propagation</i> , 2015 , 9, 463-471	1.6	7
313	Fast EM-Driven Size Reduction of Antenna Structures by Means of Adjoint Sensitivities and Trust Regions. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 1681-1684	3.8	53
312	Rapid Multi-Objective Simulation-Driven Design of Compact Microwave Circuits. <i>IEEE Microwave and Wireless Components Letters</i> , 2015 , 25, 277-279	2.6	25
311	Rapid design of miniaturised branch-line couplers through concurrent cell optimisation and surrogate-assisted fine-tuning. <i>IET Microwaves, Antennas and Propagation</i> , 2015 , 9, 957-963	1.6	26
310	Fast Multiobjective Optimization of Narrowband Antennas Using RSA Models and Design Space Reduction. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 450-453	3.8	22
309	Low-cost EM-driven surrogate modeling and optimization of planar inductors 2015 ,		1
308	Design of a Planar UWB Dipole Antenna With an Integrated Balun Using Surrogate-Based Optimization. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 366-369	3.8	22
307	Multi-Objective Design Optimization of Planar Yagi-Uda Antenna Using Physics-Based Surrogates and Rotational Design Space Reduction. <i>Procedia Computer Science</i> , 2015 , 51, 885-894	1.6	5
306	Accurate modeling of microwave structures using variable-fidelity response features 2015 ,		1
305	Shape Optimization of Trawl-doors Using Variable-fidelity Models and Space Mapping. <i>Procedia Computer Science</i> , 2015 , 51, 905-913	1.6	14
304	Fast multi-objective optimization of shaped offset Gregorian reflector systems 2015 ,		1
303	Groin hernia surgery in northern Ghana--humanitarian mission of Polish surgeons in Tamale. <i>Polski Przegląd Chirurgiczny</i> , 2015 , 87, 16-21	0.6	8
302	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		
301	Feature-based surrogates for low-cost microwave modelling and optimisation. <i>IET Microwaves, Antennas and Propagation</i> , 2015 , 9, 1706-1712	1.6	11
300	Multiple output differential OTA with linearizing bulk-driven active-error feedback loop for continuous-time filter applications. <i>International Journal of Circuit Theory and Applications</i> , 2015 , 43, 1671-1686	2	8
299	Reduced-cost microwave filter modeling using a two-stage Gaussian process regression approach. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2015 , 25, 453-462	1.5	9

298	Phase-spacing optimization of linear microstrip antenna arrays using simulation-based surrogate superposition models. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2015 , 25, 536-547	1.5	3
297	Fast simulation-driven antenna design using response-feature surrogates. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2015 , 25, 394-402	1.5	92
296	Surrogate-Based Airfoil Design with Multi-Level Optimization and Adjoint Sensitivity 2015 ,		6
295	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	1.6	15
294	Miniaturised dual-band branch-line coupler. <i>Electronics Letters</i> , 2015 , 51, 769-771	1.1	17
293	Multi-fidelity robust aerodynamic design optimization under mixed uncertainty. <i>Aerospace Science and Technology</i> , 2015 , 45, 17-29	4.9	39
292	Crosstalk suppression bandwidth optimisation of a vertically coupled ring resonator add/drop filter. <i>IET Optoelectronics</i> , 2015 , 9, 30-36	1.5	5
291	Rapid hierarchical simulation-driven design of compact multi-section branch-line couplers 2015 ,		1
290	Variable-resolution shape optimisation: low-fidelity model selection and scalability. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2015 , 6, 1	0.3	9
289	Fast EM-driven design optimization of microwave filters using adjoint sensitivity and response features 2015 ,		5
288	2015 ,		2
287	Cost-efficient modeling of antenna structures using Gradient-Enhanced Kriging 2015 ,		2
286	Reliable Microwave Modeling by Means of Variable-Fidelity Response Features. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 4247-4254	4.1	28
285	Expedited multi-objective design optimization of miniaturized microwave structures using physics-based surrogates 2015 ,		12
284	Fast multi-objective design optimization of compact UWB matching transformers using variable-fidelity EM simulations and design space reduction 2015 ,		1
283	Expedited design optimization of compact microwave structures using adjoint sensitivities and space mapping 2015 ,		2
282	A review of implicit space mapping optimization and modeling techniques 2015 ,		3
281	Efficient knowledge-based optimization of expensive computational models using adaptive response correction. <i>Journal of Computational Science</i> , 2015 , 11, 1-11	3.4	1

280	Antenna array optimization using surrogate-model aware evolutionary algorithm with local search 2015,		1
279	Computationally-efficient multi-objective optimization of antenna structures using point-by-point Pareto set identification and local approximation surrogates 2015,		3
278	Rapid design optimization of microwave filters using variable-fidelity EM simulations and adjoint sensitivity 2015,		2
277	Rapid simulation-based design of covered planar microstrip patch antenna arrays by means of radiation response surrogates 2015,		1
276	Efficient design optimization of compact dual-band microstrip branch-line coupler using response features 2015,		1
275	Size reduction of microwave couplers by EM-driven optimization 2015,		4
274	Expedited Geometry Scaling of Compact Microwave Passives by Means of Inverse Surrogate Modeling. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 4019-4026	4.1	32
273	Expedited microstrip linear antenna array design using radiation response surrogates 2015,		3
272	Rapid simulation-driven design of UWB antennas using surrogate-based optimization 2015,		1
271	Objective Selection of Minimum Acceptable Mesh Refinement for EMC Simulations. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1266-1269	2	4
270	. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 759-762	3.8	7
269	Simulation-driven design of low-speed wind tunnel contraction. <i>Journal of Computational Science</i> , 2015 , 7, 1-12	3.4	7
268	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	3.4	24
267	Fast simulation-driven optimization of planar microstrip antenna arrays using surrogate superposition models. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2015 , 25, 371-381	1.5	5
266	Simulation-Driven Aerodynamic Design Using Variable-Fidelity Models 2015,		16
265	Multi-Objective Aeroacoustic Shape Optimization by Variable-Fidelity Models and Response Surface Surrogates 2015,		3
264	Efficient Design of Inline E-Plane Waveguide Extracted Pole Filters Through Enhanced Equivalent Circuits and Space Mapping. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 185-197	0.4	
263	Computationally-Efficient EM-Simulation-Driven Multi-objective Design of Compact Microwave Structures. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 235-250	0.4	

262	Antenna Design by Simulation-Driven Optimization. <i>SpringerBriefs in Optimization</i> , 2014 ,	0.5	93
261	Mathematical modelling and parameter optimization of pulsating heat pipes. <i>Journal of Computational Science</i> , 2014 , 5, 119-125	3.4	12
260	EM-driven tuning of substrate integrated waveguide filters exploiting feature-space surrogates 2014 ,		8
259	Fast EM Modeling Exploiting Shape-Preserving Response Prediction and Space Mapping. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 399-407	4.1	39
258	Cost-effective global surrogate modeling of planar microwave filters using multi-fidelity bayesian support vector regression. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2014 , 24, 11-17	1.5	5
257	Full-wave computer-aided optimization of wireless power transfer systems 2014 ,		2
256	Cost-efficient dual-stage Gaussian process modeling of antennas 2014 ,		1
255	Low-cost feature-based modeling of microwave structures 2014 ,		3
254	Fast multi-objective antenna design through variable-fidelity EM simulations 2014 ,		2
253	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	2.6	31
252	Simulation-Driven Design of Microstrip Antenna Subarrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 3584-3591	4.9	11
251	Expedited Design of Microstrip Antenna Subarrays Using Surrogate-Based Optimization. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014 , 13, 635-638	3.8	18
250	Design optimisation of antennas using electromagnetic simulations and adaptive response correction technique. <i>IET Microwaves, Antennas and Propagation</i> , 2014 , 8, 180-185	1.6	22
249	Two-Stage Framework for Efficient Gaussian Process Modeling of Antenna Input Characteristics. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 706-713	4.9	76
248	Nested Space Mapping Technology for Expedite EM-driven Design of Compact RF/Microwave Components. <i>Procedia Computer Science</i> , 2014 , 29, 769-778	1.6	1
247	Fast Low-fidelity Wing Aerodynamics Model for Surrogate-based Shape Optimization. <i>Procedia Computer Science</i> , 2014 , 29, 811-820	1.6	10
246	Low-cost EM-simulation-driven Multi-objective Optimization of Antennas. <i>Procedia Computer Science</i> , 2014 , 29, 790-799	1.6	2
245	Computational Optimization, Modelling and Simulation: Past, Present and Future. <i>Procedia Computer Science</i> , 2014 , 29, 754-758	1.6	11

244	Simulation-driven design of planar filters using response surface approximations and space mapping 2014,		1
243	Feature-based statistical analysis for rapid yield estimation of microwave structures 2014,		2
242	Novel structure and EM-driven design of small UWB monopole antenna 2014,		2
241	Phase-spacing optimization of linear microstrip antenna arrays by EM-based superposition models 2014,		1
240	Rapid multi-objective optimization of a MIMO antenna for UWB applications 2014,		5
239	Low-cost multi-objective optimization of Yagi-Uda antenna in multi-dimensional parameter space 2014,		1
238	Expedited EM-Driven Multiobjective Antenna Design in Highly Dimensional Parameter Spaces. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014 , 13, 631-634	3.8	57
237	Efficient Multi-Objective Simulation-Driven Antenna Design Using Co-Kriging. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 5900-5905	4.9	96
236	Trawl-Door Design Optimization by Local Surrogate Models 2014,		1
235	Automated inverse design of bandpass filters with invariable layout through linear approximation of physical dimensions 2014,		2
234	Variable-fidelity optimization of antennas using adjoint sensitivities 2014,		5
233	Aerodynamic Design Optimization: Physics-based Surrogate Approaches for Airfoil and Wing Design 2014,		13
232	Microstrip antenna subarray design through simulation-driven surrogate optimization 2014,		1
231	A concept and design optimization of compact planar UWB monopole antenna 2014,		3
230	Fast design of microstrip antenna arrays exploiting surrogate models 2014,		2
229	Design of microstrip antenna subarrays: a simulation-driven surrogate-based approach 2014,		1
228	Multilevel microwave design optimization with automated model fidelity adjustment. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2014 , 24, 281-288	1.5	4
227	Call for Papers: Advances in simulation-driven modeling and optimization of microwave/RF circuits. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2014 , 27, 702-702		1

226	Inverse airfoil design using variable-resolution models and shape-preserving response prediction. <i>Aerospace Science and Technology</i> , 2014 , 39, 513-522	4.9	6
225	Rapid electromagnetic-based microwave design optimisation exploiting shape-preserving response prediction and adjoint sensitivities. <i>IET Microwaves, Antennas and Propagation</i> , 2014 , 8, 775-781	1.6	30
224	Small antenna design using surrogate-based optimization 2014 ,		4
223	Expedite design optimization of narrow-band antennas using response features 2014 ,		2
222	Low-cost optimization of compact branch-line couplers and its application to miniaturized Butler matrix design 2014 ,		16
221	Surrogate-based optimization of efficient resonant wireless power transfer links using conjugate image impedances 2014 ,		1
220	Hydrodynamic Shape Optimization of Fishing Gear Trawl-Doors. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 305-318	0.4	2
219	Surrogate-Based Optimization. <i>SpringerBriefs in Optimization</i> , 2014 , 13-24	0.5	4
218	Automated Low-Fidelity Model Setup for Surrogate-Based Aerodynamic Optimization. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014 , 87-111	0.2	5
217	Design Space Reduction for Expedited Multi-Objective Design Optimization of Antennas in Highly Dimensional Spaces. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014 , 113-147	0.2	7
216	Numerically Efficient Approach to Simulation-Driven Design of Planar Microstrip Antenna Arrays By Means of Surrogate-Based Optimization. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014 , 149-170	0.2	5
215	Physics-based Multi-fidelity Surrogate Modeling with Entropy-based Availability Methods 2014 ,		3
214	Wing Aerodynamic Shape Optimization by Space Mapping. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 319-332	0.4	0
213	Shape-Preserving Response Prediction for Surrogate Modeling and Engineering Design Optimization. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014 , 25-51	0.2	
212	Low-Fidelity Antenna Models. <i>SpringerBriefs in Optimization</i> , 2014 , 45-52	0.5	
211	Nested Space Mapping Technique for Design and Optimization of Complex Microwave Structures with Enhanced Functionality. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014 , 53-86	0.2	1
210	Discussion and Recommendations. <i>SpringerBriefs in Optimization</i> , 2014 , 125-129	0.5	
209	Methodologies for Variable-Fidelity Optimization of Antenna Structures. <i>SpringerBriefs in Optimization</i> , 2014 , 25-43	0.5	

208	Simulation-Based UWB Antenna Design. <i>SpringerBriefs in Optimization</i> , 2014 , 53-59	0.5	
207	Antenna Optimization with Surrogates and Adjoint Sensitivities. <i>SpringerBriefs in Optimization</i> , 2014 , 93-104	0.5	
206	Surrogate-Based Optimization of Microstrip Broadband Antennas. <i>SpringerBriefs in Optimization</i> , 2014 , 73-81	0.5	
205	Surrogate modeling of microwave structures using kriging, co-kriging, and space mapping. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2013 , 26, 64-73	1	22
204	Computational-budget-driven automated microwave design optimization using variable-fidelity electromagnetic simulations. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2013 , 23, 349-356	1.5	8
203	Physics-based Surrogates for Low-cost Modeling of Microwave Structures. <i>Procedia Computer Science</i> , 2013 , 18, 869-878	1.6	2
202	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 3493-3502	4.1	118
201	Computational Optimization, Modelling and Simulation: Recent Trends and Challenges. <i>Procedia Computer Science</i> , 2013 , 18, 855-860	1.6	27
200	Robust variable-fidelity optimization of microwave filters using co-Kriging and trust regions. <i>Microwave and Optical Technology Letters</i> , 2013 , 55, 765-769	1.2	12
199	Decomposition, Response Surface Approximations, and Space Mapping for EM-Driven Design of Microwave Filters. <i>Microwave and Optical Technology Letters</i> , 2013 , 55, 2137-2141	1.2	
198	Reduced-cost microwave component modeling using space mapping-enhanced electromagnetic-based kriging surrogates. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2013 , 26, 275-286	1	10
197	Shape-preserving response prediction with adjoint sensitivities for microwave design optimization 2013 ,		4
196	Multi-point response correction for cost-efficient antenna and microwave design optimization 2013 ,		3
195	Reliable reduced cost modeling and design optimization of microwave filters using co-kriging. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2013 , 26, 493-505	1	8
194	Computationally Efficient Multi-Fidelity Bayesian Support Vector Regression Modeling of Planar Antenna Input Characteristics. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 980-984	4.9	22
193	Antenna design using variable-fidelity electromagnetic simulations. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2013 , 43, 169-183	0.4	7
192	Enhanced fidelity modeling of microwave structures combining shape-preserving response prediction with space mapping 2013 ,		1
191	Variable-Fidelity Electromagnetic Simulations and Co-Kriging for Accurate Modeling of Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 1301-1308	4.9	60

190	Multi-objective design of UWB antennas using surrogate-based optimization 2013,		1
189	Accelerated parameter identification in a 3D marine biogeochemical model using surrogate-based optimization. <i>Ocean Modelling</i> , 2013 , 68, 22-36	3	11
188	Marine ecosystem model calibration with real data using enhanced surrogate-based optimization. <i>Journal of Computational Science</i> , 2013 , 4, 423-437	3.4	11
187	Multi-level CFD-based Airfoil Shape Optimization With Automated Low-fidelity Model Selection. <i>Procedia Computer Science</i> , 2013 , 18, 889-898	1.6	15
186	Shape-Preserving Response Prediction for Engineering Design Optimization. <i>Procedia Computer Science</i> , 2013 , 18, 879-888	1.6	1
185	A New Coupler Concept for Contactless High-Speed Data Transmission Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013 , 62, 328-334	5.2	0
184	Surrogate-Based Aerodynamic Shape Optimization by Variable-Resolution Models. <i>AIAA Journal</i> , 2013 , 51, 94-106	2.1	58
183	Multi-level design optimization of microwave structures with automated model fidelity adjustment 2013,		2
182	Rapid optimisation of omnidirectional antennas using adaptively adjusted design specifications and kriging surrogates. <i>IET Microwaves, Antennas and Propagation</i> , 2013 , 7, 1194-1200	1.6	16
181	Multi-Objective Design of Antennas Using Variable-Fidelity Simulations and Surrogate Models. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 5931-5939	4.9	104
180	Multipoint Response Correction for Reduced-Cost EM-Simulation-Driven Design of Antenna Structures. <i>Microwave and Optical Technology Letters</i> , 2013 , 55, 2070-2074	1.2	3
179	Introduction to Optimization and Gradient-Based Methods 2013, 1-18		
178	Surrogate-Based Optimization 2013, 41-79		6
177	Space Mapping 2013, 81-105		
176	Simulation-Driven Design of Broadband Antennas Using Surrogate-Based Optimization 2013, 159-189		4
175	Reliable em-driven microwave design optimization using manifold mapping and adjoint sensitivity. <i>Microwave and Optical Technology Letters</i> , 2013 , 55, 809-813	1.2	27
174	Design optimization of microstrip antenna arrays using surrogate-based methodology 2013,		1
173	Gaussian process antenna modeling using neighborhood-data-expanded training sets 2013,		2

172	EM-simulation-driven antenna design using multi-point response correction 2013 ,		1
171	Multi-Level Surrogate-Based Airfoil Shape Optimization 2013 ,		13
170	Simulation-Driven Design Optimization and Modeling for Microwave Engineering 2013 ,		27
169	Hydrodynamic Shape Optimization of Axisymmetric Bodies Using Multi-fidelity Modeling. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 209-223	0.4	2
168	Bayesian Support Vector Regression Modeling of Microwave Structures for Design Applications 2013 , 121-145		0
167	Simulation-Driven Antenna Design Using Surrogate-Based Optimization 2013 , 51-80		1
166	Marine Ecosystem Model Calibration through Enhanced Surrogate-Based Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 193-208	0.4	
165	Space Mapping for Electromagnetic-Simulation-Driven Design Optimization 2013 , 1-25		4
164	Aerodynamic Shape Optimization by Space Mapping 2013 , 213-245		1
163	Comparative study of space-mapping-based techniques for microwave design optimisation. <i>IET Microwaves, Antennas and Propagation</i> , 2012 , 6, 361	1.6	0
162	Derivative-free microwave design optimisation using shape-preserving response prediction and space mapping. <i>IET Science, Measurement and Technology</i> , 2012 , 6, 13	1.5	3
161	Robust microwave design optimization using adjoint sensitivity and trust regions. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2012 , 22, 10-19	1.5	51
160	Response correction techniques for surrogate-based design optimization of microwave structures. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2012 , 22, 211-223	1.5	8
159	Antenna modeling using space-mapping corrected cauchy approximation surrogates. <i>Microwave and Optical Technology Letters</i> , 2012 , 54, 37-40	1.2	2
158	Accurate modeling of microwave devices using kriging-corrected space mapping surrogates. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2012 , 25, 1-14	1	17
157	Low-cost design optimization of antennas using adjoint sensitivity 2012 ,		3
156	Cost-efficient electromagnetic-simulation-driven antenna design using co-Kriging. <i>IET Microwaves, Antennas and Propagation</i> , 2012 , 6, 1521-1528	1.6	9
155	Local response surface approximations and variable-fidelity electromagnetic simulations for computationally efficient microwave design optimisation. <i>IET Microwaves, Antennas and Propagation</i> , 2012 , 6, 1056	1.6	4

154	Design of novel microstrip directional coupler for differential signal decoupling. <i>IET Microwaves, Antennas and Propagation</i> , 2012 , 6, 721	1.6	1
153	Low-Fidelity Model Mesh Density and the Performance of Variable-Resolution Shape Optimization Algorithms. <i>Procedia Computer Science</i> , 2012 , 9, 842-851	1.6	1
152	Robust design of UWB antennas using response surface approximations and manifold mapping 2012 ,		3
151	Numerical Optimization and Experimental Validation of a Low Speed Wind Tunnel Contraction. <i>Procedia Computer Science</i> , 2012 , 9, 822-831	1.6	1
150	Scaling Properties of Multi-Fidelity Shape Optimization Algorithms. <i>Procedia Computer Science</i> , 2012 , 9, 832-841	1.6	2
149	Computational Optimization, Modelling and Simulation: Smart Algorithms and Better Models. <i>Procedia Computer Science</i> , 2012 , 9, 852-856	1.6	3
148	Robust space mapping optimization exploiting EM-based models with adjoint sensitivities 2012 ,		5
147	Antenna design using surrogate models and adjoint sensitivity 2012 ,		1
146	Accurate modeling of microwave structures using generalized shape-preserving response prediction 2012 ,		2
145	A space mapping schematic for fast EM-based modeling and design 2012 ,		3
144	Model management for cost-efficient surrogate-based optimisation of antennas using variable-fidelity electromagnetic simulations. <i>IET Microwaves, Antennas and Propagation</i> , 2012 , 6, 1643-1650	1.6	39
143	Highly linear CMOS triode transconductor for VHF applications. <i>IET Circuits, Devices and Systems</i> , 2012 , 6, 9	1.1	7
142	Reduced-cost design optimization of antenna structures using adjoint sensitivity. <i>Microwave and Optical Technology Letters</i> , 2012 , 54, 2594-2597	1.2	3
141	End-fire array synthesis using gradient-based numerical optimization with analytical derivatives 2012 ,		1
140	. <i>IEEE Circuits and Systems Magazine</i> , 2012 , 12, 45-63	3.2	95
139	Knowledge-Based Response Correction and Adaptive Design Specifications for Microwave Design Optimization. <i>Procedia Computer Science</i> , 2012 , 9, 764-773	1.6	1
138	2012 ,		2
137	Rapid antenna design optimization using shape-preserving response prediction. <i>Bulletin of the Polish Academy of Sciences: Technical Sciences</i> , 2012 , 60, 143-149		23

136	Advances in simulation-driven optimization and modeling. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2012 , 12, 1-4	0.3	2
135	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	0.3	1
134	Parameter identification in climate models using surrogate-based optimization. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2012 , 12, 47-62	0.3	
133	Multi-Fidelity Airfoil Shape Optimization with Adaptive Response Prediction 2012 ,		8
132	Accurate low-cost microwave component models using shape-preserving response prediction. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2012 , 25, 152-162	1	8
131	Tuning space mapping: The state of the art. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2012 , 22, 639-651	1.5	10
130	Generalised shape-preserving response prediction for accurate modelling of microwave structures. <i>IET Microwaves, Antennas and Propagation</i> , 2012 , 6, 1332	1.6	12
129	Fast simulation-driven design of microwave structures using improved variable-fidelity optimization technique. <i>Engineering Optimization</i> , 2012 , 44, 1007-1019	2	1
128	Robust Airfoil Optimization Under Inherent and Model-Form Uncertainties Using Stochastic Expansions 2012 ,		9
127	Variable-Resolution Shape Optimization: Low-Fidelity Model Setup and Algorithm Scalability 2012 ,		1
126	Reduced-cost Bayesian support vector regression modeling and optimization of planar slot antennas 2012 ,		1
125	Low-cost design optimization of slot antennas using Bayesian support vector regression and space mapping 2012 ,		2
124	Selecting model fidelity for antenna design using surrogate-based optimization 2012 ,		1
123	Reliable low-cost co-kriging modeling of microwave devices 2012 ,		2
122	2012 ,		4
121	Efficient simulation-driven design optimization of antennas using co-kriging 2012 ,		1
120	Linear antenna array synthesis using gradient-based optimization with analytical derivatives 2012 ,		7
119	Knowledge-Based Airfoil Shape Optimization Using Space Mapping 2012 ,		22

118	Adaptive Response Correction for Surrogate-Based Airfoil Shape Optimization 2012 ,		8
117	Variable-fidelity simulation-driven design optimisation of microwave structures. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2012 , 3, 64	0.3	1
116	Surrogate-based optimization of climate model parameters using response correction. <i>Journal of Computational Science</i> , 2011 , 2, 335-344	3.4	11
115	2011 ,		1
114	Transonic Airfoil Shape Optimization Using Variable-Resolution Models and Pressure Distribution Alignment 2011 ,		6
113	Variable-Fidelity Aerodynamic Shape Optimization. <i>Studies in Computational Intelligence</i> , 2011 , 179-210	0.8	10
112	Computational Optimization: An Overview. <i>Studies in Computational Intelligence</i> , 2011 , 1-11	0.8	6
111	LOW-COST PARAMETER EXTRACTION AND SURROGATE OPTIMIZATION FOR SPACE MAPPING DESIGN USING EM-BASED COARSE MODELS. <i>Progress in Electromagnetics Research B</i> , 2011 , 31, 117-137	0.7	
110	Variable-fidelity aerodynamic shape optimisation of single-element airfoils at high-lift conditions. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2011 , 2, 194	0.3	2
109	Space-mapping modelling of microwave devices using multi-fidelity electromagnetic simulations. <i>IET Microwaves, Antennas and Propagation</i> , 2011 , 5, 324	1.6	2
108	Fast microwave design optimisation using shape-preserving response prediction and coarse-discretisation EM models. <i>IET Microwaves, Antennas and Propagation</i> , 2011 , 5, 175	1.6	
107	Role of constraints in surrogate-based design optimisation of microwave structures. <i>IET Microwaves, Antennas and Propagation</i> , 2011 , 5, 588	1.6	2
106	Constrained parameter extraction for microwave design optimisation using implicit space mapping. <i>IET Microwaves, Antennas and Propagation</i> , 2011 , 5, 1156	1.6	30
105	Accurate modelling of microwave structures using shape-preserving response prediction. <i>IET Microwaves, Antennas and Propagation</i> , 2011 , 5, 1116	1.6	8
104	Tuning space mapping design framework exploiting reduced electromagnetic models. <i>IET Microwaves, Antennas and Propagation</i> , 2011 , 5, 1219	1.6	20
103	Computational optimization, modelling and simulation: Recent advances and overview. <i>Procedia Computer Science</i> , 2011 , 4, 1230-1233	1.6	
102	Modeling and optimization of microwave structures using quick space mapping with variable weight coefficients. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2011 , 24, 175-193	1	
101	Reliable design optimization of microwave structures using multipoint-response-correction space mapping and trust regions. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2011 , 21, 534-542	1.5	5

100	Rapid design optimization of antennas using space mapping and response surface approximation models. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2011 , 21, 611-621	1.5	18
99	Robust optimization of microwave structures using cosimulation-based surrogate models. <i>Microwave and Optical Technology Letters</i> , 2011 , 53, 130-135	1.2	2
98	Computationally efficient design optimization of wideband planar antennas using Cauchy approximation and space mapping. <i>Microwave and Optical Technology Letters</i> , 2011 , 53, 618-622	1.2	1
97	Design of broadband transitions for substrate integrated circuits. <i>Microwave and Optical Technology Letters</i> , 2011 , 53, 2942-2945	1.2	2
96	2011 ,		7
95	Low-cost modeling of microwave structures using shape-preserving response prediction 2011 ,		3
94	Inverse Design of Transonic Airfoils Using Variable-Resolution Modeling and Pressure Distribution Alignment. <i>Procedia Computer Science</i> , 2011 , 4, 1234-1243	1.6	4
93	Simulation-Driven Design of Antennas Using Coarse-Discretization Electromagnetic Models. <i>Procedia Computer Science</i> , 2011 , 4, 1252-1261	1.6	
92	On space mapping optimization with coarsely-discretized EM coarse models 2011 ,		1
91	Fast space mapping modeling with adjoint sensitivity 2011 ,		1
90	Fast simulation-driven design of antennas using shape-preserving response prediction 2011 ,		1
89	Improved variable-fidelity optimization algorithm for simulation-driven design of antennas 2011 ,		2
88	Surrogate-Based Methods. <i>Studies in Computational Intelligence</i> , 2011 , 33-59	0.8	132
87	Derivative-Free Optimization. <i>Studies in Computational Intelligence</i> , 2011 , 61-83	0.8	33
86	Simulation-Driven Design in Microwave Engineering: Methods. <i>Studies in Computational Intelligence</i> , 2011 , 153-178	0.8	4
85	Simulation-Driven Design in Microwave Engineering: Application Case Studies. <i>Studies in Computational Intelligence</i> , 2011 , 57-97	0.8	2
84	Airfoil Shape Optimization Using Variable-Fidelity Modeling and Shape-Preserving Response Prediction. <i>Studies in Computational Intelligence</i> , 2011 , 99-124	0.8	1
83	RELIABLE SIMULATION-DRIVEN DESIGN OPTIMIZATION OF MICROWAVE STRUCTURES USING MANIFOLD MAPPING. <i>Progress in Electromagnetics Research B</i> , 2010 , 26, 361-382	0.7	20

82	Robust multi-fidelity simulation-driven design optimization of microwave structures 2010 ,		11
81	Progress in Simulator-Based Tuning—The Art of Tuning Space Mapping [Application Notes]. <i>IEEE Microwave Magazine</i> , 2010 , 11, 96-110	1.2	33
80	Efficient optimization of microwave structures through design specifications adaptation 2010 ,		6
79	Shape-preserving response prediction for microwave circuit modeling 2010 ,		4
78	ANN and space mapping for microwave modelling and optimization 2010 ,		2
77	Adaptively constrained parameter extraction for robust space mapping optimization of microwave circuits 2010 ,		3
76	Improved microwave circuit design using multipoint-response-correction space mapping and trust Regions 2010 ,		4
75	Robust multi-fidelity simulation-driven design optimization of microwave structures 2010 ,		9
74	Estimation of multiple surface cracks parameters using MFL testing 2010 ,		1
73	Shape-Preserving Response Prediction for Microwave Design Optimization. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 2829-2837	4.1	90
72	Computational optimization, modelling and simulation—paradigm shift. <i>Procedia Computer Science</i> , 2010 , 1, 1297-1300	1.6	6
71	Multi-fidelity design optimization of transonic airfoils using shape-preserving response prediction. <i>Procedia Computer Science</i> , 2010 , 1, 1311-1320	1.6	6
70	Implicit space mapping with adaptive selection of preassigned parameters. <i>IET Microwaves, Antennas and Propagation</i> , 2010 , 4, 361	1.6	17
69	Coarse models for efficient space mapping optimisation of microwave structures. <i>IET Microwaves, Antennas and Propagation</i> , 2010 , 4, 453	1.6	3
68	Rapid design optimisation of microwave structures through automated tuning space mapping. <i>IET Microwaves, Antennas and Propagation</i> , 2010 , 4, 1892	1.6	3
67	Sizing of multiple cracks using magnetic flux leakage measurements. <i>IET Science, Measurement and Technology</i> , 2010 , 4, 1-11	1.5	15
66	Sizing of 3-D Arbitrary Defects Using Magnetic Flux Leakage Measurements. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1024-1033	2	74
65	Space Mapping Design Framework Exploiting Tuning Elements. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 136-144	4.1	29

64	Robust Trust-Region Space-Mapping Algorithms for Microwave Design Optimization. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 2166-2174	4.1	62
63	Programmable feedforward linearized CMOS OTA for fully differential continuous-time filter design. <i>International Journal of Circuit Theory and Applications</i> , 2010 , 38, 885-899	2	7
62	Recent advances in space-mapping-based modeling of microwave devices. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2010 , 23, 425-446	1	21
61	Space mapping algorithm with improved convergence properties for microwave design optimization. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2010 , 20, 230-240	1.5	9
60	Special issue on advances in design optimization of microwave/RF circuits and systems. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2010 , 20, 473-474	1.5	1
59	The state of the art of microwave CAD: EM-based optimization and modeling. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2010 , 20, 475-491	1.5	28
58	Computationally efficient simulation-driven design of a printed 2.45 GHz Yagi antenna. <i>Microwave and Optical Technology Letters</i> , 2010 , 52, 1807-1810	1.2	5
57	Multi-fidelity design optimization of transonic airfoils using physics-based surrogate modeling and shape-preserving response prediction. <i>Journal of Computational Science</i> , 2010 , 1, 98-106	3.4	72
56	ADAPTIVELY ADJUSTED DESIGN SPECIFICATIONS FOR EFFICIENT OPTIMIZATION OF MICROWAVE STRUCTURES. <i>Progress in Electromagnetics Research B</i> , 2010 , 21, 219-234	0.7	12
55	Knowledge-Based Variable-Fidelity Optimization of Expensive Objective Functions through Space Mapping. <i>Adaptation, Learning, and Optimization</i> , 2010 , 85-109	0.7	0
54	Trust-region-based convergence safeguards for space mapping design optimization of microwave circuits 2009 ,		5
53	Tuning space mapping optimization exploiting embedded surrogate elements 2009 ,		3
52	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009 , 57, 478-486	4.1	135
51	Accelerated Microwave Design Optimization With Tuning Space Mapping. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009 , 57, 383-394	4.1	80
50	Efficient optimization of microwave circuits using shape-preserving response prediction 2009 ,		9
49	Distributed fine model evaluation for rapid space-mapping optimisation of microwave structures. <i>IET Microwaves, Antennas and Propagation</i> , 2009 , 3, 798	1.6	4
48	A Simple ADS Schematic for Space Mapping 2009 ,		1
47	A Space Mapping Methodology for Defect Characterization From Magnetic Flux Leakage Measurements. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2058-2065	2	40

46	Space mapping. <i>IEEE Microwave Magazine</i> , 2008 , 9, 105-122	1.2	232
45	Tuning space mapping: A novel technique for engineering design optimization 2008 ,		5
44	Space Mapping With Multiple Coarse Models for Optimization of Microwave Components. <i>IEEE Microwave and Wireless Components Letters</i> , 2008 , 18, 1-3	2.6	33
43	Support-vector-regression-based output space-mapping for microwave device modeling 2008 ,		12
42	Space mapping with distributed fine model evaluation for optimization of microwave structures and devices 2008 ,		2
41	Combining Coarse and Fine Models for Optimal Design. <i>IEEE Microwave Magazine</i> , 2008 , 9, 79-88	1.2	30
40	Quality assessment of coarse models and surrogates for space mapping optimization. <i>Optimization and Engineering</i> , 2008 , 9, 375-391	2.1	83
39	Editorial Surrogate modeling and space mapping for engineering optimization. <i>Optimization and Engineering</i> , 2008 , 9, 307-310	2.1	9
38	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	15
37	Analysis of OTA-C filters with weakly nonlinear transconductors. <i>International Journal of Circuit Theory and Applications</i> , 2008 , 36, 789-811	2	8
36	Space Mapping Optimization and Modeling of Microwave Devices with MEFiSTo. <i>Springer Proceedings in Physics</i> , 2008 , 393-407	0.2	0
35	Coarse and Surrogate Model Assessment for Engineering Design Optimization with Space Mapping. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		9
34	Controlling Convergence of Space-Mapping Algorithms for Engineering Optimization 2007 ,		4
33	Antenna Optimization Through Space Mapping. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 651-658	4.9	62
32	SMF: A User-Friendly Software Engine for Space-Mapping-Based Engineering Design Optimization 2007 ,		14
31	A general framework for evaluating nonlinearity, noise and dynamic range in continuous-time OTA-C filters for computer-aided design and optimization. <i>International Journal of Circuit Theory and Applications</i> , 2007 , 35, 405-425	2	20
30	Space-Mapping Optimization With Adaptive Surrogate Model. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007 , 55, 541-547	4.1	51
29	Interpolated Coarse Models for Microwave Design Optimization With Space Mapping. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007 , 55, 1739-1746	4.1	8

28	Improving Efficiency of Space Mapping Optimization of Microwave Structures and Devices. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007,</i>		3
27	Microwave Device Modeling Using Space-Mapping and Radial Basis Functions. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007,</i>		12
26	A Space-Mapping Approach to Microwave Device Modeling Exploiting Fuzzy Systems. <i>IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2539-2547</i>	4.1	35
25	A Space-Mapping Framework for Engineering Optimization Theory and Implementation. <i>IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 3721-3730</i>	4.1	192
24	Simplified space-mapping approach to enhancement of microwave device models. <i>International Journal of RF and Microwave Computer-Aided Engineering, 2006, 16, 518-535</i>	1.5	59
23	Space Mapping Optimization Algorithms for Engineering Design 2006,		4
22	Space-Mapping-Based Modeling Utilizing Parameter Extraction with Variable Weight Coefficients and a Data Base 2006,		7
21	Antenna Design through Space Mapping Optimization 2006,		2
20	Space-mapping-based interpolation for engineering optimization. <i>IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 2410-2421</i>	4.1	32
19	Theoretical Justification of Space-Mapping-Based Modeling Utilizing a Database and On-Demand Parameter Extraction. <i>IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4316-4322</i>	4.1	40
18	Enhanced surrogate models for statistical design exploiting space mapping technology 2005,		36
17	Analysis and optimization of noise in continuous-time OTA-C filters. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 1086-1094</i>		13
16	Continuous-time active-RC filter model for computer-aided design and optimization. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 1292-1301</i>		5
15	Implementable space mapping approach to enhancement of microwave device models 2005,		5
14	Structure generation and performance comparison of elliptic Gm-C filters. <i>International Journal of Circuit Theory and Applications, 2004, 32, 565-589</i>	2	9
13	Mixed problems for hyperbolic functional differential equations with unbounded delay. <i>Nonlinear Analysis: Theory, Methods & Applications, 2004, 58, 489-515</i>	1.3	2
12	A general approach to continuous-time Gm-C filters. <i>International Journal of Circuit Theory and Applications, 2003, 31, 361-383</i>	2	25
11	Reducing average and peak temperatures of VLSI CMOS circuits by means of evolutionary algorithm applied to high level synthesis. <i>Microelectronics Journal, 2003, 34, 1167-1174</i>	1.8	1

10	Dynamic range comparison of voltage-mode and current-mode state-space G/s $m/-C$ biquad filters in reciprocal structures. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2003 , 50, 1245-1255	13
9	Hybrid evolutionary partitioning algorithm for heat transfer enhancement in VLSI circuits. <i>Microelectronics Journal</i> , 2002 , 33, 739-746	1.8
8	. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2002 , 49, 110-122	42
7	1.2V low-power four-quadrant CMOS transconductance multiplier operating in saturation region	3
6	Noise analysis and optimization of continuous-time active-RC filters	2
5	Dynamic range, noise and linearity optimization of continuous-time OTA-C filters	3
4	Linearized CMOS OTA using active-error feedforward technique	4
3	Towards a rigorous formulation of the space mapping technique for engineering design	29
2	Structure generation and performance comparison of canonical elliptic G/s $m/-C$ filters	1
1	Sensitivity comparison of high-order all-pole G/s $m/-C$ filters in canonical structures	1