Slawomir Koziel

List of Publications by Citations

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	Space mapping. *IEEE Microwave Magazine*, **2008**, 9, 105-122	1.2	232
692	A Space-Mapping Framework for Engineering Optimization□heory and Implementation. *IEEE Transactions on Microwave Theory and Techniques*, **2006**, 54, 3721-3730	4.1	192
691	. *IEEE Transactions on Microwave Theory and Techniques*, **2009**, 57, 478-486	4.1	135
690	Surrogate-Based Methods. *Studies in Computational Intelligence*, **2011**, 33-59	0.8	132
689	. *IEEE Transactions on Microwave Theory and Techniques*, **2013**, 61, 3493-3502	4.1	118
688	Rapid Yield Estimation and Optimization of Microwave Structures Exploiting Feature-Based Statistical Analysis. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 107-114	4.1	112
687	Multi-Objective Design of Antennas Using Variable-Fidelity Simulations and Surrogate Models. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 5931-5939	4.9	104
686	Efficient Multi-Objective Simulation-Driven Antenna Design Using Co-Kriging. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 5900-5905	4.9	96
685	. *IEEE Circuits and Systems Magazine*, **2012**, 12, 45-63	3.2	95
684	Antenna Design by Simulation-Driven Optimization. *SpringerBriefs in Optimization*, **2014**,	0.5	93
683	Fast simulation-driven antenna design using response-feature surrogates. *International Journal of RF and Microwave Computer-Aided Engineering*, **2015**, 25, 394-402	1.5	92
682	Shape-Preserving Response Prediction for Microwave Design Optimization. *IEEE Transactions on Microwave Theory and Techniques*, **2010**, 58, 2829-2837	4.1	90
681	Quality assessment of coarse models and surrogates for space mapping optimization. *Optimization and Engineering*, **2008**, 9, 375-391	2.1	83
680	Accelerated Microwave Design Optimization With Tuning Space Mapping. *IEEE Transactions on Microwave Theory and Techniques*, **2009**, 57, 383-394	4.1	80
679	Two-Stage Framework for Efficient Gaussian Process Modeling of Antenna Input Characteristics. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 706-713	4.9	76
678	Sizing of 3-D Arbitrary Defects Using Magnetic Flux Leakage Measurements. *IEEE Transactions on Magnetics*, **2010**, 46, 1024-1033	2	74
677	Multi-fidelity design optimization of transonic airfoils using physics-based surrogate modeling and shape-preserving response prediction. *Journal of Computational Science*, **2010**, 1, 98-106	3.4	72

676	Structure and Computationally Efficient Simulation-Driven Design of Compact UWB Monopole Antenna. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 1282-1285	3.8	67
675	A multi-fidelity surrogate-model-assisted evolutionary algorithm for computationally expensive optimization problems. *Journal of Computational Science*, **2016**, 12, 28-37	3.4	67
674	Robust Trust-Region Space-Mapping Algorithms for Microwave Design Optimization. *IEEE Transactions on Microwave Theory and Techniques*, **2010**, 58, 2166-2174	4.1	62
673	Antenna Optimization Through Space Mapping. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 651-658	4.9	62
672	Performance-Based Nested Surrogate Modeling of Antenna Input Characteristics. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 2904-2912	4.9	61
671	. *IEEE Antennas and Wireless Propagation Letters*, **2018**, 17, 1099-1103	3.8	61
670	Variable-Fidelity Electromagnetic Simulations and Co-Kriging for Accurate Modeling of Antennas. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 1301-1308	4.9	60
669	Simplified space-mapping approach to enhancement of microwave device models. *International Journal of RF and Microwave Computer-Aided Engineering*, **2006**, 16, 518-535	1.5	59
668	Surrogate-Based Aerodynamic Shape Optimization by Variable-Resolution Models. *AIAA Journal*, **2013**, 51, 94-106	2.1	58
667	Expedited EM-Driven Multiobjective Antenna Design in Highly Dimensional Parameter Spaces. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 631-634	3.8	57
666	Fast EM-Driven Size Reduction of Antenna Structures by Means of Adjoint Sensitivities and Trust Regions. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 1681-1684	3.8	53
665	Robust microwave design optimization using adjoint sensitivity and trust regions. *International Journal of RF and Microwave Computer-Aided Engineering*, **2012**, 22, 10-19	1.5	51
664	Space-Mapping Optimization With Adaptive Surrogate Model. *IEEE Transactions on Microwave Theory and Techniques*, **2007**, 55, 541-547	4.1	51
663	Compact UWB monopole antenna for internet of things applications. *Electronics Letters*, **2016**, 52, 492-494	1.1	46
662	Optoelectronic properties of curved carbon systems. *Carbon*, **2017**, 111, 371-379	10.4	44
661	Simulation-Driven Design by Knowledge-Based Response Correction Techniques **2016**,		44
660	Low-Cost Data-Driven Surrogate Modeling of Antenna Structures by Constrained Sampling. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 461-464	3.8	42
659	. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **2002**, 49, 110-122		42

658	Triangulation-Based Constrained Surrogate Modeling of Antennas. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 4170-4179	4.9	40
657	A Space Mapping Methodology for Defect Characterization From Magnetic Flux Leakage Measurements. *IEEE Transactions on Magnetics*, **2008**, 44, 2058-2065	2	40
656	Theoretical Justification of Space-Mapping-Based Modeling Utilizing a Database and On-Demand Parameter Extraction. *IEEE Transactions on Microwave Theory and Techniques*, **2006**, 54, 4316-4322	4.1	40
655	Fast EM Modeling Exploiting Shape-Preserving Response Prediction and Space Mapping. *IEEE Transactions on Microwave Theory and Techniques*, **2014**, 62, 399-407	4.1	39
654	Multi-fidelity robust aerodynamic design optimization under mixed uncertainty. *Aerospace Science and Technology*, **2015**, 45, 17-29	4.9	39
653	Model management for cost-efficient surrogate-based optimisation of antennas using variable-fidelity electromagnetic simulations. *IET Microwaves, Antennas and Propagation*, **2012**, 6, 1643-1650	1.6	39
652	Multiobjective Aerodynamic Optimization by Variable-Fidelity Models and Response Surface Surrogates. *AIAA Journal*, **2016**, 54, 531-541	2.1	38
651	Enhanced surrogate models for statistical design exploiting space mapping technology **2005**,		36
650	Reduced-cost electromagnetic-driven optimisation of antenna structures by means oftrust-region gradient-search with sparse Jacobian updates. *IET Microwaves, Antennas and Propagation*, **2019**, 13, 1646-1652	1.6	36
649	Expedited Feature-Based Quasi-Global Optimization of Multi-Band Antenna Input Characteristics With Jacobian Variability Tracking. *IEEE Access*, **2020**, 8, 83907-83915	3.5	35
648	A Space-Mapping Approach to Microwave Device Modeling Exploiting Fuzzy Systems. *IEEE Transactions on Microwave Theory and Techniques*, **2007**, 55, 2539-2547	4.1	35
647	Progress in Simulator-Based Tuning□he Art of Tuning Space Mapping [Application Notes]. *IEEE Microwave Magazine*, **2010**, 11, 96-110	1.2	33
646	Space Mapping With Multiple Coarse Models for Optimization of Microwave Components. *IEEE Microwave and Wireless Components Letters*, **2008**, 18, 1-3	2.6	33
645	Derivative-Free Optimization. *Studies in Computational Intelligence*, **2011**, 61-83	0.8	33
644	Expedited Geometry Scaling of Compact Microwave Passives by Means of Inverse Surrogate Modeling. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 4019-4026	4.1	32
643	Space-mapping-based interpolation for engineering optimization. *IEEE Transactions on Microwave Theory and Techniques*, **2006**, 54, 2410-2421	4.1	32
642	Rapid EM-Driven Design of Compact RF Circuits By Means of Nested Space Mapping. *IEEE Microwave and Wireless Components Letters*, **2014**, 24, 364-366	2.6	31
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640	Rapid electromagnetic-based microwave design optimisation exploiting shape-preserving response prediction and adjoint sensitivities. *IET Microwaves, Antennas and Propagation*, **2014**, 8, 775-781	1.6	30
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637	Space Mapping Design Framework Exploiting Tuning Elements. *IEEE Transactions on Microwave Theory and Techniques*, **2010**, 58, 136-144	4.1	29
636	Towards a rigorous formulation of the space mapping technique for engineering design		29
635	. *IEEE Access*, **2018**, 6, 48978-48983	3.5	29
634	Rapid EM-Driven Antenna Dimension Scaling Through Inverse Modeling. *IEEE Antennas and Wireless Propagation Letters*, **2016**, 15, 714-717	3.8	28
633	Reliable Microwave Modeling by Means of Variable-Fidelity Response Features. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 4247-4254	4.1	28
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623	A general approach to continuous-time Gm-C filters. *International Journal of Circuit Theory and Applications*, **2003**, 31, 361-383	2	25

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621	A Structure and Simulation-Driven Design of Compact CPW-Fed UWB Antenna. *IEEE Antennas and Wireless Propagation Letters*, **2016**, 15, 750-753	3.8	24
620	On Reduced-Cost Design-Oriented Constrained Surrogate Modeling of Antenna Structures. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 1618-1621	3.8	24
619	Aerodynamic shape optimization by variable-fidelity computational fluid dynamics models: A review of recent progress. *Journal of Computational Science*, **2015**, 10, 45-54	3.4	24
618	A Broadband Circularly Polarized Wide-Slot Antenna With a Miniaturized Footprint. *IEEE Antennas and Wireless Propagation Letters*, **2018**, 17, 2454-2458	3.8	24
617	Enhanced-Performance Circularly Polarized MIMO Antenna With Polarization/Pattern Diversity. *IEEE Access*, **2020**, 8, 11887-11895	3.5	23
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614	Fast Multiobjective Optimization of Narrowband Antennas Using RSA Models and Design Space Reduction. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 450-453	3.8	22
613	Design of a Planar UWB Dipole Antenna With an Integrated Balun Using Surrogate-Based Optimization. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 366-369	3.8	22
612	Design optimisation of antennas using electromagnetic simulations and adaptive response correction technique. *IET Microwaves, Antennas and Propagation*, **2014**, 8, 180-185	1.6	22
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608	Design of a Compact Planar Transmission Line for Miniaturized Rat-Race Coupler With Harmonics Suppression. *IEEE Access*, **2021**, 9, 129207-129217	3.5	22
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600	Rapid Microwave Design Optimization in Frequency Domain Using Adaptive Response Scaling. *IEEE Transactions on Microwave Theory and Techniques*, **2016**, 64, 2749-2757	4.1	20
599	Rapid Redesign and Bandwidth/Size Tradeoffs for Compact Wideband Circular Polarization Antennas Using Inverse Surrogates and Fast EM-Based Parameter Tuning. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 81-89	4.9	20
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595	Simulation-Based Optimization of Antenna Arrays **2019**,		18
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573	A Geometrically Simple Compact Wideband Circularly Polarized Antenna. *IEEE Antennas and Wireless Propagation Letters*, **2019**, 18, 1179-1183	3.8	15
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