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#	Paper	IF	Citations
2281	Metamodeling sampling criteria in a global optimization framework. **2000**,		19
2280	Construction and optimization of complex surface-reaction mechanisms. **2000**, 46, 2017-2029		73
2279	Recent developments and trends in global optimization. **2000**, 124, 209-228		156
2278	Global Optimization of Costly Nonconvex Functions Using Radial Basis Functions. **2000**, 1, 373-397		102
2277	Surrogate Modeling-Based Optimization for the Integration of Static and Dynamic Data Into a Reservoir Description. **2000**,		13
2276	Application of a product platform design process to automotive powertrains. **2000**,		14
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2273	Surrogate Modeling-Based Optimization of SAGD Processes. **2001**,		11
2272	Problem solving environments in aerospace design. **2001**, 32, 477-487		12
2271	Knowledge based and adaptive computational techniques for concurrent design of powder metallurgy parts. **2001**, 32, 455-465		5
2270	Chemical library subset selection algorithms: a unified derivation using spatial statistics. **2002**, 42, 414-28		9
2269	Efficient Global Optimization For Hydraulic Fracturing Treatment Design. **2002**,		2
2268	Global Optimization with Nonfactorable Constraints. **2002**, 41, 6413-6424		23
2267	Simulated Annealing Algorithms for Continuous Global Optimization. **2002**, 179-229		29
2266	A Multi-Disciplinary Optimization Approach for Process and Energy Systems. **2002**,		2
2265	Global Optimization of Problems with Disconnected Feasible Regions via Surrogate Modeling. **2002**,		19

2264	Hierarchical Near Exhaustive Probabilistic Searches for Global Optimization. **2002**,	
2263	Surrogate modeling-based optimization of SAGD processes. **2002**, 35, 83-93	61
2262	Efficient global optimization for hydraulic fracturing treatment design. **2002**, 35, 151-166	29
2261	Surrogate modeling-based optimization for the integration of static and dynamic data into a reservoir description. **2002**, 35, 167-181	24
2260	Wing Optimization Using Design of Experiment, Response Surface, and Data Fusion Methods. **2003**, 40, 741-750	105
2259	Constrained Maximin Designs for Computer Experiments. **2003**, 45, 340-346	53
2258	Reliability Analysis with Adaptive Response Surfaces. **2003**,	4
2257	Kriging for interpolation in random simulation. **2003**, 54, 255-262	165
2256	PCA-based dimension reduction for splines. **2003**, 15, 77-92	3
2255	Collaborative Metamodeling: Coordinating Simulation-based Product Design. **2003**, 11, 267-278	12
2254	Using support vector machines in optimization for black-box objective functions.	
2253	Evolution strategies assisted by Gaussian processes with improved preselection criterion.	41
2252	A grid-enabled problem solving environment (PSE) for design optimisation within Matlab.	0
2251	Two Dimensional Airfoil Optimisation Using CFD in a Grid Computing Environment. **2003**, 525-532	5
2250	Reliability Analysis of Systems with Nonlinear Limit States; Application to Automotive Door Closing Effort. **2003**,	5
2249	An Integrated Stochastic Design Framework Using Cross-Validated Multivariate Metamodeling Methods. **2003**,	2
2248	The Correct Kriging Variance Estimated by Bootstrapping. **2004**,	1
2247	Mode-pursuing sampling method for global optimization on expensive black-box functions. **2004**, 36, 419-438	146

2210	Model Assisted Evolution Strategies. **2005**, 333-355	6
2209	Data mining for multidisciplinary design space of regional-jet wing.	5
2208	Multiple fidelity simulation optimization of hospital performance under high consequence event scenarios.	2
2207	Probabilistic design approach for package design and solder joint reliability optimization for a lead free BGA package.	2
2206	Multiobjective Optimization on a Budget of 250 Evaluations. **2005**, 176-190	31
2205	Efficient parameter selection for support vector machines in classification and regression via model-based global optimization.	29
2204	Efficient Optimization Design Method Using Kriging Model. **2005**, 42, 413-420	292
2203	Efficient global optimization (EGO) for multi-objective problem and data mining.	11
2202	Comparison of function approximation, heuristic, and derivative-based methods for automatic calibration of computationally expensive groundwater bioremediation models. **2005**, 41,	67
2201	An explanatory model for food-web structure and evolution. **2005**, 2, 312-321	29
2200	Use of Kriging Models to Approximate Deterministic Computer Models. **2005**, 43, 853-863	571
2199	Analysis of simulation-driven numerical performance modeling techniques for application to analog circuit optimization.	20
2198	Optimizations of Stiffened Composite Panel Using Fractal Branch and Bound Method. **2005**,	1
2197	Update Strategies for Kriging Models for Use in Variable Fidelity Optimization. **2005**,	14
2196	Multi-Objective Design Exploration for Aerodynamic Configurations. **2005**,	31
2195	The Application of MDO Technologies to the Design of a High Performance Small Jet Aircraft - Lessons Learned and Some Practical Concerns. **2005**,	6
2194	Data Mining for Aerodynamic Design Space. **2005**,	6
2193	Design and Analysis of "Noisy" Computer Experiments. **2006**, 44, 2331-2339	135

2192	Surrogate Based Optimization of Helicopter Rotor Blades for Vibration Reduction in Forward Flight. **2006**,	4
2191	Multi-Objective Optimal Design of a Fluidic Thrust Vectoring Nozzle. **2006**,	3
2190	The Efficient Multi-Objective Design of Air-Vehicle Configurations using ModelCenter. **2006**,	1
2189	Efficient Global Optimization of Helicopter Rotor Blades for Vibration Reduction in Forward Flight. **2006**,	5
2188	Optimization Under Uncertainty Using Probability Collectives. **2006**,	4
2187	Comparison of Three Surrogate Modeling Techniques: Datascape, Kriging, and Second Order Regression. **2006**,	20
2186	Maximum Accumulative Error Samplint Strategy for Approximation of Deterministic Engineering Simulations. **2006**,	5
2185	Parameter Screening Using Impact Factors and Surrogate-Based ANOVA Techniques. **2006**,	3
2184	Combined Kriging and Gradient-Based Optimization Method. **2006**,	5
2183	Multifidelity Optimization for Variable-Complexity Design. **2006**,	33
2182	Knowledge Discovery in Aerodynamic Design Space for Flyback-Booster Wing Using Data Mining. **2006**,	7
2181	Multiobjective Tuning of Grid-Enabled Earth System Models Using a Non-dominated Sorting Genetic Algorithm (NSGA-II). **2006**,	10
2180	A Kriging-based probabilistic optimization method with an adaptive search region. **2006**, 38, 541-555	4
2179	ParEGO: a hybrid algorithm with on-line landscape approximation for expensive multiobjective optimization problems. **2006**, 10, 50-66	547
2178	Optimization with missing data. **2006**, 462, 935-945	15
2177	Optimization using surrogate models and partially converged computational fluid dynamics simulations. **2006**, 462, 2177-2204	101
2176	Multidisciplinary Design Optimization of Wing Shape for a Small Jet Aircraft Using Kriging Model. **2006**,	30
2175	Statistical Improvement Criteria for Use in Multiobjective Design Optimization. **2006**, 44, 879-891	181

2174	The use of dimensional analysis to augment design of experiments for optimization and robustification. **2006**, 17, 55-73		14
2173	Design Optimization of a Two-Dimensional Subsonic Engine Air Intake. **2006**, 44, 2672-2681		16
2172	Why Methods for Optimization Problems with Time-Consuming Function Evaluations and Integer Variables Should use Global Approximation Models. **2006**,		2
2171	The correct Kriging variance estimated by bootstrapping. **2006**, 57, 400-409		85
2170	Cumulative global metamodels with uncertainty ⊡a tool for aerospace integration. **2006**, 110, 375-384		7
2169	Optimization of Combustion Chamber for Diesel Engine Using Kriging Model. **2006**, 1, 138-146		52
2168	Equation-free, coarse-grained computational optimization using timesteppers. **2006**, 61, 779-793		16
2167	Optimal actuator/sensor placement for linear parabolic PDEs using spatialH2norm. **2006**, 61, 7351-7367		58
2166	Food webs: experts consuming families of experts. **2006**, 241, 552-63		90
2165	A response-modeling approach to global optimization and OUU. **2006**, 7, 367-384		1
2164	Global Optimization of Stochastic Black-Box Systems via Sequential Kriging Meta-Models. *Journal of Global Optimization*, **2006**, 34, 441-466	1.5	357
2163	Improved Strategies for Radial basis Function Methods for Global Optimization. *Journal of Global Optimization*, **2006**, 37, 113-135	1.5	86
2162	Millennial timescale carbon cycle and climate change in an efficient Earth system model. **2006**, 26, 687-711		72
2161	Sequential kriging optimization using multiple-fidelity evaluations. **2006**, 32, 369-382		233
2160	Update strategies for kriging models used in variable fidelity optimization. **2006**, 32, 287-298		107
2159	A robust optimization using the statistics based on kriging metamodel. **2006**, 20, 1169-1182		21
2158	Acetabular cup geometry and bone-implant interference have more influence on initial periprosthetic joint space than joint loading and surgical cup insertion. **2006**, 128, 169-75		21
2157	Robust Design of Compressor Fan Blades Against Erosion. **2006**, 128, 864-873		28

| 2138 | A Stochastic Radial Basis Function Method for the Global Optimization of Expensive Functions. **2007**, 19, 497-509 | 242 |

| 2137 | Dynamic optimization of multiscale PDE/kMC process systems using nonlinear order reduction and tabulation techniques. **2007**, | |

| 2136 | Simulated Reality in Automotive Design. **2007**, | 11 |

| 2135 | Processing Optimization for Injection Plastic Molding on Mold Design Grid. **2007**, | |

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| 2133 | Integration of surrogate optimization and PCA for calibration of hydrologic models, A WATCLASS case study. **2007**, | |

| 2132 | Design Optimization of Shielding Effect for Aircraft Engine Noise. **2007**, 2, 567-577 | 4 |

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| 2130 | Two-Level Optimization of Dimensions and Stacking Sequences for Hat-Stiffened Composite Panel. **2007**, 1, 22-33 | 5 |

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| 2128 | Improvement of Nonlinear Lateral Characteristics of Lifting-Body Type Reentry Vehicle Using Optimization Algorithm. **2007**, | 2 |

| 2127 | Application of a Weighted Average Surrogate Approach to Helicopter Rotor Blade Vibration Reduction. **2007**, | 9 |

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| 2125 | On Using Standard Residuals as a Metric of Kriging Model Quality. **2007**, | 6 |

| 2124 | Probability Collectives for Optimization of Computer Simulations. **2007**, | 5 |

| 2123 | A Study on Flapping Motion for MAV Design Using Design Exploration. **2007**, | 4 |

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| 2121 | Multi-Fidelity Aerodynamic Optimization Using Treed Meta-Models. **2007**, | 13 |

2120	Multidisciplinary Design Exploration of Wing Shape for Silent Supersonic Technology Demonstrator. **2007**,	8
2119	A Method for Assisting the Study of Pareto Solutions in Multi-Objective Optimization. **2007**,	1
2118	Global Optimization for Integrated Design and Control of Computationally Expensive Process Models. **2007**, 46, 9148-9157	18
2117	A Fast Multi-Objective Evolutionary Algorithm for Expensive Simulation Optimization Problems. **2007**,	
2116	A Utile Function Optimizer. **2007**,	
2115	Reproduzierbare Schaltpunkte und automatisierte Applikation von Pkw-Getrieben. **2007**, 109, 632-639	
2114	Identification of expensive-to-simulate parametric models using Kriging and stepwise uncertainty reduction. **2007**,	2
2113	Closed-loop, multiobjective optimization of two-dimensional gas chromatography/mass spectrometry for serum metabolomics. **2007**, 79, 464-76	87
2112	Review of Metamodeling Techniques in Support of Engineering Design Optimization. **2007**, 129, 370-380	1092
2111	Combining Global and Local Surrogate Models to Accelerate Evolutionary Optimization. **2007**, 37, 66-76	237
2110	Maximin Latin Hypercube Designs in Two Dimensions. **2007**, 55, 158-169	113
2109	Virtual Thermo-Mechanical Prototyping of Microelectronics and Microsystems. **2007**, A205-A266	1
2108	Kriging Metamodeling in Simulation: A Review. **2007**,	4
2107	Dimension and Stacking Sequence Optimization of Large Composite Structures Using Kriging and MOGA Method. **2007**, 56, 432-437	3
2106	Bounds for Maximin Latin Hypercube Designs. **2007**,	1
2105	Multi-Objective Design Exploration and Its Application to Regional-Jet Wing Design. **2007**, 50, 1-8	15
2104	A kriging method for the solution of nonlinear programs with black-box functions. **2007**, 53, 2001-2012	62
2103	Adaptive optimisation of noisy black-box functions inherent in microscopic models. **2007**, 31, 466-476	4

2102	Optimization of hybrid thermoplastic composite structures using surrogate models and genetic algorithms. **2007**, 80, 21-31		29
2101	Parallel radial basis function methods for the global optimization of expensive functions. **2007**, 182, 514-535		42
2100	Multidimensional sequential sampling for NURBs-based metamodel development. **2007**, 23, 155-174		27
2099	Lean optimization using supersaturated experimental design. **2008**, 58, 1-15		4
2098	EGO shape optimization of horn-loaded loudspeakers. **2008**, 9, 361-374		8
2097	An adaptive radial basis algorithm (ARBF) for expensive black-box mixed-integer constrained global optimization. **2008**, 9, 311-339		48
2096	An adaptive radial basis algorithm (ARBF) for expensive black-box global optimization. *Journal of Global Optimization*, **2008**, 41, 447-464	1.5	57
2095	Metamodeling by symbolic regression and Pareto simulated annealing. **2008**, 35, 315-326		4
2094	Surrogate based optimization of helicopter rotor blades for vibration reduction in forward flight. **2008**, 35, 341-363		42
2093	An effective warpage optimization method in injection molding based on the Kriging model. **2008**, 37, 953-960		83
2092	Towards interactive simulation in automotive design. **2008**, 24, 947-953		8
2091	Structural optimization for a jaw using iterative Kriging metamodels. **2008**, 22, 1651-1659		13
2090	Discrete mixtures of kernels for Kriging-based optimization. **2008**, 24, 681-691		19
2089	Adaptive geometry and process optimization for injection molding using the kriging surrogate model trained by numerical simulation. **2008**, 27, 1-16		22
2088	Process optimization and effects of material properties on numerical prediction of warpage for injection molding. **2008**, 27, 199-216		5
2087	An algorithm for the use of surrogate models in modular flowsheet optimization. **2008**, 54, 2633-2650		183
2086	Optimal experimental design and some related control problems. **2008**, 44, 303-325		155
2085	Reduced order modeling and dynamic optimization of multiscale PDE/kMC process systems. **2008**, 32, 2136-2143		16

2066	Cross-Validation Based Single Response Adaptive Design of Experiments for Deterministic Computer Simulations. **2008**,	4
2065	Multi-Stage Aerodynamic Design of Multi-Body Geometries by Kriging-Based Models and Adjoint Variable Approach. **2008**,	1
2064	Error Measures for Noise-Free Surrogate Approximations. **2008**,	4
2063	The Optimum Vacuum Nozzle: An MDO Approach. **2008**,	2
2062	Tchebycheff approximation in Gaussian Process model composition for multi-objective expensive black box. **2008**,	
2061	Efficient Global Reliability Analysis for Nonlinear Implicit Performance Functions. **2008**, 46, 2459-2468	504
2060	Optimum Launch Vehicle Fairing: An MDO Approach. **2008**,	1
2059	Sequential experimental designs for nonlinear regression metamodels in simulation. **2008**, 16, 1365-1378	10
2058	Meta-Modeling in Multiobjective Optimization. **2008**, 245-284	51
2057	Evaluating Three DOE Methodologies: Optimization of a Composite Laminate under Fabrication Error. **2008**, 21, 96-110	12
2056	Clustered multiple generalized expected improvement: A novel infill sampling criterion for surrogate models. **2008**,	42
2055	Multiobjective Optimization on a Limited Budget of Evaluations Using Model-Assisted (mathcal{S})-Metric Selection. **2008**, 784-794	82
2054	A Kriging-Based Approach to MINLP Containing Black-Box Models and Noise. **2008**, 47, 6101-6125	19
2053	Knowledge Discovery for Flyback-Booster Aerodynamic Wing Using Data Mining. **2008**, 45, 975-987	34
2052	Mode Pursuing Sampling Method for Discrete Variable Optimization on Expensive Black-Box Functions. **2008**, 130,	34
2051	Studies on Design Optimization of Coronary Stents. **2008**, 2,	16
2050	Robust design for acetabular cup stability accounting for patient and surgical variability. **2008**, 130, 031001	8
2049	A Variable Fidelity Model Management Framework for Designing Multiphase Materials. **2008**, 130,	10

2030	A Two-level Decomposition Method for Cooling System Optimization in Injection Molding. **2008**, 23, 439-446	4
2029	Constrained Optimization in Simulation: A Novel Approach. **2008**,	4
2028	The Integrative Optimization by RBF Network and Particle Swarm Optimization. **2008**, 128, 636-645	4
2027	Nested Maximin Latin Hypercube Designs. **2009**,	3
2026	Cross Validation Can Estimate How Well Prediction Variance Correlates with Error. **2009**, 47, 2266-2270	20
2025	Fuzzy clustering based Gaussian Process Model for large training set and its application in expensive evolutionary optimization. **2009**,	2
2024	Aerodynamic Multiobjective Design Exploration of a Flapping Airfoil Using a Navier-Stokes Solver. **2009**, 6, 256-270	22
2023	Multiresponse and Multistage Metamodeling Approach for Design Optimization. **2009**, 47, 206-218	18
2022	Simulation and Optimization of Flow Control Strategies for Novel High-Lift Configurations. **2009**, 47, 1145-1157	23
2021	Multipoint Optimization of a Short-Range Quiet Passenger Aircraft. **2009**, 46, 1070-1074	3
2020	Optimization of Nonlinear Lateral Characteristic of Lifting-Body Type Reentry Vehicle. **2009**, 6, 239-255	2
2019	Comparison of Several Optimization Strategies for Robust Turbine Blade Design. **2009**, 25, 1092-1099	24
2018	Multiple-Surrogate Approach to Helicopter Rotor Blade Vibration Reduction. **2009**, 47, 271-282	54
2017	Pros and Cons of Applying Proxy-models as a Substitute for Full Reservoir Simulations. **2009**,	76
2016	Hessian approximation algorithms for hybrid optimization methods. **2009**, 41, 609-633	10
2015	Efficient Walking Speed Optimization of a Humanoid Robot. **2009**, 28, 303-314	21
2014	Automatic Approximation of Expensive Functions with Active Learning. **2009**, 35-62	2
2013	Two-dimensional surrogate contact modeling for computationally efficient dynamic simulation of total knee replacements. **2009**, 131, 041010	27

2012	Optimal robust expensive optimization is tractable. **2009**,	6
2011	Multi-objective optimization with controlled model assisted evolution strategies. **2009**, 17, 577-93	3
2010	Optimizing Latin hypercube design for sequential sampling of computer experiments. **2009**, 41, 793-810	49
2009	Parallel Stochastic Global Optimization Using Radial Basis Functions. **2009**, 21, 411-426	42
2008	An experimental investigation of model-based parameter optimisation. **2009**,	39
2007	The Knowledge-Gradient Policy for Correlated Normal Beliefs. **2009**, 21, 599-613	198
2006	A Response Surface Approach to Beam Orientation Optimization in Intensity-Modulated Radiation Therapy Treatment Planning. **2009**, 21, 62-76	43
2005	. **2009**, 4, 77-91	35
2004	Targeted scoring functions for virtual screening. **2009**, 14, 562-9	62
2003	A centroid-based sampling strategy for kriging global modeling and optimization. **2009**, 56, NA-NA	3
2002	Integrative optimization by RBF network and particle swarm optimization. **2009**, 92, 31-42	4
2001	Multi-objective turbomachinery optimization using a gradient-enhanced multi-layer perceptron. **2009**, 61, 591-605	7
2000	A note on the choice and the estimation of Kriging models for the analysis of deterministic computer experiments. **2009**, 25, 115-131	13
1999	Assessment of uncertainty in computer experiments from Universal to Bayesian Kriging. **2009**, 25, 99-113	7
1998	Kriging-based sequential inspection plans for coordinate measuring machines. **2009**, 25, 133-149	26
1997	Efficient sampling for spatial uncertainty quantification in multibody system dynamics applications. **2009**, 80, 537-564	12
1996	A Bayesian exploration-exploitation approach for optimal online sensing and planning with a visually guided mobile robot. **2009**, 27, 93-103	117
1995	Onboard sensor orientation analysis with kriging method. **2009**, 64, 374-381	2

1994	Robust optimization of scoring functions for a target class. **2009**, 23, 633-44		15
1993	Multi-objective optimization based on meta-modeling by using support vector regression. **2009**, 10, 167-181		45
1992	Improved scatter search for the global optimization of computationally expensive dynamic models. *Journal of Global Optimization*, **2009**, 43, 175-190	1.5	33
1991	A kriging based method for the solution of mixed-integer nonlinear programs containing black-box functions. *Journal of Global Optimization*, **2009**, 43, 191-205	1.5	50
1990	Global optimization of expensive-to-evaluate functions: an empirical comparison of two sampling criteria. *Journal of Global Optimization*, **2009**, 43, 373-389	1.5	22
1989	A review of recent advances in global optimization. *Journal of Global Optimization*, **2009**, 45, 3-38	1.5	314
1988	An informational approach to the global optimization of expensive-to-evaluate functions. *Journal of Global Optimization*, **2009**, 44, 509-534	1.5	152
1987	Predictive Modeling for Pharmaceutical Processes Using Kriging and Response Surface. **2009**, 4, 174-186		31
1986	Comparing error estimation measures for polynomial and kriging approximation of noise-free functions. **2009**, 38, 429-442		57
1985	Subset selection from large datasets for Kriging modeling. **2009**, 38, 545-569		16
1984	Assessing the value of another cycle in Gaussian process surrogate-based optimization. **2009**, 39, 459-475		11
1983	Discussion (1): JonesⅡohnson Paper. **2009**, 25, 525-527		
1982	Discussion (3): JonesⅡohnson Paper. **2009**, 25, 535-539		
1981	Discussion (5): JonesⅡohnson Paper. **2009**, 25, 545-547		
1980	Kriging metamodeling in simulation: A review. **2009**, 192, 707-716		680
1979	Recent advances in surrogate-based optimization. **2009**, 45, 50-79		1301
1978	Surrogate-based process optimization for reducing warpage in injection molding. **2009**, 209, 1302-1309		84
1977	Simplex-based screening designs for estimating metamodels. **2009**, 94, 1156-1160		44

| 1958 | . **2009**, 28, 1162-1175 | 39 |

| 1957 | Globally Reliable Variation-Aware Sizing of Analog Integrated Circuits via Response Surfaces and Structural Homotopy. **2009**, 28, 1627-1640 | 30 |

| 1956 | Bounds for Maximin Latin Hypercube Designs. **2009**, 57, 595-608 | 28 |

| 1955 | Multi-objective optimization of GENIE Earth system models. **2009**, 367, 2623-33 | 11 |

| 1954 | Bayesian optimization for parameter identification on a small simulation budget. **2009**, 42, 1603-1608 | 4 |

| 1953 | Helicopter Vibration Reduction throughout the Entire Flight Envelope Using Surrogate-Based Optimization. **2009**, 54, 12007-1200715 | 29 |

| 1952 | Performance Map Construction for a Centrifugal Diffuser with Data Mining Techniques. **2010**, 4, 36-50 | 7 |

| 1951 | Two-Dimensional Optimization of a Stent for an Aneurysm. **2010**, 4, | 12 |

| 1950 | A correlation-based design space exploration methodology for multi-processor systems-on-chip. **2010**, | 28 |

| 1949 | Comment on article by Vernon et al.. **2010**, 5, | 1 |

| 1948 | A new and flexible method for constructing designs for computer experiments. **2010**, 38, | 47 |

| 1947 | Sequential Approximate Optimization Using RBF Network : Basic Examination on the Sampling Function(Mechanical Systems). **2010**, 76, 1978-1987 | 6 |

| 1946 | Calibrating simulation models using the knowledge gradient with continuous parameters. **2010**, | 7 |

| 1945 | Prediction of maize single-cross hybrid performance: support vector machine regression versus best linear prediction. **2010**, 120, 415-27 | 27 |

| 1944 | An accumulative error based adaptive design of experiments for offline metamodeling. **2010**, 40, 137-155 | 67 |

| 1943 | Survey of modeling and optimization strategies to solve high-dimensional design problems with computationally-expensive black-box functions. **2010**, 41, 219-241 | 375 |

| 1942 | Robustness optimization of the position of an anti-roll bar link to avoid the toggling of a rear axle stabilizer. **2010**, 42, 315-323 | 6 |

| 1941 | An improved adaptive sampling scheme for the construction of explicit boundaries. **2010**, 42, 517-529 | 68 |

1922	Kriging as an alternative for a more precise analysis of output parameters in nuclear safety‐large break LOCA calculation. **2010**, 26, 565-576	2
1921	Surrogate-based infill optimization applied to electromagnetic problems. **2010**, 20, 492-501	85
1920	Progress in design optimization using evolutionary algorithms for aerodynamic problems. **2010**, 46, 199-223	33
1919	A concurrent efficient global optimization algorithm applied to polymer injection strategies. **2010**, 71, 195-204	21
1918	Batch sequential designs for computer experiments. **2010**, 140, 1452-1464	69
1917	Extracting optimal datasets for metamodelling and perspectives for incremental samplings. **2010**, 81, 681-692	3
1916	Constrained optimization in expensive simulation: Novel approach. **2010**, 202, 164-174	97
1915	A systematic comparison of metamodeling techniques for simulation optimization in Decision Support Systems. **2010**, 10, 1257-1273	117
1914	Uniform design over general input domains with applications to target region estimation in computer experiments. **2010**, 54, 219-232	21
1913	Modified Sequential Kriging Optimization for Multidisciplinary Complex Product Simulation. **2010**, 23, 616-622	16
1912	A Bayesian approach for integration of physical and computer experiments for quality improvement in nano-composite manufacturing. **2010**, 26, 749-764	4
1911	Computer controlled automated assay for comprehensive studies of enzyme kinetic parameters. **2010**, 5, e10727	10
1910	Global Optimization with Expensive Functions - Sample Turbomachinery Design Application. **2010**, 499-509	10
1909	Metamodelling and search using space exploration and unimodal region elimination for design optimization. **2010**, 42, 517-533	30
1908	Dimensionality-reduction frameworks for computationally expensive problems. **2010**,	4
1907	A surrogate-assisted evolutionary algorithm for minimax optimization. **2010**,	20
1906	Trends, features, and tests of common and recently introduced global optimization methods. **2010**, 42, 691-718	70
1905	A matrix-T approach to the sequential design of optimization experiments. **2010**, 43, 54-68	5

1904   Learning Viewpoint Planning in Active Recognition on a Small Sampling Budget: A Kriging Approach. **2010**,   2

1903   Geometry Parameterization and Computational Mesh Deformation by Physics-Based Direct Manipulation Approaches. **2010**, 48, 1817-1832   27

1902   Sequential Parameter Optimization of an Evolution Strategy for the design of Mold Temperature Control Systems. **2010**,   1

1901   Material design optimization for a sport shoe sole by evolutionary computation and FEM analysis. **2010**,   2

1900   On Expected-Improvement Criteria for Model-based Multi-objective Optimization. **2010**, 718-727   34

1899   Helicopter Rotor Shape Optimization for the Improvement of Aeroacoustic Performance in Hover. **2010**, 47, 1770-1783   18

1898   Comparison of Gradient-Based and Gradient-Enhanced Response-Surface-Based Optimizers. **2010**, 48, 981-994   48

1897   Geometric Filtration Using Proper Orthogonal Decomposition for Aerodynamic Design Optimization. **2010**, 48, 916-928   56

1896   Data Mining of Pareto-Optimal Transonic Airfoil Shapes Using Proper Orthogonal Decomposition. **2010**, 47, 1756-1762   51

1895   OpenMDAO: An Open Source Framework for Multidisciplinary Analysis and Optimization. **2010**,   74

1894   Sequential metamodelling application to improve porthole die design. **2010**, 224, 279-295   6

1893   Constrained Efficient Global Optimization with Probabilistic Support Vector Machines. **2010**,   3

1892   Approximation Assisted Multi-objective collaborative Robust Optimization (AA-McRO) Under Interval Uncertainty. **2010**,   1

1891   An integrated evolutionary algorithm for expensive global optimization. **2010**,

1890   Adaptive Designs of Experiments for Accurate Approximation of a Target Region. **2010**, 132,   152

1889   Optimal Design of Experiments for Estimating Parameters of a Vehicle Dynamics Simulation Model. **2010**, 5,   2

1888   A Modified Efficient Global Optimization Algorithm for Maximal Reliability in a Probabilistic Constrained Space. **2010**, 132,   14

1887   Surrogate-Based Process Synthesis. **2010**, 28, 1129-1134   19

1886	An experimental study on robust parameter settings. **2010**,	0
1885	The challenge of optimizing expensive black boxes: a scatter search/rough set theory approach. **2010**, 61, 53-67	9
1884	Surrogate-based Optimization with Parallel Simulations using the Probability of Improvement. **2010**,	23
1883	Bayesian optimization for sensor set selection. **2010**,	39
1882	Integrated pre-design step methodology based onmulti-objective evolutionary optimization. **2010**,	
1881	Automatic tuning via Kriging-based optimization of methods for fault detection and isolation. **2010**,	9
1880	Surrogate-Based Modeling of the Optical Response of Metallic Nanostructures. **2010**, 114, 20741-20748	5
1879	Optimization of a Chemical Vapor Deposition Process Using Sequential Experimental Design. **2010**, 49, 5694-5701	13
1878	Quantification of tympanic membrane elasticity parameters from in situ point indentation measurements: validation and preliminary study. **2010**, 263, 177-82	32
1877	Kriging Is Well-Suited to Parallelize Optimization. **2010**, 131-162	116
1876	Multi-Objective Optimization Using Surrogates. **2010**, 155-175	31
1875	A robust optimization approach using Kriging metamodels for robustness approximation in the CMA-ES. **2010**,	13
1874	A Review of Techniques for Handling Expensive Functions in Evolutionary Multi-Objective Optimization. **2010**, 29-59	45
1873	Flow Field Data Mining of Pareto-Optimal Airfoils Using Proper Orthogonal Decomposition. **2010**,	5
1872	Advanced Multidisciplinary Optimization Techniques for Efficient Subsonic Aircraft Design. **2010**,	7
1871	Response Surface Based Aerodynamic Shape Optimization of High Speed Train Nose. **2010**,	3
1870	A Provably Convergent Multifidelity Optimization Algorithm not Requiring High-Fidelity Derivatives. **2010**,	2
1869	Constructing Response Surfaces Using Imperfect Function Evaluations. **2010**,	2

1868	Development and Implementation of Novel Parametrization Techniques for Multidisciplinary Design Initialization. **2010**,	3
1867	Searching for Transonic Aeroelastic Instability Using an Aerodynamic Model Hierarchy. **2010**,	4
1866	Setting Targets for Surrogate-Based Optimization. **2010**,	1
1865	Statistical Benchmarking of Surrogate-Based and Other Optimization Methods Constrained by Fixed Computational Budget. **2010**,	2
1864	Why Not Run the Efficient Global Optimization Algorithm with Multiple Surrogates?. **2010**,	24
1863	Design Optimization Utilizing Gradient/Hessian Enhanced Surrogate Model. **2010**,	44
1862	Multi-Objective Aerodynamic Shape Optimization of High Speed Train Nose Using Adaptive Surrogate Model. **2010**,	10
1861	Data Mining for the Advection Database of Wake Vortices. **2010**,	
1860	Transonic Aeroelastic Stability Analysis Using a Kriging-Based Schur Complement Formulation. **2010**,	3
1859	Multiobjective Optimization of a Supersonic-Inlet Bypass-Duct Splitter via Surrogate Modeling. **2010**,	1
1858	A Bayesian-Based Approach to Multifidelity Multidisciplinary Design Optimization. **2010**,	12
1857	A Monocone-Bicone Collinear Array. **2010**, 58, 3905-3912	5
1856	Building surrogates with overcomplete bases in computer experiments with applications to bistable laser diodes. **2010**, 43, 39-53	6
1855	On Parallelizing Universal Kriging Interpolation Based on OpenMP. **2010**,	8
1854	Complex Product Modeling and Optimization Based on Approximation Method. **2010**,	
1853	A Sequential Optimization Method Based on Kriging Surrogate Model. **2011**,	2
1852	Hypervolume-based expected improvement: Monotonicity properties and exact computation. **2011**,	65
1851	Evolutionary multi-objective optimization using expected improvement and generalized DEA. **2011**,	1

1850	Design-informatics approach applicable to real-world problem. **2011**,	1
1849	Extension to the Class-Shape-Transformation Method Based on B-Splines. **2011**, 49, 780-790	30
1848	Dynamic Data-Driven Modeling of Pharmaceutical Processes. **2011**, 50, 6743-6754	41
1847	Transonic Aeroelastic Instability Searches Using Sampling and Aerodynamic Model Hierarchy. **2011**, 49, 1191-1201	22
1846	Dimension Reduction for Aerodynamic Design Optimization. **2011**, 49, 1256-1266	29
1845	Transonic Aeroelastic Stability Analysis Using a Kriging-Based Schur Complement Formulation. **2011**, 49, 1202-1213	41
1844	Global Convergence of Radial Basis Function Trust Region Derivative-Free Algorithms. **2011**, 21, 761-781	37
1843	Singular Continuation: Generating Piecewise Linear Approximations to Pareto Sets via Global Analysis. **2011**, 21, 463-490	22
1842	Statistical analysis and compound selection of combinatorial libraries for soluble epoxide hydrolase. **2011**, 51, 1582-92	6
1841	Comparison of Adaptive Sampling Methods for Generation of Surrogate Aerodynamic Models. **2011**,	2
1840	Derivative-Enhanced Variable Fidelity Surrogate Modeling for Aerodynamic Functions. **2011**,	9
1839	Integrating User-Preference Swarm Algorithm and Surrogate Modeling for Airfoil Design. **2011**,	5
1838	Decision Making Under Epistemic Uncertainty for a Complex Mechanical System. **2011**,	1
1837	Rapid Prediction of Worst Case Gust Loads. **2011**,	1
1836	Efficient Global Optimization with Experimental Data: Revisiting the Paper Helicopter Design. **2011**,	4
1835	A Numerical Experiment on Allocating Resources Between Design of Experiment Samples and Surrogate-Based Optimization Infills. **2011**,	1
1834	Reduced-Order Modeling of Hypersonic Unsteady Aerodynamics Due to Multi-Modal Oscillations. **2011**,	1
1833	On the Applicability of an Unsteady Aerodynamic ROM to the Transonic Flight Regime. **2011**,	

1832 A Dynamic Sampling Method for Kriging and Cokriging Surrogate Models. **2011**, — 14

1831 Uncertainty Quantification in Viscous Hypersonic Flows using Gradient Information and Surrogate Modeling. **2011**, — 11

1830 The Correlated Knowledge Gradient for Simulation Optimization of Continuous Parameters using Gaussian Process Regression. **2011**, 21, 996-1026 — 88

1829 Control-Oriented Design Using Surrogate-Based Optimization and Existence Conditions for Robust Performance. **2011**, 49, 2577-2581

1828 A Fast Analog Circuit Analysis Algorithm for Design Modification and Verification. **2011**, 30, 308-313 — 6

1827 The Knowledge Gradient for Optimal Learning. **2011**, — 7

1826 Decision-Theoretic Foundations of Simulation Optimization. **2011**, — 2

1825 Estimating Variation in Roof Strength Test. **2011**,

1824 Anti-Roll Bar Link Toggling: Investigation and Optimization of a Robustness Problem. **2011**, — 1

1823 Optimization of a Mono-fuel Liquid Phase LPG MPI Fuel System. **2011**, — 2

1822 Learning with Dynamic Programming. **2011**, — 5

1821 System development and application of Taylor Kriging metamodeling. **2011**, 28, 220-241 — 2

1820 Gradient-based multifidelity optimisation for aircraft design using Bayesian model calibration. **2011**, 115, 729-738 — 17

1819 Multi-Objective Design Optimization for a Steam Turbine Stator Blade Using LES and GA. **2011**, 5, 134-147 — 15

1818 Min-max hyperparameter tuning, with application to fault detection. **2011**, 44, 12904-12909 — 4

1817 On the generation of flight dynamics aerodynamic tables by computational fluid dynamics. **2011**, 47, 597-620 — 66

1816 An Adaptive Bayesian Method for Semiconductor Manufacturing Process Control With Small Experimental Data Sets. **2011**, 24, 418-431 — 2

1815 Tuner: principled parameter finding for image segmentation algorithms using visual response surface exploration. **2011**, 17, 1892-901 — 72

1814	Synthesis of Integrated Passive Components for High-Frequency RF ICs Based on Evolutionary Computation and Machine Learning Techniques. **2011**, 30, 1458-1468		45
1813	R-EVO: A Reactive Evolutionary Algorithm for the Maximum Clique Problem. **2011**, 15, 770-782		16
1812	A metamodel-assisted evolutionary algorithm for expensive optimization. **2011**, 236, 759-764		22
1811	Robust Gaussian Process-Based Global Optimization Using a Fully Bayesian Expected Improvement Criterion. **2011**, 176-190		23
1810	Mixture surrogate models based on Dempster-Shafer theory for global optimization problems. *Journal of Global Optimization*, **2011**, 51, 79-104	1.5	64
1809	Sequential Approximate Optimization using Radial Basis Function network for engineering optimization. **2011**, 12, 535-557		119
1808	Combinatorial optimization of weld sequence by using a surrogate model to mitigate a weld distortion. **2011**, 7, 123-139		16
1807	VXQR: derivative-free unconstrained optimization based on QR factorizations. **2011**, 15, 2287-2298		12
1806	Reliability-based design optimization using kriging surrogates and subset simulation. **2011**, 44, 673-690		244
1805	Application of SEUMRE global optimization algorithm in automotive magnetorheological brake design. **2011**, 44, 761-772		11
1804	Using adaptive multi-accurate function evaluations in a surrogate-assisted method for computer experiments. **2011**, 235, 3151-3162		2
1803	AK-MCS: An active learning reliability method combining Kriging and Monte Carlo Simulation. **2011**, 33, 145-154		772
1802	Efficient explicit formulation for practical fuzzy structural analysis. **2011**, 36, 463-488		10
1801	Elastic SCAD as a novel penalization method for SVM classification tasks in high-dimensional data. **2011**, 12, 138		37
1800	New Neural Network Response Surface Methods for Reliability Analysis. **2011**, 24, 25-31		28
1799	Surrogate-based superstructure optimization framework. **2011**, 57, 1216-1232		137
1798	Coping with complexity: machine learning optimization of cell-free protein synthesis. **2011**, 108, 2218-28		53
1797	Non-probabilistic finite element analysis for parametric uncertainty treatment in applied mechanics: Recent advances. **2011**, 47, 4-16		167

1778	Curiosity-driven optimization. **2011**,	5
1777	Integrating Least Square Support Vector Regression and Mode Pursuing Sampling Optimization for Crashworthiness Design. **2011**, 133,	15
1776	Efficient Multipoint Aerodynamic Design Optimization Via Cokriging. **2011**, 48, 1685-1695	59
1775	Design optimization of a sport shoe sole structure by evolutionary computation and finite element method analysis. **2011**, 225, 179-188	11
1774	Lipschitz Global Optimization. **2011**,	7
1773	The development of a hybridized particle swarm for kriging hyperparameter tuning. **2011**, 43, 675-699	46
1772	Kriging/RBF-hybrid response surface method for highly nonlinear functions. **2011**,	3
1771	The Knowledge-Gradient Algorithm for Sequencing Experiments in Drug Discovery. **2011**, 23, 346-363	49
1770	A Simple Approach to Emulation for Computer Models With Qualitative and Quantitative Factors. **2011**, 53, 266-273	85
1769	Particle Learning of Gaussian Process Models for Sequential Design and Optimization. **2011**, 20, 102-118	54
1768	Design optimisation of nano-replicated bilayer wire-grid polariser. **2011**, 47, 200	1
1767	Optimization of Balloon-Stent System Based on Nonlinear Material Using Kriging Surrogate Model. **2012**, 502, 463-468	
1766	Efficient multi-objective synthesis for microwave components based on computational intelligence techniques. **2012**,	6
1765	Bayesian Kriging Analysis and Design for Stochastic Simulations. **2012**, 22, 1-26	22
1764	Global Optimization Based on Weighting-Integral Expected Improvement. **2012**, 630, 383-388	1
1763	Efficient global optimization incorporating feasibility criterion for the design of a supersonic inlet. **2012**, 226, 1362-1372	
1762	Transonic Aerodynamic Loads Modeling of X-31 Aircraft. **2012**,	6
1761	Multifidelity Approaches for Parallel Multidisciplinary Optimization. **2012**,	2

1760   Resampling methods for meta-model validation with recommendations for evolutionary computation. **2012**, 20, 249-75   90

1759   Surrogate-Based Agents for Constrained Optimization. **2012**,   5

1758   A Multifidelity Approach to Aerodynamic Analysis in an Integrated Design Environment. **2012**,   1

1757   Efficient Robust Design Optimization by Variable Fidelity Kriging Model. **2012**,   1

1756   Domain Segmentation based on Uncertainty in the Surrogate (DSUS). **2012**,   2

1755   Pheromone-Based Heuristic Column Generation for Vehicle Routing Problems with Black Box Feasibility. **2012**, 260-274   11

1754   Efficient Global Optimization with Adaptive Target for Probability of Targeted Improvement. **2012**,   5

1753   OpenMDAO: Framework for Flexible Multidisciplinary Design, Analysis and Optimization Methods. **2012**,   30

1752   Uncertainty Quantification In Non-planar Crack Growth Analysis. **2012**,

1751   Surrogate-Based Design Optimization with Adaptive Sequential Sampling. **2012**,   4

1750   Challenges with Structural Life Forecasting Using Realistic Mission Profiles. **2012**,   29

1749   Towards Efficient Multiobjective Optimization: Multiobjective statistical criterions. **2012**,   5

1748   A New Approach for the Development of Fast-analysis Proxies for Petroleum Reservoir Simulation. **2012**, 30, 1920-1930   9

1747   Global Optimization Using Mixed Surrogates and Space Elimination in Computationally Intensive Engineering Designs. **2012**, 13, 272-289   4

1746   A Kriging constrained efficient global optimization approach applied to low-energy building design problems. **2012**, 20, 1101-1114   18

1745   A Software Framework for Automated Behavioral Modeling of Electronic Devices [Application Notes]. **2012**, 13, 102-118   3

1744   Design-Informatics Approach for Intimate Configuration of Silent Supersonic Technology Demonstrator. **2012**, 49, 1200-1211   28

1743   Non-stationary kriging for design optimization. **2012**, 44, 741-765   14

1742	Efficient discrete optimization via simulation using stochastic kriging. **2012**,	4
1741	Exploration versus exploitation using kriging surrogate modelling in electromagnetic design. **2012**, 31, 1541-1551	17
1740	A Nested Extreme Response Surface Approach for Time-Dependent Reliability-Based Design Optimization. **2012**, 134,	137
1739	Simulation Based Design of Disk Resonator Biosensors Under Fabrication Uncertainty. **2012**, 134,	4
1738	A Sequential Sampling Strategy to Improve Reliability-Based Design Optimization With Implicit Constraint Functions. **2012**, 134,	43
1737	Multimodal Particle Swarm Optimization: Enhancements and Applications. **2012**,	5
1736	Design of nonlinear MPC by Kriging-based optimization. **2012**, 45, 1490-1495	3
1735	Automatic design of robust PID controllers based on QFT specifications. **2012**, 45, 715-720	5
1734	Robust automatic tuning of diagnosis methods via an efficient use of costly simulations. **2012**, 45, 398-403	5
1733	Selection of anisotropic kernel parameters using multiple surrogate information. **2012**,	4
1732	Multiresponse Metamodeling in Simulation-Based Design Applications. **2012**, 134,	11
1731	Efficient Global Optimization Applied to Design and Knowledge Discovery of Supersonic Wing. **2012**, 6, 1-15	3
1730	Uncertainty Quantification in Surrogate Models Based on Pattern Classification of Cross-validation Errors. **2012**,	3
1729	Determination of plastic material properties by analysis of residual imprint geometry of indentation. **2012**, 27, 2167-2177	15
1728	A Warpage Optimization Method for Injection Molding Using Artificial Neural Network Combined Weighted Expected Improvement. **2012**, 27, 341-347	2
1727	Efficient Kriging-Based Aerodynamic Design of Transonic Airfoils: Some Key Issues. **2012**,	12
1726	Unsteady Aerodynamics Modeling for Aircraft Maneuvers: a New Approach Using Time-Dependent Surrogate Modeling. **2012**,	13
1725	Kriging/RBF-Hybrid Response Surface Methodology for Highly Nonlinear Functions. **2012**, 6, 81-96	9

1724	An Efficient High-Frequency Linear RF Amplifier Synthesis Method Based on Evolutionary Computation and Machine Learning Techniques. **2012**, 31, 981-993		32
1723	Improvement of tablet coating uniformity using a quality by design approach. **2012**, 13, 231-46		17
1722	Review of surrogate modeling in water resources. **2012**, 48,		447
1721	Surrogate modeling in the evolutionary optimization of catalytic materials. **2012**,		5
1720	Hybrid and adaptive meta-model-based global optimization. **2012**, 44, 87-104		64
1719	Biconical Antenna Over Ground Plane. **2012**, 60, 2093-2096		2
1718	Sequential design for computer experiments with a flexible Bayesian additive model. **2012**, 40, 663-678		16
1717	Inverse modelling of an aneurysm stiffness using surrogate-based optimization and fluid-structure interaction simulations. **2012**, 46, 457-469		7
1716	Robust springback optimization of a dual phase steel seven-flange die assembly. **2012**, 46, 425-444		6
1715	Expected improvement in efficient global optimization through bootstrapped kriging. *Journal of Global Optimization*, **2012**, 54, 59-73	1.5	69
1714	High-fidelity optimization framework for helicopter rotors. **2012**, 23, 2-16		30
1713	Response surface methodology with prediction uncertainty: A multi-objective optimisation approach. **2012**, 90, 1235-1244		44
1712	Comparison of the criteria for updating Kriging response surface models in multi-objective optimization. **2012**,		11
1711	A hybrid model-classifier framework for managing prediction uncertainty in expensive optimisation problems. **2012**, 43, 1305-1321		2
1710	Gaussian Process Single-Index Models as Emulators for Computer Experiments. **2012**, 54, 30-41		36
1709	Optimization of computationally expensive simulations with Gaussian processes and parameter uncertainty: Application to cardiovascular surgery. **2012**,		6
1708	Efficient optimization methodology for CT functions based on a modified bayesian kriging approach. **2012**,		1
1707	Reliability-based product design with time-dependent performance deterioration. **2012**,		7

1706	Semianalytical Bubble-Flow Models for the Development of a Novel Bubble-Column Simulator. **2012**, 51, 7398-7409	
1705	Accurate on-chip router area modeling with kriging methodology. **2012**,	3
1704	A computational intelligence algorithm for expensive engineering optimization problems. **2012**, 25, 1009-1021	21
1703	Infill sampling criteria for surrogate-based optimization with constraint handling. **2012**, 44, 1147-1166	117
1702	Multiobjective Evolutionary Algorithms in Aeronautical and Aerospace Engineering. **2012**, 16, 662-694	95
1701	Model guided adaptive design and analysis in computer experiment. **2012**, 5, 399-409	1
1700	Dynamic optimization of distributed biological systems using robust and efficient numerical techniques. **2012**, 6, 79	10
1699	Hierarchical Kriging Model for Variable-Fidelity Surrogate Modeling. **2012**, 50, 1885-1896	163
1698	Cokriging for Robust Design Optimization. **2012**, 50, 2351-2364	40
1697	Global optimization method using SLE and adaptive RBF based on fuzzy clustering. **2012**, 25, 768-775	18
1696	A Rigorous Runtime Analysis for Quasi-Random Restarts and Decreasing Stepsize. **2012**, 37-48	6
1695	Advances in variation-aware modeling, verification, and testing of analog ICs. **2012**,	4
1694	Bayesian policy support for adaptive strategies using computer models for complex physical systems. **2012**, 63, 1021-1033	12
1693	Sequential approximate optimization for discrete design variable problems using radial basis function network. **2012**, 219, 4143-4156	2
1692	Sensitivity of night cooling performance to room/system design: Surrogate models based on CFD. **2012**, 58, 23-36	15
1691	Exploring multi-stage shape optimization strategy of multi-body geometries using Kriging-based model and adjoint method. **2012**, 68, 71-87	9
1690	Two-stage planar approximation of non-planar crack growth. **2012**, 96, 147-164	4
1689	Predictable Equation-Based Analog Optimization Based on Explicit Capture of Modeling Error Statistics. **2012**, 31, 1485-1498	14

1670	Update 1 of: Sensitivity analysis for chemical models. **2012**, 112, PR1-21		62
1669	A Kriging-based algorithm to optimize production systems approximated by analytical models. **2012**, 23, 587-597		17
1668	An experimental methodology for response surface optimization methods. *Journal of Global Optimization*, **2012**, 53, 699-736	1.5	25
1667	Sequential design of computer experiments for the estimation of a probability of failure. **2012**, 22, 773-793		165
1666	Optimal structural design of the midship of a VLCC based on the strategy integrating SVM and GA. **2012**, 11, 59-67		5
1665	Sequential sampling for contour estimation with concurrent function evaluations. **2012**, 45, 615-618		14
1664	Constrained efficient global optimization with support vector machines. **2012**, 46, 201-221		98
1663	Constrained multifidelity optimization using model calibration. **2012**, 46, 93-109		39
1662	Sequential robust optimization of a V-bending process using numerical simulations. **2012**, 46, 137-153		31
1661	An adaptive hybrid surrogate model. **2012**, 46, 223-238		84
1660	Two-level refined direct optimization scheme using intermediate surrogate models for electromagnetic optimization of a switched reluctance motor. **2012**, 28, 199-207		5
1659	Atomistically informed crystal plasticity model for body-centered cubic iron. **2012**, 60, 3894-3901		57
1658	A computational intelligence algorithm for simulation-driven optimization problems. **2012**, 47, 62-71		1
1657	Blind Kriging: Implementation and performance analysis. **2012**, 49, 1-13		98
1656	Lipschitz gradients for global optimization in a one-point-based partitioning scheme. **2012**, 236, 4042-4054		41
1655	High dimensional model representation based formulations for fuzzy finite element analysis of structures. **2012**, 50, 217-230		46
1654	Surrogate-enhanced simulation of aircraft in trimmed state. **2012**, 217-220, 96-110		6
1653	Feasibility analysis of black-box processes using an adaptive sampling Kriging-based method. **2012**, 36, 358-368		58

1652	Response surface strategies in constructing statistical bubble flow models for the development of a novel bubble column simulation approach. **2012**, 36, 22-34		14
1651	Local search based heuristics for global optimization: Atomic clusters and beyond. **2012**, 222, 1-9		10
1650	Numerical assessment of metamodelling strategies in computationally intensive optimization. **2012**, 34, 67-86		104
1649	Robust design optimization of the vibrating rotor-shaft system subjected to selected dynamic constraints. **2012**, 29, 34-44		17
1648	OSCAR: An Optimization Methodology Exploiting Spatial Correlation in Multicore Design Spaces. **2012**, 31, 740-753		21
1647	Information-Theoretic Regret Bounds for Gaussian Process Optimization in the Bandit Setting. **2012**, 58, 3250-3265		265
1646	Comparison of Efficient Global Optimization and Output Space Mapping on the Biobjective Optimization of a Safety Isolating Transformer. **2012**, 48, 791-794		8
1645	Dynamic substructuring and reanalysis methods in a surrogate-based design optimization environment. **2012**, 45, 129-138		6
1644	Min Median Max metamodel-based unconstrained nonlinear optimization problems. **2012**, 45, 401-415		7
1643	Geometry parameterization and multidisciplinary constrained optimization of coronary stents. **2012**, 11, 61-82		68
1642	Surrogate modeling of microwave structures using kriging, co-kriging, and space mapping. **2013**, 26, 64-73		22
1641	An Efficient Adaptive Sequential Methodology for Expensive Response Surface Optimization. **2013**, 29, 799-817		7
1640	Global search perspectives for multiobjective optimization. *Journal of Global Optimization*, **2013**, 57, 385-398	1.5	9
1639	Integrated experimental design and nonlinear optimization to handle computationally expensive models under resource constraints. *Journal of Global Optimization*, **2013**, 57, 191-215	1.5	7
1638	Global optimization of expensive black box problems with a known lower bound. *Journal of Global Optimization*, **2013**, 57, 177-190	1.5	21
1637	A quasi-multistart framework for global optimization of expensive functions using response surface models. *Journal of Global Optimization*, **2013**, 56, 1719-1753	1.5	54
1636	Examples of inconsistency in optimization by expected improvement. *Journal of Global Optimization*, **2013**, 56, 1773-1790	1.5	7
1635	A continuation approach to mode-finding of multivariate Gaussian mixtures and kernel density estimates. *Journal of Global Optimization*, **2013**, 56, 459-487	1.5	3

1634	Efficient global optimization algorithm assisted by multiple surrogate techniques. *Journal of Global Optimization*, **2013**, 56, 669-689	1.5	176
1633	Worst-case global optimization of black-box functions through Kriging and relaxation. *Journal of Global Optimization*, **2013**, 55, 707-727	1.5	45
1632	Setting targets for surrogate-based optimization. *Journal of Global Optimization*, **2013**, 55, 857-875	1.5	7
1631	Simultaneous kriging-based estimation and optimization of mean response. *Journal of Global Optimization*, **2013**, 55, 313-336	1.5	47
1630	Design optimization of balloon-expandable coronary stent. **2013**, 48, 837-847		12
1629	Cross-validation based single response adaptive design of experiments for Kriging metamodeling of deterministic computer simulations. **2013**, 48, 581-605		64
1628	A benchmark of kriging-based infill criteria for noisy optimization. **2013**, 48, 607-626		132
1627	Sequential approximate multi-objective optimization using radial basis function network. **2013**, 48, 501-515		47
1626	Exploring or reducing noise?. **2013**, 47, 921-936		2
1625	A warpage optimization method for injection molding using artificial neural network with parametric sampling evaluation strategy. **2013**, 65, 343-353		46
1624	Gradient-based methods for uncertainty quantification in hypersonic flows. **2013**, 85, 27-38		43
1623	Fast Sequential Computer Model Calibration of Large Nonstationary Spatial-Temporal Processes. **2013**, 55, 232-242		19
1622	Proper Orthogonal Decomposition, surrogate modelling and evolutionary optimization in aerodynamic design. **2013**, 84, 327-350		58
1621	Kriging Controllers for Cloud Applications. **2013**, 17, 40-47		13
1620	Experimental Designs. **2013**, 183-241		
1619	Optimizing the design of a bioabsorbable metal stent using computer simulation methods. **2013**, 34, 8049-60		61
1618	A surrogate-based particle swarm optimization algorithm for solving optimization problems with expensive black box functions. **2013**, 45, 557-576		58
1617	Combining radial basis function surrogates and dynamic coordinate search in high-dimensional expensive black-box optimization. **2013**, 45, 529-555		125

| 1598 | Quantile-Based Optimization of Noisy Computer Experiments With Tunable Precision. **2013**, 55, 2-13 | 97 |

| 1597 | Surrogate Based Design Optimization of Aerostat Envelope. **2013**, | 4 |

| 1596 | A new response surface approach for time-variant reliability analysis. **2013**, | |

| 1595 | Comparison of several heuristic approaches to calibration of WATCLASS hydrologic model1 ? Member of CWRA. View all notes. **2013**, 38, 40-46 | 4 |

| 1594 | Wind tunnel evaluation-based optimization for improvement of flow control by plasma actuator using kriging model-based genetic algorithm. **2013**, | 1 |

| 1593 | Cost-effective CO2 capture based on in silico screening of zeolites and process optimization. **2013**, 15, 17601-18 | 105 |

| 1592 | Reliable reduced cost modeling and design optimization of microwave filters using co-kriging. **2013**, 26, 493-505 | 8 |

| 1591 | A Nonstationary Space-Time Gaussian Process Model for Partially Converged Simulations. **2013**, 1, 57-78 | 15 |

| 1590 | Bayesian active learning for drug combinations. **2013**, 60, 3248-55 | 12 |

| 1589 | Expensive multiobjective optimization for robotics. **2013**, | 19 |

| 1588 | An adaptive radial basis function method using weighted improvement. **2013**, | 4 |

| 1587 | . **2013**, | 4 |

| 1586 | Simulation optimization via kriging: a sequential search using expected improvement with computing budget constraints. **2013**, 45, 763-780 | 49 |

| 1585 | Testing elastic systems with surrogate models. **2013**, | 4 |

| 1584 | Variable-Fidelity Electromagnetic Simulations and Co-Kriging for Accurate Modeling of Antennas. **2013**, 61, 1301-1308 | 60 |

| 1583 | Fast PVT Verification and Design. **2013**, 13-39 | 1 |

| 1582 | Contour estimation via two fidelity computer simulators under limited resources. **2013**, 28, 1813-1834 | 4 |

| 1581 | Variable-fidelity optimization with design space reduction. **2013**, 26, 841-849 | 10 |

1580	Kriging metamodel global optimization of clinching joining processes accounting for ductile damage. **2013**, 213, 1038-1047		56
1579	Univariate interpolation by exponential functions and Gaussian RBFs for generic sets of nodes. **2013**, 166, 163-175		1
1578	A sequential approach for stochastic computer model calibration and prediction. **2013**, 111, 273-286		14
1577	Optimisation of interacting particle systems for rare event estimation. **2013**, 66, 117-128		4
1576	Cross Validation and Maximum Likelihood estimations of hyper-parameters of Gaussian processes with model misspecification. **2013**, 66, 55-69		92
1575	Distance-based kriging relying on proxy simulations for inverse conditioning. **2013**, 52, 275-291		26
1574	Efficient Spatial and Temporal Modelling of Material Temperatures within Self-reinforced Polypropylene Sheets during IR Radiation. **2013**, 9, 49-54		1
1573	Competitive comparison of optimal designs of experiments for sampling-based sensitivity analysis. **2013**, 124, 47-60		16
1572	A new approach for reliability analysis with time-variant performance characteristics. **2013**, 115, 70-81		77
1571	A combined Importance Sampling and Kriging reliability method for small failure probabilities with time-demanding numerical models. **2013**, 111, 232-240		309
1570	Utilizing expected improvement and generalized data envelopment analysis in multi-objective genetic algorithms. *Journal of Global Optimization*, **2013**, 57, 367-384	1.5	2
1569	Derivative-Enhanced Variable Fidelity Surrogate Modeling for Aerodynamic Functions. **2013**, 51, 126-137		69
1568	Comparison of Adaptive Sampling Methods for Generation of Surrogate Aerodynamic Models. **2013**, 51, 797-808		52
1567	On the effect of numerical noise in approximate optimization of forming processes using numerical simulations. **2013**, 7, 317		7
1566	Derivative-free optimization: a review of algorithms and comparison of software implementations. *Journal of Global Optimization*, **2013**, 56, 1247-1293	1.5	658
1565	. **2013**, 17, 122-145		138
1564	Generalized Data Envelopment Analysis and Computational Intelligence in Multiple Criteria Decision Making. **2013**, 209-233		1
1563	Accuracy and tractability of a kriging model of intramolecular polarizable multipolar electrostatics and its application to histidine. **2013**, 34, 1850-61		43

1562	Optimization Methods Based on Surrogate Models. **2013**, 293-312	
1561	Surrogate modeling of 3D crack growth. **2013**, 47, 90-99	15
1560	Numerical optimisation for induction heat treatment processes. **2013**, 37, 2074-2085	34
1559	Active learning of inverse models with intrinsically motivated goal exploration in robots. **2013**, 61, 49-73	207
1558	Robust expected violation criterion for constrained robust design problems and its application in automotive lightweight design. **2013**, 18, 257-263	
1557	Predicting potent compounds via model-based global optimization. **2013**, 53, 553-9	19
1556	Discretization and discrimination methods for design, verification, and testing of analog/mixed-signal circuits. **2013**,	2
1555	Trading accuracy for simplicity in evolutionary algorithms. **2013**,	
1554	Multitarget global sensitivity analysis of n-butanol combustion. **2013**, 117, 3569-84	29
1553	Updating Kriging Surrogate Models Based on the Hypervolume Indicator in Multi-Objective Optimization. **2013**, 135,	27
1552	Objective-Oriented Sequential Sampling for Simulation Based Robust Design Considering Multiple Sources of Uncertainty. **2013**, 135,	25
1551	Crack Identification of Cantilever Plates Based on a Kriging Surrogate Model. **2013**, 135, 510121-5101210	13
1550	XDRA. **2013**,	1
1549	Metamodeling approach for efficient estimation of optical properties of turbid media from spatially resolved diffuse reflectance measurements. **2013**, 21, 32630-42	24
1548	Impact of Turbulence Closures and Numerical Errors for the Optimization of Flow Control Devices. **2013**,	
1547	Noisy optimization complexity under locality assumption. **2013**,	8
1546	An evaluation of sequential model-based optimization for expensive blackbox functions. **2013**,	24
1545	PIV Data Analysis around a Flapping Wing via Proper Orthogonal Decomposition. **2013**,	

1526	Novelty and interestingness measures for design-space exploration. **2013**,	7
1525	Navigating the protein fitness landscape with Gaussian processes. **2013**, 110, E193-201	153
1524	Analysis of Bulky Crash Simulation Results: Deterministic and Stochastic Aspects. **2013**, 225-237	1
1523	Dynamic Adaptive Sampling Based on Kriging Surrogate Models for Efficient Uncertainty Quantification. **2013**,	14
1522	Surrogate-based Aerodynamic Shape Optimization with Application to Wind Turbine Airfoils. **2013**,	10
1521	Dynamic Design Space Partitioning for Optimization of an Integrated Thermal Protection System. **2013**,	8
1520	Optimization of the Kinematics of a Flapping Wing MAV in Hover for Enhanced Performance. **2013**,	4
1519	Propagation of Structural Uncertainty to Worst Case Gust Loads Predictions. **2013**,	
1518	An Artificial Neural Network Residual Kriging Based Surrogate Model for Shape and Size Optimization of a Stiffened Panel. **2013**,	5
1517	Dynamic Reliability-Based Robust Design with Time-Variant Probabilistic Constraints. **2013**,	
1516	Quantifying Regional Error in Surrogates by Modeling its Relationship with Sample Density. **2013**,	2
1515	Conceptual Design of Single-Stage Launch Vehicle with Hybrid Rocket Engine for Scientific Observation Using Design Informatics. **2013**, 6, 15-27	8
1514	Variable selection and sensitivity analysis using dynamic trees, with an application to computer code performance tuning. **2013**, 7,	17
1513	Sequential Bayes-Optimal Policies for Multiple Comparisons with a Known Standard. **2013**, 61, 1174-1189	16
1512	Parameter tuning for a multi-fidelity dynamical model of the magnetosphere. **2013**, 7,	13
1511	Using the Efficient Global Optimization Algorithm to Assist Nuclear Criticality Safety Assessment. **2013**, 175, 1-18	3
1510	Advanced InSAR Technology for Reservoir Monitoring and Geomechanical Model Calibration. **2013**,	4
1509	An Adjoint-Based Aerodynamic Shape Optimization Methodology for Fairing Systems. **2013**,	

1508   Estimation of plume distribution for carbon sequestration using parameter estimation with limited monitoring data. **2013**, 49, 4442-4464   23

1507   Influence of Difference among Evolutionary Computations for Design Information. **2013**, 7, 184-195

1506   Bootstrapping and Conditional Simulation in Kriging: Better Confidence Intervals and Optimization?. **2013**,

1505   A MULTI-FIDELITY BASED ADAPTIVE SAMPLING OPTIMISATION APPROACH FOR THE RAPID DESIGN OF DOUBLE-NEGATIVE METAMATERIALS. **2013**, 55, 87-114   3

1504   Bayesian Adaptive Sampling for Categorical Design Alternatives. **2013**,   1

1503   A Statistical Approach for Correlation/Validation of Hot-Soak Terminal Temperature of a Vehicle Cabin CFD Model. **2013**,   2

1502   Heat Exchanger Optimization Using Approximation and Parallel Parameterized CFD (PPCFD). **2013**,   1

1501   Design optimization of coronary stent based on finite element models. **2013**, 2013, 630243   8

1500   Drug release analysis and optimization for drug-eluting stents. **2013**, 2013, 827839   3

1499   Multiobjective robust design of the double wishbone suspension system based on particle swarm optimization. **2014**, 2014, 354857   6

1498   KRIGING-PARETO FRONT APPROACH FOR THE MULTI-OBJECTIVE EXPLORATION OF METAMATERIAL TOPOLOGIES. **2014**, 39, 141-150   2

1497   Global Search for Diverse Competitive Designs. **2014**,   1

1496   Simulation-optimization via Kriging and bootstrapping: a survey. **2014**, 8, 241-250   28

1495   Pareto front estimation for decision making. **2014**, 22, 651-78   41

1494   SO-MODS: Optimization for high dimensional computationally expensive multi-modal functions with surrogate search. **2014**,   3

1493   Fast interpolation algorithm for the calculation of thermodynamic property maps of microstructures. **2014**, 22, 085002   6

1492   References. **2014**, 239-241

1491   Optimization of an Airborne Wind Energy system using constrained Gaussian Processes. **2014**,   2

1490 Distance Measures for Permutations in Combinatorial Efficient Global Optimization. **2014**, 373-383   15

1489 Efficient global optimization for combinatorial problems. **2014**,   34

1488 Bayesian Adaptive Reconstruction of Profile Optima and Optimizers. **2014**, 2, 490-510   12

1487 Towards Early Estimation of Part Accuracy in Additive Manufacturing. **2014**, 21, 300-305   37

1486 Framework for the optimization of online computable models. **2014**, 33, 745-758   4

1485 Geometric Generalisation of Surrogate Model-Based Optimisation to Combinatorial and Program Spaces. **2014**, 2014, 1-10   7

1484 A study on constrained efficient global optimization method for noisy computational fluid dynamics data. **2014**, 228, 908-919

1483 Balancing Exploitation and Exploration in Discrete Optimization via Simulation Through a Gaussian Process-Based Search. **2014**, 62, 1416-1438   29

1482 Efficient Global Optimization using a Multi-point and Multi-objective Infill Sampling Criteria. **2014**,   2

1481 Discrete optimization via simulation using Gaussian Markov random fields. **2014**,   13

1480 A unified race algorithm for offline parameter tuning. **2014**,

1479 A Hybrid Differential Evolution Self-Organizing-Map Algorithm for Optimization of Expensive Black-box Functions. **2014**,   3

1478 Characterizing Uncertainty Attributable to Surrogate Models. **2014**, 136,   9

1477 Methodology for Global Optimization of Computationally Expensive Design Problems. **2014**, 136,   8

1476 Evaluating components of artificial immune algorithms: A Performance-aware Method based on Evolutionary Calibrator. **2014**,   0

1475 Expensive multiobjective optimization for robotics with consideration of heteroscedastic noise. **2014**,   5

1474 Demo. **2014**,

1473 Multidisciplinary Performance Based Optimization of Morphing Aircraft. **2014**,   2

1472   Surrogate modeling techniques for frequency-selective surfaces and metamaterials design. **2014**,

1471   Electrical machine optimization using a kriging predictor. **2014**,   5

1470   Hypervolume-based local search in multi-objective evolutionary optimization. **2014**,   8

1469   An SbD-QCTO Approach to the Synthesis of Isotropic Metamaterial Lenses. **2014**, 13, 1783-1786   17

1468   A new sample update strategy based on kringing. **2014**,

1467   Truss structure satellite bus geometry-structure optimization involving mixed variables and expensive models using metamodel-based optimization strategy. **2014**,

1466   Assisted history matching using artificial neural network based global optimization method ▯ Applications to Brugge field and a fractured Iranian reservoir. **2014**, 123, 46-61   26

1465   Calibration of forcefields for molecular simulation: sequential design of computer experiments for building cost-efficient kriging metamodels. **2014**, 35, 130-49   19

1464   A Parallel Optimization Algorithm based on FANOVA Decomposition. **2014**, 30, 961-974   6

1463   Piezoelectric-based non-destructive monitoring of contact pressures in fine-blanking process. **2014**, 228, 927-936   5

1462   A surrogate-based optimization method with RBF neural network enhanced by linear interpolation and hybrid infill strategy. **2014**, 29, 406-429   32

1461   . **2014**, 8, 1111-1126   23

1460   Adaptive Optimization with Weld Fatigue Constraints Based on Surrogate Model for Railway Vehicles. **2014**, 42, 244-254   11

1459   Fast Parallel Kriging-Based Stepwise Uncertainty Reduction With Application to the Identification of an Excursion Set. **2014**, 56, 455-465   64

1458   Analytical uncertainty quantification for modal frequencies with structural parameter uncertainty using a Gaussian process metamodel. **2014**, 75, 577-589   38

1457   Applied Technology with an Improved EGO Algorithm for Incremental Kriging. **2014**, 662, 277-280

1456   Optimization of Surface Texturing for Contact Between Steel and Ultrahigh Molecular Weight Polyethylene Under Boundary Lubrication. **2014**, 56, 409-422   22

1455   An ordinal transformation framework for multi-fidelity simulation optimization. **2014**,   9

| 1454 | Efficient multi-objective optimization of wireless network problems on wireless testbeds. **2014**, | | 2 |

1454 Efficient multi-objective optimization of wireless network problems on wireless testbeds. **2014**, 2

1453 Reliability-based fatigue life investigation for a medium-scale composite hydrokinetic turbine blade. **2014**, 89, 230-242 22

1452 A reliability analysis method for fatigue design. **2014**, 59, 292-300 29

1451 A robust and efficient triangulation-based optimization algorithm for stochastic black-box systems. **2014**, 60, 143-153

1450 Computationally efficient prediction of bone-implant interface micromotion of a cementless tibial tray during gait. **2014**, 47, 1718-26 22

1449 Efficient optimization of the likelihood function in Gaussian process modelling. **2014**, 73, 40-52 11

1448 Tooling geometry optimization for compensation of cure-induced distortions of a curved carbon/epoxy C-spar. **2014**, 56, 27-35 36

1447 Engineering design applications of surrogate-assisted optimization techniques. **2014**, 15, 243-265 33

1446 Response Surfaces with Discounted Information for Global Optima Tracking in Dynamic Environments. **2014**, 57-69

1445 Constrained optimization by radial basis function interpolation for high-dimensional expensive black-box problems with infeasible initial points. **2014**, 46, 218-243 121

1444 Electromagnetic Design Automation: Surrogate Model Assisted Evolutionary Algorithm. **2014**, 133-151

1443 A Gaussian Process Surrogate Model Assisted Evolutionary Algorithm for Medium Scale Expensive Optimization Problems. **2014**, 18, 180-192 233

1442 Design of experiments for interpolation-based metamodels. **2014**, 44, 14-25 5

1441 An efficient truss structure optimization framework based on CAD/CAE integration and sequential radial basis function metamodel. **2014**, 50, 329-346 22

1440 Warpage reduction with variable pressure profile in plastic injection molding via sequential approximate optimization. **2014**, 72, 827-838 46

1439 Fast calculation of multiobjective probability of improvement and expected improvement criteria for Pareto optimization. *Journal of Global Optimization*, **2014**, 60, 575-594 1.5 107

1438 A variance-based method to rank input variables of the Mesh Adaptive Direct Search algorithm. **2014**, 8, 1599-1610 8

1437 Discovery of novel zeolites for natural gas purification through combined material screening and process optimization. **2014**, 60, 1767-1785 78

1418   Blind Categorical Deconvolution in Two-Level Hidden Markov Models. **2014**, 52, 7435-7447   16

1417   . **2014**,

1416   Axial flow compressor blade optimization through flexible shape tuning by means of cooperative co-evolution algorithm and adaptive surrogate model. **2014**, 228, 782-798   11

1415   Discrete element reduced-order modeling of dynamic particulate systems. **2014**, 60, 3184-3194   26

1414   Estimating Percentiles in Computer Experiments: A Comparison of Sequential-Adaptive Designs and Fixed Designs. **2014**, 8, 12-29   5

1413   Bounding rare event probabilities in computer experiments. **2014**, 80, 153-166   5

1412   An evaluation of adaptive surrogate modeling based optimization with two benchmark problems. **2014**, 60, 167-179   127

1411   Bilevel Optimization Strategy for Aircraft Wing Design Using Parallel Computing. **2014**, 52, 1770-1783   10

1410   Including network knowledge into Cox regression models for biomarker signature discovery. **2014**, 56, 287-306   9

1409   Prediction of Intramolecular Polarization of Aromatic Amino Acids Using Kriging Machine Learning. **2014**, 10, 3708-19   30

1408   Optimal design of the front linkage of a hydraulic excavator for multi-objective function. **2014**, 28, 3103-3111   14

1407   A derivative-free methodology with local and global search for the constrained joint optimization of well locations and controls. **2014**, 18, 463-482   95

1406   Fast and Reliable Metamodeling of Complex Reaction Spaces Using Universal Kriging. **2014**, 118, 20026-20033   36

1405   A generalized ‭max-min‭ sample for surrogate update. **2014**, 49, 683-687   22

1404   A workflow for decision making under uncertainty. **2014**, 18, 519-533   4

1403   SO-I: a surrogate model algorithm for expensive nonlinear integer programming problems including global optimization applications. *Journal of Global Optimization*, **2014**, 59, 865-889   1.5   39

1402   Asymptotic analysis of the role of spatial sampling for covariance parameter estimation of Gaussian processes. **2014**, 125, 1-35   23

1401   Parameter identification and calibration of the Xin‭njiang model using the surrogate modeling approach. **2014**, 8, 264-281   6

1400	. **2014**, 33, 169-182		42
1399	Surrogate-Based Optimization of Expensive-to-Evaluate Objective for Optimal Highway Toll Charges in Transportation Network. **2014**, 29, 359-381		71
1398	Optimization of Flexible Flapping-Wing Kinematics in Hover. **2014**, 52, 2342-2354		14
1397	Value of information method for optimization and experimental design using surrogate models. **2014**, 2, 108-111		1
1396	Kriging model based many-objective optimization with efficient calculation of expected hypervolume improvement. **2014**,		9
1395	Efficient Global Optimization with Adaptive Target Setting. **2014**, 52, 1573-1578		34
1394	Using Cross-Validation to Design Trend Function in Kriging Surrogate Modeling. **2014**, 52, 2313-2327		25
1393	Combining Gaussian processes, mutual information and a genetic algorithm for multi-target optimization of expensive-to-evaluate functions. **2014**, 46, 1593-1607		21
1392	The use of partially converged simulations in building surrogate models. **2014**, 67, 186-197		9
1391	Multivariate versus univariate Kriging metamodels for multi-response simulation models. **2014**, 236, 573-582		43
1390	Regional sensitivity analysis of aleatory and epistemic uncertainties on failure probability. **2014**, 46, 209-226		14
1389	Estimating sensitivity indices based on Gaussian process metamodels with compactly supported correlation functions. **2014**, 144, 160-172		6
1388	Expected improvement in efficient experimental design supported by a global optimizer. **2014**, 45, 1369-1388		3
1387	Integration of different models in the design of chemical processes: Application to the design of a power plant. **2014**, 124, 256-273		16
1386	KrigInv: An efficient and user-friendly implementation of batch-sequential inversion strategies based on kriging. **2014**, 71, 1021-1034		18
1385	Derivative-free optimization for expensive constrained problems using a novel expected improvement objective function. **2014**, 60, 2462-2474		42
1384	Influence of ensemble surrogate models and sampling strategy on the solution quality of algorithms for computationally expensive black-box global optimization problems. *Journal of Global Optimization*, **2014**, 60, 123-144	1.5	99
1383	Learning surrogate models for simulation-based optimization. **2014**, 60, 2211-2227		210

1382	Inventory routing for dynamic waste collection. **2014**, 34, 1564-76	42
1381	Winglet multi-objective shape optimization. **2014**, 37, 93-109	18
1380	Adaptive sequential sampling for surrogate model generation with artificial neural networks. **2014**, 68, 220-232	120
1379	Noisy kriging-based optimization methods: A unified implementation within the DiceOptim package. **2014**, 71, 1035-1053	27
1378	An Adaptive Sequential Experimentation Methodology for Expensive Response Surface Optimization Case Study in Traumatic Brain Injury Modeling. **2014**, 30, 767-793	7
1377	A Robust Error-Pursuing Sequential Sampling Approach for Global Metamodeling Based on Voronoi Diagram and Cross Validation. **2014**, 136,	54
1376	Application of Multifidelity Expected Improvement Algorithms to Aeroelastic Design Optimization. **2014**,	4
1375	A Maximum Confidence Enhancement Based Sequential Sampling Scheme for Simulation-Based Design. **2014**, 136,	85
1374	Value-Based Global Optimization. **2014**, 136,	23
1373	Efficient Global Optimization of Vortex Generators on a Super Critical Infinite-Wing Using Kriging-Based Surrogate Models. **2014**,	6
1372	RBF Metamodel Assisted Global Optimization Method Using Particle Swarm Evolution and Fuzzy Clustering for Sequential Sampling. **2014**,	0
1371	Optimistic Bias in Surrogate Prediction near Surrogate Optima. **2014**,	
1370	Wear Prediction of a Mechanism With Joint Clearance Involving Aleatory and Epistemic Uncertainty. **2014**, 136,	18
1369	PIV data reconstruction via proper orthogonal decomposition with a cross validation approach. **2014**, 9, JFST0066-JFST0066	1
1368	Advanced Kriging response surface approach for efficient design optimization. **2014**, 80, TRANS0285-TRANS0285	
1367	Sampling Strategies for Reduced-Order Modeling of Nonlinear and Unsteady Aerodynamics. **2014**,	2
1366	2.3.2 Reducing the Effort for LCC Evaluation and Optimization. **2014**, 24, 196-206	
1365	Minimizing Part Warpage in Injection Molding by Optimizing Wall Thickness Distribution. **2014**, 33, n/a-n/a	3

1364	Assisted History Matching Benchmarking: Design of Experiments-based Techniques. **2014**,	22
1363	Advantages of surrogate models for architectural design optimization. **2015**, 29, 471-481	34
1362	A Sequential Maximin Latin Hypercube Sampling Method And Its Application to Aircraft Design. **2015**,	
1361	Dakota: Bridging Advanced Scalable Uncertainty Quantification Algorithms with Production Deployment. **2015**, 1-43	3
1360	Realistic sampling of amino acid geometries for a multipolar polarizable force field. **2015**, 36, 1844-57	15
1359	An effective learning procedure for multi-fidelity simulation optimization with ordinal transformation. **2015**,	8
1358	Multi-Objective Experimental Optimization with Multiple Simultaneous Sampling for Flapping Wings. **2015**,	2
1357	Sequential Reliability Estimation Correction (SREC) with Univariate Revolving Integration (URI). **2015**,	2
1356	Optimum layout of vortex generators for upper surface of wing using efficient global optimization. **2015**, 81, 15-00188-15-00188	1
1355	Surrogate-based Robust Shape Optimization for Vane Clusters. **2015**,	
1354	A Practical Method for Uncertainty Analysis in the Aircraft Conceptual Design Phase. **2015**,	2
1353	Sequential Selection with Unknown Correlation Structures. **2015**, 63, 931-948	17
1352	Aerodynamic Uncertainty Quantification of Supersonic Biplane Airfoil via Polynomial Chaos Approach. **2015**,	7
1351	Error Metrics and the Sequential Refinement of Kriging Metamodels. **2015**, 137,	11
1350	Inexpensive airfoil shape optimization for vertical axis wind turbine and its validation. **2015**, 10, JFST0015-JFST0015	
1349	Selection of additive elements for lead-free solders by use of a Kriging-based method for efficiently searching materials. **2015**, 81, 15-00018-15-00018	
1348	Regional adaptation of a dynamic global vegetation model using a remote sensing data derived land cover map of Russia. **2015**, 10, 125007	6
1347	Effectiveness Indicators for Stopping Criteria based on Minimum Required Improvement. **2015**,	1

| 1346 | Multipoint Design of Vortex Generators on a Swept Infinite-Wing under Cruise and Critical Condition. **2015**, | 2 |

| 1345 | Kriging-based simulation-optimization: A stochastic recursion perspective. **2015**, | 3 |

| 1344 | Line of Sight controller tuning using Bayesian optimization of a high-level optronic criterion. **2015**, 48, 56-61 | |

| 1343 | Multi-fidelity Model Integration for Engineering Design. **2015**, 44, 336-344 | 18 |

| 1342 | A Surrogate-based Adjustment Factor Approach to Multi-Fidelity Design Optimization. **2015**, | 5 |

| 1341 | Solenoidal filtering of volumetric velocity measurements using Gaussian process regression. **2015**, 56, 1 | 15 |

| 1340 | A novel adaptive surrogate modeling-based algorithm for simultaneous optimization of sequential batch process scheduling and dynamic operations. **2015**, 61, 4191-4209 | 16 |

| 1339 | Sequential design for achieving estimated accuracy of global sensitivities. **2015**, 31, 782-800 | 1 |

| 1338 | An Additive Global and Local Gaussian Process model for large data sets. **2015**, | 1 |

| 1337 | Optimizing a Collision-Avoidance System for Closely Spaced Parallel Operations. **2015**, 12, 618-633 | 2 |

| 1336 | Aerodynamic Design Optimization and Drag Visualization of Aircraft using a Drag Breakdown Approach. **2015**, 35, 8-13 | |

| 1335 | A Bayesian Approach to Sequential Optimization based on Computer Experiments. **2015**, 31, 1001-1012 | 4 |

| 1334 | Overview of Selected DOE/NNSA Predictive Science Initiatives: the Predictive Science Academic Alliance Program and the DAKOTA Project (Invited). **2015**, | |

| 1333 | Discussion of Efficient prediction designs for random fields **2015**, 31, 198-200 | |

| 1332 | A review of surrogate models and their application to groundwater modeling. **2015**, 51, 5957-5973 | 232 |

| 1331 | Optimal Product Design by Sequential Experiments in High Dimensions. **2015**, | 1 |

| 1330 | Multi-objective parameter optimization of common land model using adaptive surrogate modeling. **2015**, 19, 2409-2425 | 46 |

| 1329 | Regression and Kriging Metamodels with Their Experimental Designs in Simulation: Review. **2015**, | 4 |

1328	Efficient Global Optimization for Black-Box Simulation Via Sequential Intrinsic Kriging. **2015**,	3
1327	CH<sub>4</sub> parameter estimation in CLM4.5bgc using surrogate global optimization. **2015**, 8, 3285-3310	14
1326	Locally-Optimized Covariance Kriging for Engineering Design Exploration. **2015**,	1
1325	Adaptive Switching of Variable-Fidelity Models in Population-based Optimization Algorithms. **2015**,	1
1324	A Study on Many-Objective Optimization Using the Kriging-Surrogate-Based Evolutionary Algorithm Maximizing Expected Hypervolume Improvement. **2015**, 2015, 1-15	10
1323	Estimation of bulk optical properties of turbid media from hyperspectral scatter imaging measurements: metamodeling approach. **2015**, 23, 26049-63	6
1322	Parametric Sensitivity Analysis for Importance Measure on Failure Probability and Its Efficient Kriging Solution. **2015**, 2015, 1-13	2
1321	A novel sequential approximate optimization approach using data mining for engineering design optimization. **2015**, 30, 1255-1275	7
1320	Surrogate Modeling and Two-Level Infill Criteria Applied to Electromagnetic Device Optimization. **2015**, 51, 1-4	15
1319	Classic Kriging versus Kriging with bootstrapping or conditional simulation: classic Kriging robust confidence intervals and optimization. **2015**, 66, 1804-1814	19
1318	Initial sampling methods in metamodel-assisted optimization. **2015**, 31, 661-680	3
1317	Predictive quantification of surrogate model fidelity based on modal variations with sample density. **2015**, 52, 353-373	40
1316	Mixed Efficient Global Optimization for Time-Dependent Reliability Analysis. **2015**, 137,	122
1315	Modeling and Optimization of Continuous Pharmaceutical Manufacturing Processes. **2015**, 37, 85-92	3
1314	Inversion of hierarchical Bayesian models using Gaussian processes. **2015**, 118, 133-45	11
1313	Optimization of Spot-Welded Joints Combined Artificial Bee Colony Algorithm with Sequential Kriging Optimization. **2015**, 6, 573694-573694	12
1312	Torque control strategy and optimization for fuel consumption and emission reduction in parallel hybrid electric vehicles. **2015**, 52, 595-611	19
1311	Enhancing product robustness in reliability-based design optimization. **2015**, 138, 145-153	20

1310	Ant colony optimization on a limited budget of evaluations. **2015**, 9, 103-124	16
1309	Probabilistic machine learning and artificial intelligence. **2015**, 521, 452-9	823
1308	Correlation matrices in kriging assisted optimisation of electromagnetic devices. **2015**, 9, 189-196	4
1307	Learning hyperparameter optimization initializations. **2015**,	16
1306	Sequential Model-Free Hyperparameter Tuning. **2015**,	11
1305	Optimization Under Constraints by Applying an Asymmetric Entropy Measure. **2015**, 24, 379-393	13
1304	Comparison of the MATSuMoTo library for expensive optimization on the noiseless black-box optimization benchmarking testbed. **2015**,	1
1303	Joint Model Choice and Hyperparameter Optimization with Factorized Multilayer Perceptrons. **2015**,	3
1302	Vacuum interrupter optimization technique using sequential approximation method. **2015**,	
1301	Complex radome design through the Systems-by-Design approach. **2015**,	1
1300	Bayesian Optimization for Broadband High-Efficiency Power Amplifier Designs. **2015**, 63, 4263-4272	43
1299	Evolutionary Optimization of Benchmark Aerodynamic Cases using Physics-based Surrogate Models. **2015**,	5
1298	Optimal Information Blending with Measurements in theL2Sphere. **2015**, 40, 1060-1088	4
1297	Beyond Manual Tuning of Hyperparameters. **2015**, 29, 329-337	70
1296	Effects of the number of design variables on performances in Kriging-model-based many-objective optimization. **2015**,	
1295	Expected hypervolume improvement algorithm for PID controller tuning and the multiobjective dynamical control of a biogas plant. **2015**,	7
1294	Gaussian processes regression for optimizing harmonic impedance trajectories in continuous class-F power amplifier design. **2015**,	
1293	Adaptive combined space-filling and D-optimal designs. **2015**, 53, 5354-5368	3

1292	Improving the dynamic performance of a grid-connected wind energy conversion system using flywheel energy storage system. **2015**,	
1291	Multifidelity Optimization using Statistical Surrogate Modeling for Non-Hierarchical Information Sources. **2015**,	22
1290	Experiments on the CEC 2015 expensive optimization testbed. **2015**,	5
1289	A global optimization algorithm for simulation-based problems via the extended DIRECT scheme. **2015**, 47, 1441-1458	23
1288	Sequentially Refined Latin Hypercube Designs: Reusing Every Point. **2015**, 110, 1696-1706	5
1287	Constrained Efficient Global Optimization for Pultrusion Process. **2015**, 30, 538-551	23
1286	Monotone Emulation of Computer Experiments. **2015**, 3, 370-392	21
1285	Machine Learning-Based Configuration Parameter Tuning on Hadoop System. **2015**,	21
1284	Global Optimization with Sparse and Local Gaussian Process Models. **2015**, 185-196	4
1283	Sequential Design for Optimal Stopping Problems. **2015**, 6, 748-775	18
1282	Statistical Surrogate Formulations for Simulation-Based Design Optimization. **2015**, 137,	20
1281	Online detection and modeling of safety boundaries for aerospace applications using active learning and Bayesian statistics. **2015**,	1
1280	An adaptive metamodel-based global optimization algorithm for black-box type problems. **2015**, 47, 1459-1480	27
1279	Some considerations regarding the use of multi-fidelity Kriging in the construction of surrogate models. **2015**, 51, 1223-1245	62
1278	Simulation-driven design of low-speed wind tunnel contraction. **2015**, 7, 1-12	7
1277	Quantifying uncertainty on Pareto fronts with Gaussian process conditional simulations. **2015**, 243, 386-394	32
1276	Efficient adaptive response surface method using intelligent space exploration strategy. **2015**, 51, 1335-1362	43
1275	Efficient multi-criteria optimization on noisy machine learning problems. **2015**, 29, 357-370	22

1274	A new surrogate modeling technique combining Kriging and polynomial chaos expansions Application to uncertainty analysis in computational dosimetry. **2015**, 286, 103-117	137
1273	Experimental flapping wing optimization and uncertainty quantification using limited samples. **2015**, 51, 957-970	23
1272	Multi-objective optimization design of injection molding process parameters based on the improved efficient global optimization algorithm and non-dominated sorting-based genetic algorithm. **2015**, 78, 1813-1826	36
1271	Synthetic biology for the directed evolution of protein biocatalysts: navigating sequence space intelligently. **2015**, 44, 1172-239	267
1270	Cost optimization and experimental design in milling using surrogate models and value of information. **2015**, 37, 479-486	6
1269	Hypersonic lifting body aerodynamic shape optimization based on the multiobjective evolutionary algorithm based on decomposition. **2015**, 229, 1246-1266	10
1268	Kriging surrogates for evolutionary multi-objective optimization of CPU intensive sheet metal forming applications. **2015**, 8, 469-480	11
1267	Efficient global optimization of multi-parameter network problems on wireless testbeds. **2015**, 29, 15-31	8
1266	Unified Framework for Training Point Selection and Error Estimation for Surrogate Models. **2015**, 53, 215-234	22
1265	Development and validation of a dynamic metamodel based on stochastic radial basis functions and uncertainty quantification. **2015**, 51, 347-368	65
1264	Global optimization of expensive black box functions using potential Lipschitz constants and response surfaces. *Journal of Global Optimization*, **2015**, 63, 229-251	1.5	14
1263	Reduction of calibration effort in FEM-based optimization via numerical and experimental data fusion. **2015**, 51, 463-478	3
1262	Single-crystal nickel-based superalloys developed by numerical multi-criteria optimization techniques: design based on thermodynamic calculations and experimental validation. **2015**, 23, 035004	37
1261	Dynamic performance enhancement of a grid-connected wind farm using doubly fed induction machine-based flywheel energy storage system. **2015**,	4
1260	CH_4 parameter estimation in CLM4.5bgc using surrogate global optimization. **2015**,	7
1259	Multi-fidelity modelling via recursive co-kriging and Gaussian-Markov random fields. **2015**, 471, 20150018	68
1258	Biogeography-based optimization of a variable camshaft timing system. **2015**, 45, 376-387	5
1257	A Black-Box Method for Parametric Model Order Reduction. **2015**, 48, 168-169	1

1238	Optimal learning with a local parametric belief model. *Journal of Global Optimization*, **2015**, 63, 401-425	1.5	3
1237	Statistical surrogate model based sampling criterion for stochastic global optimization of problems with constraints. **2015**, 29, 1421-1427		8
1236	Trust Region Based Mode Pursuing Sampling Method for Global Optimization of High Dimensional Design Problems. **2015**, 137,		24
1235	A kind of balance between exploitation and exploration on kriging for global optimization of expensive functions. **2015**, 29, 2121-2133		9
1234	Efficient global robust optimization of unconstrained problems affected by parametric uncertainties. **2015**, 52, 319-336		13
1233	Conceptual Design of Single-Stage Launch Vehicle with Hybrid Rocket Engine Using Design Informatics. **2015**, 369-384		
1232	Gaussian Process Surrogate Model for Levering Similar Trends Across Concepts. **2015**, 53, 1002-1015		5
1231	RECIFE-MILP: An Effective MILP-Based Heuristic for the Real-Time Railway Traffic Management Problem. **2015**, 16, 2609-2619		33
1230	Gaussian process based modeling and experimental design for sensor calibration in drifting environments. **2015**, 216, 321-331		12
1229	Rigorous design of distillation columns using surrogate models based on Kriging interpolation. **2015**, 61, 2169-2187		42
1228	Uncertainty Visualization of Estimated Damage Using Kriging Model: Application to Time-Domain Reflectometry Sensing. **2015**, 34, 1		1
1227	A fast simulation-based optimization method for inventory control of general supply chain networks under uncertainty. **2015**,		1
1226	Optimizing Thin Film Tool Coatings Using a Finite Element Computer Simulator. **2015**, 27, 461-472		2
1225	Multi-objective optimisation using surrogate models for the design of VPSA systems. **2015**, 82, 318-329		32
1224	Sequential Radial Basis Function Optimization Strategy Using Support Vector Machine for Flight Vehicle Multidisciplinary Design Optimization. **2015**,		
1223	Transferable kriging machine learning models for the multipolar electrostatics of helical deca-alanine. **2015**, 134, 1		12
1222	Wind tunnel experiment based multi-valiable aerodynamic design for drag reduction around cylinder using plasma actuators. **2015**,		
1221	One-Pass Ranking Models for Low-Latency Product Recommendations. **2015**,		6

1220 | The Impact of Initial Designs on the Performance of MATSuMoTo on the Noiseless BBOB-2015 Testbed. **2015**, | 4

1219 | A hybrid algorithm for reliability analysis combining Kriging and subset simulation importance sampling. **2015**, 29, 3183-3193 | 53

1218 | Learning Feature-Parameter Mappings for Parameter Tuning via the Profile Expected Improvement. **2015**, | 2

1217 | Development of an adaptive surrogate model for production optimization. **2015**, 133, 677-688 | 53

1216 | Aerodynamic shape optimization of civil structures: A CFD-enabled Kriging-based approach. **2015**, 144, 154-164 | 59

1215 | Cokriging-Based Sequential Design Strategies Using Fast Cross-Validation Techniques for Multi-Fidelity Computer Codes. **2015**, 57, 418-427 | 46

1214 | Transient stability enhancement of a grid-connected wind farm using an adaptive neuro-fuzzy controlled-flywheel energy storage system. **2015**, 9, 792-800 | 44

1213 | Using differential evolution for compositional history-matching of a tight gas condensate well in the Montney Formation in western Canada. **2015**, 26, 1317-1331 | 17

1212 | Efficient Aerodynamic Shape Optimization of VAWT Airfoil and Its Validation. **2015**, | 1

1211 | A Surrogate Based Optimization Approach for the Development of Uncertainty-Aware Reservoir Operational Rules: the Case of Nestos Hydrosystem. **2015**, 29, 4719-4734 | 12

1210 | A double-loop adaptive sampling approach for sensitivity-free dynamic reliability analysis. **2015**, 142, 346-356 | 51

1209 | Curved fiber paths optimization of a composite cylindrical shell via Kriging-based approach. **2015**, 49, 3583-3597 | 12

1208 | Improving the Fabrication Process of Micro-Air-Vehicle Flapping Wings. **2015**, 53, 3039-3048 | 3

1207 | . **2015**, 64, 3870-3877 | 36

1206 | An evolutionary algorithm with adaptive scalarization for multiobjective bilevel programs. **2015**, | 9

1205 | An efficient Kriging method for global sensitivity of structural reliability analysis with non-probabilistic convex model. **2015**, 229, 442-455 | 9

1204 | Inverse Identification of Process Variations for Thin Steel Sheet Bending. **2015**, 651-653, 1363-1368 | 1

1203 | POPE: post optimization posterior evaluation of likelihood free models. **2015**, 16, 264 |

1202	Probability and convex set hybrid reliability analysis based on active learning Kriging model. **2015**, 39, 3954-3971	57
1201	Hybrid reliability analysis with both random and probability-box variables. **2015**, 226, 1341-1357	36
1200	Tracking global optima in dynamic environments with efficient global optimization. **2015**, 242, 744-755	16
1199	New Optimization Strategy for Design of Active Twist Rotor. **2015**, 53, 436-448	4
1198	An active learning kriging model for hybrid reliability analysis with both random and interval variables. **2015**, 51, 1003-1016	106
1197	Deterministic approaches for solving practical black-box global optimization problems. **2015**, 80, 58-66	46
1196	Multi-fidelity information fusion based on prediction of kriging. **2015**, 51, 1267-1280	23
1195	Multiobjective optimisation on a budget: Exploring surrogate modelling for robust multi-reservoir rules generation under hydrological uncertainty. **2015**, 69, 396-413	44
1194	Dealing with uncertainty in model updating for damage assessment: A review. **2015**, 56-57, 123-149	223
1193	An adaptive-topology ensemble algorithm for engineering optimization problems. **2015**, 16, 303-334	8
1192	Multi-point objective-oriented sequential sampling strategy for constrained robust design. **2015**, 47, 287-307	15
1191	GP-DEMO: Differential Evolution for Multiobjective Optimization based on Gaussian Process models. **2015**, 243, 347-361	37
1190	Efficient global optimization applied to wind tunnel evaluation-based optimization for improvement of flow control by plasma actuators. **2015**, 47, 1226-1242	9
1189	A deterministic global optimization using smooth diagonal auxiliary functions. **2015**, 21, 99-111	54
1188	Update-based evolution control: A new fitness approximation method for evolutionary algorithms. **2015**, 47, 1177-1190	2
1187	Recommendations for the tuning of rare event probability estimators. **2015**, 133, 68-78	7
1186	Multiobjective optimization using Gaussian process emulators via stepwise uncertainty reduction. **2015**, 25, 1265-1280	33
1185	Optimization of the cyclone separator geometry for minimum pressure drop using Co-Kriging. **2015**, 269, 409-424	56

1184	Comparative study on influencing factors in adaptive metamodeling. **2015**, 31, 561-577		10
1183	A multiobjective optimization based framework to balance the global exploration and local exploitation in expensive optimization. *Journal of Global Optimization*, **2015**, 61, 677-694	1.5	40
1182	Numerical Optimization of Thrust Efficiency of Propulsion in Fluid using a Fin with Variable Stiffness. **2016**, 5, 1-9		1
1181	Multivariate Stochastic Process Models for Correlated Responses of Mixed Type. **2016**, 11,		10
1180	Optimization of a Sour Water Stripping Plant Using Surrogate Models. **2016**, 38, 31-36		4
1179	Using Fitness Value for Monitoring Kiwifruit Variant Seedling in Tissue Culture. **2016**, 16, 59-68		
1178	An Improved Approach for Estimating the Hyperparameters of the Kriging Model for High-Dimensional Problems through the Partial Least Squares Method. **2016**, 2016, 1-11		21
1177	Multiobjective Optimization of Turning Cutting Parameters for J-Steel Material. **2016**, 2016, 1-8		11
1176	A Review of Surrogate Assisted Multiobjective Evolutionary Algorithms. **2016**, 2016, 9420460		45
1175	Effective Sampling, Modeling and Optimization of Constrained Black-box Problems. **2016**, 553-558		3
1174	Optimal Design of Cellular Material Systems for Crashworthiness. **2016**,		0
1173	Simulation optimization via promising region search and surrogate model approximation. **2016**,		0
1172	. **2016**,		1
1171	Fundamental Design Optimization of an Innovative Supersonic Transport Configuration and Its Design Knowledge Extraction. **2016**, 59, 340-348		3
1170	Augmented design and analysis of computer experiments: a novel tolerance embedded global optimization approach applied to SWIR hyperspectral illumination design. **2016**, 24, 29380-29405		3
1169	ROAM: A Radial-Basis-Function Optimization Approximation Method for Diagnosing the Three-Dimensional Coronal Magnetic Field. **2016**, 3,		10
1168	Bayesian Optimization with Dimension Scheduling: Application to Biological Systems. **2016**, 38, 1051-1056		12
1167	Kriging Surrogate Models for Predicting the Complex Eigenvalues of Mechanical Systems Subjected to Friction-Induced Vibration. **2016**, 2016, 1-22		11

| 1166 | Meta-models in Computer Experiments: Kriging versus Artificial Neural Networks. **2016**, 32, 2055-2065 | 12 |

| 1165 | Multi-fidelity modeling and optimization of biogas plants. **2016**, 48, 13-28 | 11 |

| 1164 | A Tutorial on Latin Hypercube Design of Experiments. **2016**, 32, 1975-1985 | 51 |

| 1163 | Multi-objective constrained black-box optimization using radial basis function surrogates. **2016**, 16, 140-155 | 22 |

| 1162 | Approximation based curvilinear local search for optimization problems. **2016**, 33, | |

| 1161 | Using Bayesian optimization to guide probing of a flexible environment for simultaneous registration and stiffness mapping. **2016**, | 17 |

| 1160 | Sequential Subspace Reliability Method with Univariate Revolving Integration. **2016**, 54, 2160-2170 | 5 |

| 1159 | Uncertainty quantification in reliability estimation with limit state surrogates. **2016**, 54, 1509-1526 | 17 |

| 1158 | Improvement of efficient global optimization with application to aircraft wing design. **2016**, | 9 |

| 1157 | Multi-Fidelity Design Optimization via Low-Fidelity Correction Technique. **2016**, | 1 |

| 1156 | Sequential Robust Design of a Ram Air Turbine. **2016**, | 1 |

| 1155 | Kriging meta-model assisted calibration of computational fluid dynamics models. **2016**, 62, 4308-4320 | 16 |

| 1154 | Stochastic Simulators Based Optimization by Gaussian Process Metamodels ⬜Application to Maintenance Investments Planning Issues. **2016**, 32, 2067-2080 | 9 |

| 1153 | Bayesian Optimization of Spiking Neural Network Parameters to Solving the Time Series Classification Task. **2016**, 39-45 | 2 |

| 1152 | Constraint back-offs for safe, sufficient excitation: A general theory with application to experimental optimization. **2016**, 93, 353-360 | 1 |

| 1151 | Inverse Design of Metal Nanoparticles⬜Morphology. **2016**, 3, 68-78 | 29 |

| 1150 | Surrogate-based optimization of cordon toll levels in congested traffic networks. **2016**, 50, 1008-1033 | 13 |

| 1149 | . **2016**, 33, 16-27 | |

1148	CFD simulations of the flow control performance applied for inlet of low drag high-bypass turbofan engine at cross flow regimes. **2016**,	
1147	Truncated expected hypervolume improvement: Exact computation and application. **2016**,	5
1146	Perspective: Codesign for materials science: An optimal learning approach. **2016**, 4, 053501	16
1145	Synthesis of next generation reflectarrays. **2016**,	0
1144	Multi-objective optimization of coronary stent using Kriging surrogate model. **2016**, 15, 148	12
1143	Evolutionary algorithm using progressive Kriging model and dynamic reliable region for expensive optimization problems. **2016**,	
1142	Reduction of Epistemic Model Uncertainty in Simulation-Based Multidisciplinary Design. **2016**, 138,	13
1141	Study of the approximation of the fitness landscape and the ranking process of scalarizing functions for many-objective problems. **2016**,	2
1140	Reliability Analysis With Monte Carlo Simulation and Dependent Kriging Predictions. **2016**, 138,	66
1139	A Generative Kriging Surrogate Model for Constrained and Unconstrained Multi-objective Optimization. **2016**,	18
1138	A multi-objective batch infill strategy for efficient global optimization. **2016**,	3
1137	Automated Optimal Architecture of Deep Convolutional Neural Networks for Image Recognition. **2016**,	5
1136	A weighted heteroscedastic Gaussian process modeling via particle swarm optimization. **2016**,	2
1135	Multi-objective parameter configuration of machine learning algorithms using model-based optimization. **2016**,	13
1134	Propagation of Modeling Uncertainty by Polynomial Chaos Expansion in Multidisciplinary Analysis. **2016**, 138,	9
1133	High dimensional model representation for solving expensive multi-objective optimization problems. **2016**,	7
1132	Black-box expensive multiobjective optimization with adaptive in-fill rules. **2016**,	0
1131	Principled Evolutionary Algorithm search operator design and the kernel trick. **2016**,	2

| 1130 | A study on the effectiveness of constraint handling schemes within Efficient Global Optimization framework. **2016**, | 3 |

| 1129 | A framework for evaluating meta-models for simulation-based optimisation. **2016**, | 1 |

| 1128 | Small data driven evolutionary multi-objective optimization of fused magnesium furnaces. **2016**, | 2 |

| 1127 | Time-series optimization methodology and knowledge discovery of descend trajectory for civil aircraft. **2016**, | 1 |

| 1126 | Research on Metamodel-Based Global Design Optimization and Data Mining Methods. **2016**, 138, | 16 |

| 1125 | Optimisation of GaN LEDs and the reduction of efficiency droop using active machine learning. **2016**, 6, 24862 | 32 |

| 1124 | Preference-based multiobjective optimization using truncated expected hypervolume improvement. **2016**, | 7 |

| 1123 | EcoRacer: Game-Based Optimal Electric Vehicle Design and Driver Control Using Human Players. **2016**, 138, | 19 |

| 1122 | FEREBUS: Highly parallelized engine for kriging training. **2016**, 37, 2606-16 | 12 |

| 1121 | Surrogate model based optimization of unbalanced three-phase distribution systemfor power loss reduction and voltage profile improvement. **2016**, | |

| 1120 | Multi-fidelity Adaptive global metamodel of expensive computer simulations. **2016**, | 6 |

| 1119 | Information-theoretic exploration with Bayesian optimization. **2016**, | 33 |

| 1118 | Unscented Bayesian optimization for safe robot grasping. **2016**, | 17 |

| 1117 | Intelligent foresight for UAV routing problems. **2016**, | 1 |

| 1116 | Accelerating the search for global minima on potential energy surfaces using machine learning. **2016**, 145, 154106 | 9 |

| 1115 | Surrogate-based evolutionary optimization for friction stir welding. **2016**, | 1 |

| 1114 | Optimal design and installation of ultra high bypass ratio turbofan nacelle. **2016**, | 8 |

| 1113 | Application of the UCT Algorithm for Noisy Optimization Problems. **2016**, | 1 |

1112	Investigation of strategies for an increasing population size in multi-objective CMA-ES. **2016**,	2
1111	Balancing risk and expected gain in kriging-based global optimization. **2016**,	3
1110	Multi-objective variable subset selection using heterogeneous surrogate modeling and sequential design. **2016**,	
1109	Classifier-assisted optimization. **2016**,	
1108	Elaborated Analysis of Force Model Parameters in Milling Simulations with Respect to Tool State Variations. **2016**, 55, 83-88	4
1107	Numerical optimization of writer and media for bit patterned magnetic recording. **2016**, 120, 013902	6
1106	Adaptive Strategies for Materials Design using Uncertainties. **2016**, 6, 19660	134
1105	Warm starting Bayesian optimization. **2016**,	4
1104	Bayesian optimization for parameter tuning in evolutionary algorithms. **2016**,	7
1103	Reliability Analysis in the Presence of Aleatory and Epistemic Uncertainties, Application to the Prediction of a Launch Vehicle Fallout Zone. **2016**, 138,	11
1102	Multi-objective Co-design for model predictive control with an FPGA. **2016**,	3
1101	Exploiting Diverse Distance Metrics for Surrogate-Based Optimisation of Ordering Problems. **2016**,	3
1100	A Single-Loop Kriging Surrogate Modeling for Time-Dependent Reliability Analysis. **2016**, 138,	143
1099	Extending Expected Improvement for High-Dimensional Stochastic Optimization of Expensive Black-Box Functions. **2016**, 138,	9
1098	Hyperparameter Optimization Machines. **2016**,	3
1097	Centralized self-optimization of interference management in LTE-A HetNets. 363-392	
1096	Efficient infill sampling for unconstrained robust optimization problems. **2016**, 48, 1313-1332	3
1095	A surrogate-assisted evolution strategy for constrained multi-objective optimization. **2016**, 57, 270-284	49

1094	Computer Emulation with Nonstationary Gaussian Processes. **2016**, 4, 26-47		5
1093	Parallel surrogate-assisted global optimization with expensive functions a survey. **2016**, 54, 3-13		142
1092	Bayesian Optimization via Simulation with Pairwise Sampling and Correlated Prior Beliefs. **2016**, 64, 542-559		18
1091	Reducing service stress of the injection-molded polycarbonate window by optimizing mold construction and product structure. **2016**, 86, 1691-1704		18
1090	Investigation on parallel algorithms in efficient global optimization based on multiple points infill criterion and domain decomposition. **2016**, 54, 747-773		20
1089	Large scale optimization of a sour water stripping plant using surrogate models. **2016**, 92, 143-162		21
1088	Multipolar Electrostatic Energy Prediction for all 20 Natural Amino Acids Using Kriging Machine Learning. **2016**, 12, 2742-51		20
1087	Efficient global optimization of reservoir geomechanical parameters based on synthetic aperture radar-derived ground displacements. **2016**, 81, M23-M33		10
1086	Multiobjective optimization of expensive-to-evaluate deterministic computer simulator models. **2016**, 94, 250-264		39
1085	Fundamentals of Numerical Optimization. **2016**, 15-29		
1084	Model inversion via multi-fidelity Bayesian optimization: a new paradigm for parameter estimation in haemodynamics, and beyond. **2016**, 13,		49
1083	A hybrid swarm-based algorithm for single-objective optimization problems involving high-cost analyses. **2016**, 10, 99-121		6
1082	Bi-direction multi-surrogate surrogate assisted global optimization. **2016**, 33,		5
1081	Drawing Inspiration From Human Design Teams for Better Search and Optimization: The Heterogeneous Simulated Annealing Teams Algorithm. **2016**, 138,		11
1080	A new expected-improvement algorithm for continuous minimax optimization. *Journal of Global Optimization*, **2016**, 64, 785-802	1.5	13
1079	MISO: mixed-integer surrogate optimization framework. **2016**, 17, 177-203		46
1078	Portfolio optimization through Kriging methods. **2016**, 48, 4894-4905		5
1077	Development of an Adaptive Experimental Design Method Based on Probability of Achieving a Target Range through Parallel Experiments. **2016**, 55, 5726-5735		2

1076	Two-level Multi-surrogate Assisted Optimization method for high dimensional nonlinear problems. **2016**, 46, 26-36	23
1075	Suspended mid-infrared fiber-to-chip grating couplers for SiGe waveguides. **2016**,	4
1074	GTApprox: Surrogate modeling for industrial design. **2016**, 102, 29-39	33
1073	A framework for parameter estimation and model selection in kernel deep stacking networks. **2016**, 70, 31-40	5
1072	Adaptive classification under computational budget constraints using sequential data gathering. **2016**, 99, 137-146	15
1071	Development of multiobjective trajectory-optimization method and its application to improve aircraft landing. **2016**, 58, 166-177	2
1070	Multi-fidelity meta-modeling for reservoir engineering - application to history matching. **2016**, 20, 1231-1250	7
1069	Quantile-based optimization under uncertainties using adaptive Kriging surrogate models. **2016**, 54, 1403-1421	51
1068	Multienterprise supply chain: Simulation and optimization. **2016**, 62, 3392-3403	9
1067	Kriging of financial term-structures. **2016**, 255, 631-648	23
1066	Fast Model Based Optimization of Tone Onset Detection by Instance Sampling. **2016**, 461-472	
1065	Model-based optimization of High Level Synthesis directives. **2016**,	11
1064	Quantifying Uncertainties on Excursion Sets Under a Gaussian Random Field Prior. **2016**, 4, 850-874	23
1063	Two-Stage Transfer Surrogate Model for Automatic Hyperparameter Optimization. **2016**, 199-214	6
1062	Scalable Hyperparameter Optimization with Products of Gaussian Process Experts. **2016**, 33-48	4
1061	Active wavelength selection for mixture identification with tunable mid-infrared detectors. **2016**, 937, 11-20	0
1060	Systematic approach for the life cycle multi-objective optimization of buildings combining objective reduction and surrogate modeling. **2016**, 130, 506-518	35
1059	Dynamic system classifier. **2016**, 94, 012132	4

1058	Evaluation of Empirical Design Studies and Metrics. **2016**, 13-39	6
1057	Full-wave optimization of large Compact Antenna Test Ranges. **2016**,	1
1056	Kriging-assisted design optimization of S-shape supersonic compressor cascades. **2016**, 58, 275-297	29
1055	Fast design of next generation reflectarrays through advanced LBE strategies. **2016**,	0
1054	Incorporation of local structure into kriging models for the prediction of atomistic properties in the water decamer. **2016**, 37, 2409-22	12
1053	Simulation Optimisation. **2016**,	
1052	A fast uncertainty analysis for material nonlinear problems based on reanalysis and semi-analytic strategy. **2016**, 102, 1-13	3
1051	Topics in Evolutinary Algorithms. **2016**, 121-152	
1050	A MATLAB Toolbox for Surrogate-Assisted Multi-Objective Optimization. **2016**,	
1049	Numerical Optimization of Plate Lines Design for Enhanced Wake Vortex Decay (Invited). **2016**,	2
1048	Towards a new Praxis in optinformatics targeting knowledge re-use in evolutionary computation: simultaneous problem learning and optimization. **2016**, 9, 203-220	15
1047	Time-based reflow soldering optimization by using adaptive Kriging-HDMR method. **2016**, 28, 101-113	10
1046	On the Convergence Rates of Expected Improvement Methods. **2016**, 64, 1515-1528	34
1045	Application of the Meta-Multiparametric methodology to the control of emissions in the industry under continuous and discrete uncertain parameters. **2016**, 115, 365-373	4
1044	Engineering Design Exploration Using Locally Optimized Covariance Kriging. **2016**, 54, 3160-3175	21
1043	Adaptive modeling and sampling methodologies for Internet of Things applications. **2016**,	
1042	Building Power Consumption Models from Executable Timed I/O Automata Specifications. **2016**,	3
1041	Bayesian design of experiments for generalized linear models and dimensional analysis with industrial and scientific application. **2016**, 0-0	2

1022	Improving kriging surrogates of high-dimensional design models by Partial Least Squares dimension reduction. **2016**, 53, 935-952		84
1021	Bayesian optimization for learning gaits under uncertainty. **2016**, 76, 5-23		98
1020	Variable-fidelity modeling of structural analysis of assemblies. *Journal of Global Optimization*, **2016**, 64, 577-613	1.5	20
1019	SOP: parallel surrogate global optimization with Pareto center selection for computationally expensive single objective problems. *Journal of Global Optimization*, **2016**, 66, 417-437	1.5	22
1018	Polarizable multipolar electrostatics for cholesterol. **2016**, 659, 10-15		8
1017	Calibrating Multi-Point Geostatistical Models Using Pressure Transient Data. **2016**,		1
1016	Realizing parameterless automatic classification of remote sensing imagery using ontology engineering and cyberinfrastructure techniques. **2016**, 94, 56-67		9
1015	COMBO: An efficient Bayesian optimization library for materials science. **2016**, 4, 18-21		158
1014	Hybrid Meta-Model Based Design Space Differentiation Method for Expensive Problems. **2016**, 29, 120-132		3
1013	A sequential sampling strategy to improve the global fidelity of metamodels in multi-level system design. **2016**, 53, 1295-1313		22
1012	A decomposition method for surrogate models of large scale structures. **2016**, 21, 325-333		2
1011	Geostatistical Evaluation of Spatial Variation Related to Groundwater Quality Database: Case Study for Arak Plain Aquifer, Iran. **2016**, 21, 707-719		11
1010	Numerical hybrid Taguchi-random coordinate search algorithm for path synthesis. **2016**, 102, 203-216		14
1009	An alternative adaptive differential evolutionary Algorithm assisted by Expected Improvement criterion and cut-HDMR expansion and its application in time-based sheet forming design. **2016**, 97, 96-107		21
1008	Gaussian processes with built-in dimensionality reduction: Applications to high-dimensional uncertainty propagation. **2016**, 321, 191-223		75
1007	New strategy for designing composite rotor blades with active flaps. **2016**, 27, 1176-1188		3
1006	A Sequential Kriging reliability analysis method with characteristics of adaptive sampling regions and parallelizability. **2016**, 153, 170-179		92
1005	Global sensitivity analysis using a Gaussian Radial Basis Function metamodel. **2016**, 154, 171-179		35

986	Using Multiple Information Sources to Construct Stochastic Databases to Quantify Uncertainty in Certification Maneuvers. **2016**,	1
985	Multi-round Surrogate-based Optimization for Benchmark Aerodynamic Design Problems. **2016**,	12
984	An EGO-like Optimization Framework for Simultaneous Aircraft Design and Airline Allocation. **2016**,	7
983	Lightweight design of automotive composite bumper system using modified particle swarm optimizer. **2016**, 140, 630-643	76
982	Performance measures based optimization of supply chain network resilience: A NSGA-II + Co-Kriging approach. **2016**, 93, 205-214	36
981	Isothermal Combustor Prediffuser and Fuel Injector Feed Arm Design Optimization Using the prometheus Design System. **2016**, 138,	4
980	Numerical / Experimental Investigation of Airfoil Shape for Small VAWT. **2016**,	3
979	Multi-objective optimisation of stent dilation strategy in a patient-specific coronary artery via computational and surrogate modelling. **2016**, 49, 205-15	8
978	A local Kriging approximation method using MPP for reliability-based design optimization. **2016**, 162, 102-115	78
977	Multiple-optima search method based on a metamodel and mathematical morphology. **2016**, 48, 437-453	2
976	Simulation optimization: a review of algorithms and applications. **2016**, 240, 351-380	195
975	Bayes linear analysis for Bayesian optimal experimental design. **2016**, 171, 115-129	13
974	Identification of material properties using nanoindentation and surrogate modeling. **2016**, 81, 151-159	16
973	A multi-scale approach for the discovery of zeolites for hydrogen sulfide removal. **2016**, 91, 206-218	19
972	An enhanced RBF-HDMR integrated with an adaptive sampling method for approximating high dimensional problems in engineering design. **2016**, 53, 1209-1229	32
971	Determination of the extended DruckerPrager parameters using the surrogate-based optimization method for polypropylene nanocomposites. **2016**, 51, 220-232	5
970	A Kriging-based non-probability interval optimization of loading path in T-shape tube hydroforming. **2016**, 85, 1615-1631	10
969	A Perspective on Materials Informatics: State-of-the-Art and Challenges. **2016**, 3-12	13

950	Global optimization advances in Mixed-Integer Nonlinear Programming, MINLP, and Constrained Derivative-Free Optimization, CDFO. **2016**, 252, 701-727		126
949	Multifidelity Optimization for High-Lift Airfoils. **2016**,		4
948	Taking the Human Out of the Loop: A Review of Bayesian Optimization. **2016**, 104, 148-175		1378
947	Which algorithm should I choose: An evolutionary algorithm portfolio approach. **2016**, 40, 654-673		24
946	Monitoring wafers geometric quality using an additive Gaussian process model. **2016**, 48, 1-15		26
945	A study into the potential of GPUs for the efficient construction and evaluation of Kriging models. **2016**, 32, 377-404		8
944	Trust regions in Kriging-based optimization with expected improvement. **2016**, 48, 1037-1059		24
943	Analysis of multi-objective Kriging-based methods for constrained global optimization. **2016**, 63, 903-926		35
942	Stochastic model updating utilizing Bayesian approach and Gaussian process model. **2016**, 70-71, 245-268		60
941	Integration optimization of molding and service for injection-molded product. **2016**, 84, 2019-2028		5
940	Robust design optimization for improving automotive shift quality. **2016**, 17, 421-436		7
939	The Role of Computational Intelligence in Experimental Design: A Literature Review. **2016**, 213-235		1
938	A deterministic sequential maximin Latin hypercube design method using successive local enumeration for metamodel-based optimization. **2016**, 48, 1019-1036		13
937	Irregular polyomino tiling via integer programming with application in phased array antenna design. *Journal of Global Optimization*, **2016**, 65, 137-173	1.5	16
936	Adaptive Sampling Strategies for Surrogate-Based Aerodynamic Optimization. **2016**, 25-46		1
935	Kriging-based infill sampling criterion for constraint handling in multi-objective optimization. *Journal of Global Optimization*, **2016**, 64, 97-115	1.5	21
934	Bayesian Additive Regression Tree Calibration of Complex High-Dimensional Computer Models. **2016**, 58, 166-179		11
933	Sequential design for response surface model fit in computer experiments using derivative information. **2017**, 46, 1148-1155		2

932	Adaptive multi-point sequential sampling methodology for high-dimensional and highly nonlinear crashworthiness optimization problems. **2017**, 231, 1816-1825		1
931	Integrated Optimal Design of a Smart Microgrid With Storage. **2017**, 8, 1762-1770		23
930	Optimization of Multi-Fidelity Computer Experiments via the EQIE Criterion. **2017**, 59, 58-68		8
929	Evolutionary computing in recommender systems: a review of recent research. **2017**, 16, 441-462		17
928	Dynamic algorithm selection for pareto optimal set approximation. *Journal of Global Optimization*, **2017**, 67, 263-282	1.5	2
927	Empirical decision model learning. **2017**, 244, 343-367		38
926	Maximum Likelihood Estimation for Stochastic Differential Equations Using Sequential Gaussian-Process-Based Optimization. **2017**, 59, 178-188		4
925	Auction optimization using regression trees and linear models as integer programs. **2017**, 244, 368-395		19
924	Topology optimization of fluid problems using genetic algorithm assisted by the Kriging model. **2017**, 109, 514-532		24
923	Constrained global optimization via a DIRECT-type constraint-handling technique and an adaptive metamodeling strategy. **2017**, 55, 155-177		27
922	Surrogate-based methods for black-box optimization. **2017**, 24, 393-424		62
921	A frequentist approach to computer model calibration. **2017**, 79, 635-648		34
920	Rare Event Estimation Using Polynomial-Chaos Kriging. **2017**, 3,		67
919	ParEGO extensions for multi-objective optimization of expensive evaluation functions. *Journal of Global Optimization*, **2017**, 67, 79-96	1.5	11
918	Global optimization test problems based on random field composition. **2017**, 11, 699-713		5
917	An efficient multi-objective PSO algorithm assisted by Kriging metamodel for expensive black-box problems. *Journal of Global Optimization*, **2017**, 67, 399-423	1.5	9
916	Reduction in the aerodynamic drag around a generic vehicle by using a non-smooth surface. **2017**, 231, 130-144		18
915	Computation of the output of a function with fuzzy inputs based on a low-rank tensor approximation. **2017**, 310, 74-89		5

914	A Bayesian approach to constrained single- and multi-objective optimization. *Journal of Global Optimization*, **2017**, 67, 97-133	1.5	53
913	Global optimization of general constrained grey-box models: new method and its application to constrained PDEs for pressure swing adsorption. *Journal of Global Optimization*, **2017**, 67, 3-42	1.5	65
912	ARGONAUT: AlgoRithms for Global Optimization of coNstrAined grey-box compUTational problems. **2017**, 11, 895-913		74
911	Sequential Designs Based on Bayesian Uncertainty Quantification in Sparse Representation Surrogate Modeling. **2017**, 59, 139-152		6
910	An adaptive surrogate model based on support vector regression and its application to the optimization of railway wind barriers. **2017**, 55, 701-713		33
909	Bayesian kriging modeling for spatiotemporal prediction in squeeze casting. **2017**, 89, 355-369		6
908	A novel feasibility analysis method for black-box processes using a radial basis function adaptive sampling approach. **2017**, 63, 532-550		38
907	Sensitivity-guided decision-making for wind farm micro-siting. **2017**, 83, 52-72		4
906	Necessary and Sufficient Conditions for Surrogate Functions of Pareto Frontiers and Their Synthesis Using Gaussian Processes. **2017**, 21, 1-13		6
905	SOMS: SurrOgate MultiStart algorithm for use with nonlinear programming for global optimization. **2017**, 24, 1139-1172		6
904	Bayesian Low-Fidelity Correction Approach to Multi-Fidelity Aerospace Design. **2017**,		8
903	Similarity Maximization of a Scaled Aeroelastic Flight Demonstrator via Multidisciplinary Optimization. **2017**,		3
902	Computational efficiency and accuracy of multi-step design optimization method for variable stiffness composite structures. **2017**, 113, 136-143		29
901	SADEA-II: A generalized method for efficient global optimization of antenna design. **2017**, 4, 86-97		21
900	Pseudo expected improvement criterion for parallel EGO algorithm. *Journal of Global Optimization*, **2017**, 68, 641-662	1.5	41
899	Uncertainty Aggregation in Reliability Analysis. **2017**,		1
898	Non-Deterministic Kriging Framework for Responses with Mixed Uncertainty. **2017**,		3
897	Closed loop geometry based optimization by integrating subdivision, reanalysis and metaheuristic searching techniques. **2017**, 182, 459-474		8

| 896 | Comparison of Kriging-based algorithms for simulation optimization with heterogeneous noise. **2017**, 261, 279-301 | 43 |

| 895 | Structural reliability analysis under evidence theory using the active learning kriging model. **2017**, 49, 1922-1938 | 20 |

| 894 | Metamodeling for high dimensional design problems by multi-fidelity simulations. **2017**, 56, 151-166 | 32 |

| 893 | Variable stiffness composite material design by using support vector regression assisted efficient global optimization method. **2017**, 56, 203-219 | 25 |

| 892 | Multiobjective Bayesian Optimization for Active Load Modulation in a Broadband 20-W GaN Doherty Power Amplifier Design. **2017**, 65, 860-871 | 39 |

| 891 | A Multi-Objective Multi-Fidelity framework for global optimization. **2017**, | 2 |

| 890 | Part II: Winglet Design and Optimization for a Low-speed Subsonic UAV Wing. **2017**, | |

| 889 | Efficient optimization procedure in non-linear fluid-structure interaction problem: Application to mainsail trimming in upwind conditions. **2017**, 69, 209-231 | 7 |

| 888 | A liquid metal-based structurally embedded vascular antenna: II. Multiobjective and parameterized design exploration. **2017**, 26, 025002 | 7 |

| 887 | A Mixed Integer Efficient Global Optimization Algorithm for the Simultaneous Aircraft Allocation-Mission-Design Problem. **2017**, | 12 |

| 886 | Variable Fidelity Optimization of Film Cooling Hole Arrangement Considering Internal Cooling Effects. **2017**, | |

| 885 | A Batch Infill Strategy for Computationally Expensive Optimization Problems. **2017**, 74-85 | 1 |

| 884 | Calibration experimental design considering field response and model uncertainty. **2017**, 318, 92-119 | 31 |

| 883 | Towards Adaptive Training of Agent-Based Sparring Partners for Fighter Pilots. **2017**, | 4 |

| 882 | Gaussian Processes for history-matching: application to an unconventional gas reservoir. **2017**, 21, 267-287 | 17 |

| 881 | Expected improvement based infill sampling for global robust optimization of constrained problems. **2017**, 18, 723-753 | 17 |

| 880 | Classifying Metamodeling Methods for Evolutionary Multi-objective Optimization: First Results. **2017**, 160-175 | 10 |

| 879 | First Investigations on Noisy Model-Based Multi-objective Optimization. **2017**, 298-313 | 5 |

| 878 | Bayesian History-Matching and Probabilistic Forecasting for Tight and Shale Wells. **2017**, | 8 |

| 877 | Global Optimization of Microwave Filters Based on a Surrogate Model-Assisted Evolutionary Algorithm. **2017**, 65, 1976-1985 | 58 |

| 876 | FFLUX: Transferability of polarizable machine-learned electrostatics in peptide chains. **2017**, 38, 1005-1014 | 9 |

| 875 | On the use of surrogate-based modeling for the numerical analysis of Low Impact Development techniques. **2017**, 548, 263-277 | 46 |

| 874 | A multi-point sampling method based on kriging for global optimization. **2017**, 56, 71-88 | 18 |

| 873 | Surrogate-assisted multicriteria optimization: Complexities, prospective solutions, and business case. **2017**, 24, 5-24 | 42 |

| 872 | Piecewise point classification for uncertainty propagation with nonlinear limit states. **2017**, 56, 285-296 | 1 |

| 871 | Adaptive Surrogate-Based Optimization of Vortex Generators for Tiltrotor Geometry. **2017**, 54, 1011-1024 | 12 |

| 870 | Utility-Guided Palpation for Locating Tissue Abnormalities. **2017**, 2, 864-871 | 11 |

| 869 | GOSAC: global optimization with surrogate approximation of constraints. *Journal of Global Optimization*, **2017**, 69, 117-136 | 1.5 | 21 |

| 868 | Adaptive multiple importance sampling for Gaussian processes. **2017**, 87, 1644-1665 | 3 |

| 867 | On the Geometrical Accuracy of High Aspect Ratio Micromilled Pins. **2017**, 139, | 3 |

| 866 | Finding Optimal Performance Indices of Synchronous AC Motors. **2017**, 53, 1-4 | 5 |

| 865 | Model-based methods for continuous and discrete global optimization. **2017**, 55, 154-167 | 79 |

| 864 | Accelerated Adaptive Surrogate-Based Optimization Through Reduced-Order Modeling. **2017**, 55, 1681-1694 | 5 |

| 863 | A Sample-Efficient Black-Box Optimizer to Train Policies for Human-in-the-Loop Systems With User Preferences. **2017**, 2, 993-1000 | 13 |

| 862 | Design and Optimization of Nonlinear Observers for Road Curvature and State Estimation in Automated Vehicles. **2017**, 18, 3315-3327 | 9 |

| 861 | Hybrid metamodel-based design space management method for expensive problems. **2017**, 49, 1573-1588 | 9 |

860	Expected Improvement of Penalty-Based Boundary Intersection for Expensive Multiobjective Optimization. **2017**, 21, 898-913		29
859	Virtual Flight Simulation using Computational Fluid Dynamics. **2017**, 495-546		
858	A Kriging-assisted multiobjective evolutionary algorithm. **2017**, 58, 155-175		15
857	Multifidelity surrogate modeling based on radial basis functions. **2017**, 56, 1061-1075		32
856	A system-by-design approach for efficient multiband patch antennas design. **2017**,		0
855	Expected Improvement Matrix-Based Infill Criteria for Expensive Multiobjective Optimization. **2017**, 21, 956-975		51
854	An adaptive kriging method for solving nonlinear inverse statistical problems. **2017**, 28, e2439		5
853	Structural reliability analysis for p-boxes using multi-level meta-models. **2017**, 48, 27-38		58
852	Adaptive Radial-Basis-Function-Based Multifidelity Metamodeling for Expensive Black-Box Problems. **2017**, 55, 2424-2436		26
851	Global optimization of benchmark aerodynamic cases using physics-based surrogate models. **2017**, 67, 273-286		25
850	Myopic Allocation Policy With Asymptotically Optimal Sampling Rate. **2017**, 62, 2041-2047		17
849	Kriging surrogate model with coordinate transformation based on likelihood and gradient. *Journal of Global Optimization*, **2017**, 68, 827-849	1.5	14
848	Pareto surface construction for multi-objective optimization under uncertainty. **2017**, 55, 1865-1882		7
847	Sheet metal forming optimization by using surrogate modeling techniques. **2017**, 30, 22-36		22
846	A computational study of auditory models in music recognition tasks for normal-hearing and hearing-impaired listeners. **2017**, 2017,		4
845	Multi-objective Geometry Optimization of a Gas Cyclone Using Triple-Fidelity Co-Kriging Surrogate Models. **2017**, 175, 172-193		12
844	Advanced learning-based approaches for reflectarrays design. **2017**,		5
843	Research of multi-point infill criteria based on multi-objective optimization front and its application on aerodynamic shape optimization. **2017**, 9, 168781401770334		1

| 842 | An adaptive sampling approach for Kriging metamodeling by maximizing expected prediction error. **2017**, 106, 171-182 | 50 |

| 841 | Using numerical plant models and phenotypic correlation space to design achievable ideotypes. **2017**, 40, 1926-1939 | 28 |

| 840 | Alternative Kriging-HDMR optimization method with expected improvement sampling strategy. **2017**, 34, 1807-1828 | 12 |

| 839 | Designing High Dielectric Permittivity Material in Barium Titanate. **2017**, 121, 13106-13113 | 33 |

| 838 | Design of computer experiments: A review. **2017**, 106, 71-95 | 132 |

| 837 | Sparse polynomial chaos expansions of frequency response functions using stochastic frequency transformation. **2017**, 48, 39-58 | 40 |

| 836 | Numerical Optimization of Plate-Line Design for Enhanced Wake-Vortex Decay. **2017**, 54, 995-1010 | 7 |

| 835 | Surrogate assisted multidisciplinary design optimization for an all-electric GEO satellite. **2017**, 138, 301-317 | 20 |

| 834 | Gaussian Process Emulators for Computer Experiments with Inequality Constraints. **2017**, 49, 557-582 | 16 |

| 833 | Design optimization of stent and its dilatation balloon using kriging surrogate model. **2017**, 16, 13 | 24 |

| 832 | Complete offline tuning of the unscented Kalman filter. **2017**, 80, 54-61 | 23 |

| 831 | Sequential design strategies for mean response surface metamodeling via stochastic kriging with adaptive exploration and exploitation. **2017**, 262, 575-585 | 15 |

| 830 | Shape optimization of blended-wing-body underwater glider by using gliding range as the optimization target. **2017**, 9, 693-704 | 27 |

| 829 | A new unbiased metamodel method for efficient reliability analysis. **2017**, 67, 1-10 | 21 |

| 828 | Parameter estimation of complex mixed models based on meta-model approach. **2017**, 27, 1111-1128 | 1 |

| 827 | Performance based multidisciplinary design optimization of morphing aircraft. **2017**, 67, 1-12 | 26 |

| 826 | Linear programming-based directed local search for expensive multi-objective optimization problems: Application to drinking water production plants. **2017**, 262, 322-334 | 11 |

| 825 | Surrogate-Based MOEA/D for Electric Motor Design With Scarce Function Evaluations. **2017**, 53, 1-4 | 12 |

824	Adaptive efficient global optimization of systems with independent components. **2017**, 55, 1143-1157		1
823	A Kriging and Stochastic Collocation ensemble for uncertainty quantification in engineering applications. **2017**, 33, 935-949		8
822	Kriging-Based Design of Experiments for Multi-Source ExposureResponse Studies in Nanotoxicology. **2017**, 5, 3223-3232		1
821	MILP models for the selection of a small set of well-distributed points. **2017**, 45, 46-52		4
820	Estimating gasoline performance in internal combustion engines with simulation metamodels. **2017**, 193, 230-240		4
819	Multi-objective global optimization (MOGO): Algorithm and case study in gradient elution chromatography. **2017**, 12, 1600613		5
818	. **2017**, 33, 468-483		15
817	Meta-modelling in chemical process system engineering. **2017**, 73, 135-145		21
816	Global optimization of non-convex piecewise linear regression splines. *Journal of Global Optimization*, **2017**, 68, 563-586	1.5	6
815	Toward amino acid typing for proteins in FFLUX. **2017**, 38, 336-345		11
814	Global optimization method using adaptive and parallel ensemble of surrogates for engineering design optimization. **2017**, 66, 1135-1155		9
813	Kriging-based optimization design for a new style shell with black box constraints. **2017**, 11, 234-245		3
812	Inference in a Partial Differential Equations Model of Pulmonary Arterial and Venous Blood Circulation Using Statistical Emulation. **2017**, 184-198		4
811	Gradient-Enhanced Hierarchical Kriging Model for Aerodynamic Design Optimization. **2017**, 30, 04017072		2
810	Overview of surrogate-model versions of covariance matrix adaptation evolution strategy. **2017**,		4
809	Estimation of the Pareto front in stochastic simulation through stochastic Kriging. **2017**, 79, 69-86		11
808	A simultaneous calibration and parameter ranking method for building energy models. **2017**, 206, 657-666		40
807	A Novel Bayesian Optimization Framework for Computationally Expensive Optimization Problem in Tight Oil Reservoirs. **2017**,		2

806	Real-time control using Bayesian optimization: A case study in airborne wind energy systems. **2017**, 69, 131-140	10
805	A Multifractal-Guided Multilevel Surrogate Model-Based Evolutionary Algorithm for Expensive Multiobjective Problems. **2017**, 26, 1750109	1
804	Application of an Algorithmically Differentiated Turbomachinery Flow Solver to the Optimization of a Fan Stage. **2017**,	5
803	A Surrogate-Based Multi-Disciplinary Design Optimization Framework Exploiting Wing-Propeller Interaction. **2017**,	9
802	Adaptive Sampling with Adaptive Surrogate Model Selection for Computer Experiment Applications. **2017**,	2
801	Alternative infill strategies for expensive multi-objective optimisation. **2017**,	12
800	A new genetic algorithm based on prenatal genetic screening (PGS-GA) and its application in an automated process flowsheet synthesis problem for a membrane based carbon capture case-study. **2017**, 128, 265-289	2
799	Uncertainty in Modeling and Simulation. **2017**, 75-86	
798	Optimal Design of Nonlinear Multimaterial Structures for Crashworthiness Using Cluster Analysis. **2017**, 139,	7
797	Aeroelastic Shape and Sizing Optimization of Aircraft Products supported by AGILE Design Paradigm. **2017**,	3
796	Poisson Disk Sampling on the Grassmannnian: Applications in Subspace Optimization. **2017**,	
795	Learning an Optimization Algorithm Through Human Design Iterations. **2017**, 139,	12
794	Bayesian Belief Models in Simulation-Based Decision-Making. **2017**, 181-217	2
793	Design and Analysis of Simulation Experiments: Tutorial. **2017**, 135-158	14
792	A Novel Surrogate-Based Optimization Method for Black-Box Simulation with Heteroscedastic Noise. **2017**, 56, 10720-10732	11
791	Metamodel-based design optimization employing a novel sequential sampling strategy. **2017**, 34, 2547-2564	10
790	Simulation-based test functions for optimization algorithms. **2017**,	5
789	Study on day-ahead optimal economic operation of active distribution networks based on Kriging model assisted particle swarm optimization with constraint handling techniques. **2017**, 204, 143-162	25

788	Fast cylinder variable-stiffness design by using Kriging-based hybrid aggressive space mapping method. **2017**, 114, 215-226	9
787	Enabling high-dimensional surrogate-assisted optimization by using sliding windows. **2017**,	2
786	Reliability-based and deterministic design optimization of a FSAE brake pedal: a risk allocation analysis. **2017**, 56, 681-695	6
785	Crashworthiness design of a steel‐aluminum hybrid rail using multi-response objective-oriented sequential optimization. **2017**, 112, 192-199	19
784	Statistical metamodeling of dynamic network loading. **2017**, 23, 263-282	11
783	A Multiobjective Optimization Including Results of Life Cycle Assessment in Developing Biorenewables-Based Processes. **2017**, 10, 3632-3643	26
782	Recursive multivariate principal-monotonicity inferential climate downscaling. **2017**, 143, 2780-2796	5
781	High-Lift Devices Topology Robust Optimisation Using Machine Learning Assisted Optimisation. **2021**, 297-313	
780	Bayesian Optimization for Robust Solutions Under Uncertain Input. **2021**, 245-259	1
779	Network Resilience Optimisation of Complex Systems. **2021**, 315-326	
778	Acquisition Functions in Bayesian Optimization. **2021**,	0
777	CHARM: Collaborative Host and Accelerator Resource Management for GPU Datacenters. **2021**,	0
776	Planning Sensing Sequences for Subsurface 3D Tumor Mapping. **2021**,	
775	Global-Oriented Strategy for Searching Ultrastrength Martensitic Stainless Steels. 2100411	1
774	Topology optimisation of friction under-platform dampers using moving morphable components and the efficient global optimization algorithm. **2022**, 65, 1	1
773	Learned Global Optimization for Inverse Scattering Problems - Matching Global Search with Computational Efficiency. **2022**, 1-1	4
772	Properties and Comparison of Some Kriging Sub-model Aggregation Methods. 1	1
771	Bioinspired Patterns from a Generative Design Framework for Size and Topology Optimization. **2022**,	0

770   Navigating kernel selections in kernel-based methods: The issues and possible solutions. **2022**,

769   GlobDesOpt: A Global Optimization Framework for Optimal Robot Manipulator Design. **2022**, 10, 5012-5023   2

768   Machine Learning Analysis of Literature Data on the Water Gas Shift Reaction Toward Extrapolative Prediction of Novel Catalysts.   1

767   Generalized hierarchical expected improvement method based on black-box functions of adaptive search strategy. **2022**, 106, 30-44   0

766   Inverse Bayesian Optimization: Learning Human Acquisition Functions in an Exploration vs Exploitation Search Task. **2022**, -1,

765   Batch sequential adaptive designs for global optimization. 1   1

764   A new localized inverse identification method for high temperature testing under resistive heating: Application to the elastic-viscoplastic behaviour of L-PBF processed In718. e12409   0

763   Automated selection of mid-height intervertebral disc slice in traverse lumbar spine MRI using a combination of deep learning feature and machine learning classifier.. **2022**, 17, e0261659   0

762   Efficient Multi-Objective Shape Optimization Using Dimension Reduction Technology. **2022**,

761   Optimization of fuel formulation using adaptive learning and artificial intelligence. **2022**, 27-45

760   Bayesian optimization for active flow control. 1   2

759   Data-driven approximation of thermodynamic phase equilibria.   1

758   Optimizing Electrocaloric Effect in Barium Titanate-Based Room TemperatureￂFerroelectrics: Combining Landau Theory, Machine Learning and Synthesis.

757   IDEAS (Intelligent Design and Engineering of Aerospace Systems). **2022**,

756   Verification of integrity of deployed deep learning models using Bayesian Optimization. **2022**, 241, 108238   0

755   System and Safety Analysis for Autonomous Center-line Tracking with SYSAI. **2022**,

754   Deep Gaussian Process and Deep Sigma Point Process Applied to Aerodynamic Optimization Problem. **2022**,   0

753   Time-variant reliability analysis using moment-based equivalent Gaussian process and importance sampling. **2022**, 65, 1   1

752	Differential Congestion Pricing Strategies for Heterogeneous Users in the Mixed Traffic Condition. **2022**, 2022, 1-14	
751	Comparison of parallel infill sampling criteria based on Kriging surrogate model.. **2022**, 12, 678	1
750	Numerical Issues in Maximum Likelihood Parameter Estimation for Gaussian Process Interpolation. **2022**, 116-131	1
749	Performance prediction of magnetorheological fluid-based liquid gating membrane by kriging machine learning method. **2022**, 1, 157-169	2
748	Optimally Weighted Ensembles for Efficient Multi-objective Optimization. **2022**, 144-156	0
747	Bi-objective Bayesian optimization of engineering problems with cheap and expensive cost functions. 1	0
746	Active learning for structural reliability: Survey, general framework and benchmark. **2022**, 102174	6
745	Bayesian optimization with partially specified queries. 1	
744	Adaptive Surrogate Models for Uncertainty Quantification with Partially Observed Information. **2022**,	1
743	Surrogate-based stochastic optimization of horizontal-axis wind turbine composite blades. **2022**, 65, 1	0
742	Optimization Method of Overall Parameters of Dual Pulse Missile Based on Surrogate Model. **2022**, 2179, 012003	
741	Safe chance constrained reinforcement learning for batch process control. **2022**, 157, 107630	3
740	Machine Learning Assisted Design of Experiments for Solid State Electrolyte Lithium Aluminum Titanium Phosphate. **2022**, 9,	0
739	Analyzing Stochastic Computer Models: A Review with Opportunities. **2022**, 37,	6
738	Supersonic Forward-Swept Wing Design Using Multifidelity Efficient Global Optimization. 1-14	
737	Multi-objective optimization algorithm assisted by metamodels with applications in aerodynamics problems. **2022**, 117, 108409	1
736	A surrogate-based parallel optimization of analog circuits using multi-acquisition functions. **2022**, 146, 154105	0
735	Chance constrained policy optimization for process control and optimization. **2022**, 111, 35-45	1

734	Framework for embedding black-box simulation into mathematical programming via kriging surrogate model applied to natural gas liquefaction process optimization. **2022**, 310, 118537	2
733	A divide-and-conquer optimization paradigm for waterflooding production optimization. **2022**, 211, 110050	1
732	Spatially-varying impedance model for locally reacting acoustic liners at a high sound intensity. **2022**, 524, 116741	0
731	High-dimensional expensive multi-objective optimization via additive structure. **2022**, 14, 200062	
730	Machine learning based optimization for interval uncertainty propagation. **2022**, 170, 108619	0
729	Reliability and sensitivity analysis of cold-bent curtain wall glass. **2022**, 49, 104116	1
728	Analog Circuit Yield Optimization via Freeze-Thaw Bayesian Optimization Technique. **2022**, 1-1	
727	Multi-objective surrogate model-based optimization of a small aircraft engine air-intake duct. 095441002110708	8
726	Efficient Out-of-Distribution Detection Using Latent Space of β-VAE for Cyber-Physical Systems.	1
725	Sample-efficient parameter exploration of the powder film drying process using experiment-based Bayesian optimization.. **2022**, 12, 1615	1
724	Aseismic Optimization of Mega-sub Controlled Structures Based on Gaussian Process Surrogate Model. 1	2
723	Bayesian Optimisation vs. Input Uncertainty Reduction.	0
722	Posterior temperature optimized Bayesian models for inverse problems in medical imaging.. **2022**, 78, 102382	1
721	Improvement of ultralow reflectance Si solar cells by machine-learning-assisted optimization for diffusion process. **2022**, 31, 103250	
720	Design Rule Extraction Using Multi-Fidelity Surrogate Model for Unmanned Combat Aerial Vehicles. 1-15	2
719	Surrogate-assisted evolutionary optimization of expensive many-objective irregular problems. **2022**, 240, 108197	2
718	Stress evolution in restrained GGBFS concrete due to autogenous deformation: bayesian optimization of aging creep. **2022**, 324, 126690	2
717	A hybrid approach to derive macro- and meso-mechanic cell models for vibrational investigations of lithium-ion pouch cells. **2022**, 49, 104060	1

698	Genetic-Memetic Relational Approach for Scheduling Problems. **2022**, 281-287	
697	Reliable Numerical Models of Nickel-Titanium Stents: How to Deduce the Specific Material Properties from Testing Real Devices.. **2022**, 50, 467	1
696	Cross-Validation--based Adaptive Sampling for Gaussian Process Models. **2022**, 10, 294-316	
695	Geometric design of friction ring dampers in blisks using nonlinear modal analysis and Kriging surrogate model. **2022**, 65, 1	0
694	Intelligent rockburst prediction model with sample category balance using feedforward neural network and Bayesian optimization. **2022**,	3
693	Design of a customized humanoid robot with coevolution of body morphology and its locomotion. 1-20	
692	Improving adaptive seamless designs through Bayesian optimization.. **2022**,	0
691	Active learning structural model updating of a multisensory system based on Kriging method and Bayesian inference.	0
690	Reliability-Based Design Optimization of Structures Considering Uncertainties of Earthquakes Based on Efficient Gaussian Process Regression Metamodeling. **2022**, 11, 81	2
689	Anomaly Detection in Player Performances in Multiplayer Online Battle Arena Games. **2022**,	0
688	A review of the recent progress in battery informatics. **2022**, 8,	4
687	Practical galaxy morphology tools from deep supervised representation learning.	2
686	A bagging-based surrogate-assisted evolutionary algorithm for expensive multi-objective optimization. 1	0
685	OPTIMIZATION OF A TIP APPENDAGE FOR THE CONTROL OF TIP LEAKAGE VORTICES IN AXIAL FLOW FANS. 1-15	
684	Deformation prediction of reservoir landslides based on a Bayesian optimized random forest-combined Kalman filter. **2022**, 81, 1	4
683	A Novel MRI Diagnosis Method for Brain Tumor Classification Based on CNN and Bayesian Optimization.. **2022**, 10,	2
682	Machine intelligence for chemical reaction space.	2
681	Interval uncertainty propagation by a parallel Bayesian global optimization method. **2022**,	0

680	Novel Ensemble Tree Solution for Rockburst Prediction Using Deep Forest. **2022**, 10, 787	4
679	A Survey on Sustainable Surrogate-Based Optimisation. **2022**, 14, 3867	0
678	Metamodel-based metaheuristics in optimal responsive adaptation and recovery of traffic networks. 1-19	0
677	Adaptive Design and Analysis Via Partitioning Trees for Emulation of a Complex Computer Code. 1-12	
676	Realization of the optimal sizing of local hybrid photovoltaic and wind energy systems with load scheduling capacity.	0
675	Toward Vehicle-Level Optimization of Compound Rotorcraft Aerodynamics. **2022**, 60, 1937-1957	2
674	Data-Driven Design and Autonomous Experimentation in Soft and Biological Materials Engineering.. **2022**,	1
673	Towards an efficient validation of dynamical whole-brain models.. **2022**, 12, 4331	1
672	Surrogate-based optimization of a periodic rescheduling algorithm.	
671	Dynamic Line Scan Thermography Parameter Design via Gaussian Process Emulation. **2022**, 15, 102	1
670	Multiobjective Machine Learning-Assisted Discovery of a Novel Cyan-Green Garnet: Ce Phosphors with Excellent Thermal Stability.. **2022**,	5
669	Integrating Recurrent Neural Networks With Data Assimilation for Scalable Data-Driven State Estimation. **2022**, 14,	2
668	Envelope Method for Time- and Space-Dependent Reliability Prediction. **2022**,	1
667	Data-driven automated robotic experiments accelerate discovery of multi-component electrolyte for rechargeable LiO2 batteries. **2022**, 100832	1
666	A Radial Basis Function-Based Optimization Algorithm with Regular Simplex Set Geometry in Ellipsoidal Trust-Regions. **2022**, 2022, 1-21	
665	Surrogate-Based Optimization for Complex Engineering problems. **2022**,	
664	Bayesian Optimization Allowing for Common Random Numbers.	0
663	A hierarchical kriging approach for multi-fidelity optimization of automotive crashworthiness problems. **2022**, 65, 1	2

662   Sequential optimization of the injection molding gate locations using parallel efficient global optimization. 1

661   Multi-Objective Bayesian Optimization of Lithium-Ion Battery Cells.

660   Data-Driven Set Based Concurrent Engineering Method for Multidisciplinary Design Optimization.   0

659   Multifidelity Surrogate Models for Efficient Uncertainty Propagation Analysis in Salars Systems. **2022**, 4,

658   Nonlinear Multi-Fidelity Bayesian Optimization: An Application in the Design of Blast Mitigating Structures.   0

657   Emulation of high-resolution land surface models using sparse Gaussian processes with application to JULES. **2022**, 15, 1913-1929

656   Bayesian optimization for inverse calibration of expensive computer models: A case study for Johnson-Cook model in machining. **2022**, 32, 32-38   0

655   Bayesian optimization for inverse identification of cyclic constitutive law of structural steels from cyclic structural tests. **2022**, 38, 1079-1097   0

654   On the ensemble of surrogate models by minimum screening index. 1-30   1

653   Exploration-oriented sampling strategies for global surrogate modeling: A comparison between one-stage and adaptive methods. **2022**, 60, 101603   0

652   Gaussian process-based prognostics of lithium-ion batteries and design optimization of cathode active materials. **2022**, 528, 231026   4

651   aphBO-2GP-3B: a budgeted asynchronous parallel multi-acquisition functions for constrained Bayesian optimization on high-performing computing architecture. **2022**, 65, 1   3

650   Adaptive Design of Experiments for Automotive Engine Applications using Concurrent Bayesian Optimization. 1-8

649   Phase control of heterogeneous HfxZr(1-x)O2 thin films by machine learning.

648   Experimental surrogate-based design optimization of wing geometry and structure for flapping wing micro air vehicles. **2022**, 123, 107451   1

647   Predicting and Optimizing Multirow Film Cooling with Trenches Using Gated Recurrent Unit Neural Network.   2

646   Disciplinary Proper Orthogonal Decomposition and Interpolation for the resolution of parametrized Multidisciplinary Analysis.   0

645   A data-driven evolutionary algorithm with multi-evolutionary sampling strategy for expensive optimization. **2022**, 242, 108436   0

644	Optimization and comparison of strut-braced and high aspect ratio wing aircraft configurations including flutter analysis with geometric non-linearities. **2022**, 107531	1
643	Entropy-based adaptive design for contour finding and estimating reliability. 1-18	0
642	Uncertainty quantification for initial geometric imperfections of cylindrical shells: A novel bi-stage random field parameter estimation method. **2022**, 107554	2
641	Bayesian optimisation for efficient parameter inference in a cardiac mechanics model of the left ventricle.. **2022**, e3593	0
640	A novel surrogate-model based active learning method for structural reliability analysis. **2022**, 394, 114835	0
639	Optimal information perturbation for traffic congestion mitigation: Gaussian process regression and optimization. **2022**, 138, 103647	0
638	Real-Time optimization as a feedback control problem ⏤A review. **2022**, 161, 107723	0
637	An adaptive surrogate model-based fast planning for swarm safe migration along halo orbit. **2022**, 194, 309-322	3
636	You only design once (YODO): Gaussian Process-Batch Bayesian optimization framework for mixture design of ultra high performance concrete. **2022**, 330, 127270	2
635	Efficient, parallelized global optimization of groundwater pumping in a regional aquifer with land subsidence constraints.. **2022**, 310, 114753	0
634	Cylinder drag minimization through wall actuation: A Bayesian Optimization approach. **2022**, 240, 105370	0
633	Constructing a heat source parameter estimation model for heat conduction finite element analysis using deep convolutional neural network. **2022**, 31, 103387	0
632	Active learning and molecular dynamics simulations to find high melting temperature alloys. **2022**, 209, 111386	3
631	Machine learning combined with feature engineering to search for BaTiO3 based ceramics with large piezoelectric constant. **2022**, 908, 164468	2
630	Nonlinear stochastic dynamics of detuned bladed-disks with uncertain mistuning and detuning optimization using a probabilistic machine learning tool. **2022**, 143, 104023	0
629	A community energy management system for smart microgrids. **2022**, 209, 107959	1
628	Jointly Learned Symbol Detection and Signal Reflection in RIS-Aided Multi-user MIMO Systems. **2021**,	3
627	Surrogate-Based Black-Box Optimization Method for Costly Molecular Properties. **2021**,	0

626   Bayesian Optimization: Model Comparison With Different Benchmark Functions. **2021**,

625   BOhance: Bayesian Optimization for Content Enhancement. **2021**,   0

624   Application of the automatic selection and configuration of clustering algorithms method for the Apache Spark framework. **2021**,

623   HYPPO: A Surrogate-Based Multi-Level Parallelism Tool for Hyperparameter Optimization. **2021**,   0

622   A Unified Offline-Online Learning Paradigm via Simulation for Scenario-Dependent Selection. **2021**,   0

621   Thinking Inside the Box: A Tutorial on Grey-Box Bayesian Optimization. **2021**,   2

620   Partitioning and Gaussian Processes for Accelerating Sampling in Monte Carlo Tree Search for Continuous Decisions. **2021**,

619   Surrogate-based optimization based on the probability of feasibility. **2022**, 65, 1

618   An Adaptive Model Management Strategy: Balancing Exploration and Exploitation. **2021**,

617   Actor-Criticlike Stochastic Adaptive Search for Continuous Simulation Optimization.

616   Active Site Sequence Representations of Human Kinases Outperform Full Sequence Representations for Affinity Prediction and Inhibitor Generation: 3D Effects in a 1D Model.. **2021**,   1

615   TripTracker: Unsupervised Learning of Fishing Vessel Routine Activity Patterns. **2021**,

614   Uncertainty quantification of a computer model for binary black hole formation. **2021**, 15,   2

613   Accelerated Random Search for Black-Box Constraint Satisfaction and Optimization. **2021**,

612   A Gentle Introduction to Bayesian Optimization. **2021**,   1

611   Selection of the Most Probable Best Under Input Uncertainty. **2021**,   0

610   Optimal Conformity Design of Tibial Insert Component Based on ISO Standard Wear Test Using Finite Element Analysis and Surrogate Model. **2021**, 13, 2377   0

609   Machine-Learning Assisted Exploration: Toward the Next-Generation Catalyst for Hydrogen Evolution Reaction. **2021**, 168, 126523   0

608	An adaptive ensemble of surrogate models based on hybrid measure for reliability analysis. **2022**, 65, 1	1
607	Adjusting normalization bounds to improve hypervolume based search for expensive multi-objective optimization. 1	1
606	Formation control method based on artificial potential fields for aircraft flight simulation. 003754972110633	0
605	Data-driven modeling of S -ß excitation energy in the BODIPY chemical space: High-throughput computation, quantum machine learning, and inverse design.. **2021**, 155, 244102	2
604	Safe Real-Time Optimization using Multi-Fidelity Gaussian Processes. **2021**,	
603	Stochastic Bayesian optimization for predicting borderline knock. 146808742110652	1
602	Dynamic Control of Plasmonic Localization by Inverse Optimization of Spatial Phase Modulation. **2022**, 9, 351-359	0
601	Bayesian Optimization Based on Simulation Conditionally to Subvariety. **2022**, 120-132	
600	Bayesian Optimization for Efficient Tuning of Visual Servo and Computed Torque Controllers in a Reinforcement Learning Scenario. **2021**,	
599	An efficient Kriging-based framework for computationally demanding constrained structural optimization problems. **2022**, 65, 1	1
598	A Fast Optimization Algorithm Based on Multi-RBF For High-Dimensional and Computationally Expensive Problems. **2021**,	
597	Bayesian optimization with adaptive surrogate models for automated experimental design. **2021**, 7,	4
596	Forecasting Methods of Battery Charge and Discharge Current Profile for LEO Satellites. **2021**, 10, 2999	1
595	Rapid design of secondary deformation-aging parameters for ultra-low Co content Cu-Ni-Co-Si-X alloy via Bayesian optimization machine learning. **2022**, 29, 1197-1205	1
594	CoBABO: A Hyperparameter Search Method with Cost Budget Awareness. **2021**,	
593	Reference Vector-Assisted Adaptive Model Management for Surrogate-Assisted Many-Objective Optimization. **2022**, 1-14	1
592	Multi-objective optimization of multi-stage heat sink of electric aircraft using three-dimensional thermal network analysis. **2022**, 17, 21-00421-21-00421	0
591	An Analog Circuit Design and Optimization System with Rule-Guided Genetic Algorithm. **2022**, 1-1	1

590	A Fast Multi-Point Expected Improvement for Parallel Expensive Optimization. **2022**, 1-1	1
589	Experimental evaluation of CV-Voronoi based adaptive sampling for Kriging meta-modeling of multiple responses through real-time hybrid simulation.	0
588	Multi-Fidelity Gradient-Based Optimization for High-Dimensional Aeroelastic Configurations. **2022**, 15, 131	1
587	Surrogate Global Optimization for Identifying Cost-Effective Green Infrastructure for Urban Flood Control With a Computationally Expensive Inundation Model. **2022**, 58,	1
586	Topology optimization of heat exchangers: A review. **2022**, 124053	2
585	Bayesian Optimization with Expensive Integrands. **2022**, 32, 417-444	0
584	Tuning of Bayesian optimization for materials synthesis: simulation of the one-dimensional case. 0-0	1
583	Multi-Fidelity Surrogate-Based Process Mapping with Uncertainty Quantification in Laser Directed Energy Deposition.. **2022**, 15,	0
582	Hybrid algorithm of Bayesian optimization and evolutionary algorithm in crystal structure prediction. **2022**, 2, 67-74	0
581	Research on infilling strategy in surrogate-aided optimization for axial compressor blades. 095765092210823	
580	An efficient multi-fidelity simulation method for adaptive cycle engine ejector nozzle performance evaluation. **2022**, 107568	0
579	Surrogate-based aerodynamic shape optimization of a morphing wing considering a wide Mach-number range. **2022**, 124, 107557	0
578	Data-driven control of a Pendulum Wave Energy Converter: A Gaussian Process Regression approach. **2022**, 253, 111191	0
577	Ten-minute prediction of solar irradiance based on cloud detection and a long short-term memory (LSTM) model. **2022**, 8, 5146-5157	2
576	Table_1.docx. **2020**,	
575	Table_1.DOCX. **2018**,	
574	Data_Sheet_1.PDF. **2020**,	
573	Data_Sheet_1.PDF. **2020**,	

572   Data-Driven Materials Innovation and Applications.. **2022**, e2104113   2

571   Design optimization-under-uncertainty of a forward swept wing unmanned aerial vehicle using SAMURAI. **2022**, 14, 175682932210921

570   Bayesian Optimization for Expensive Smooth-Varying Functions. **2022**, 1-1   0

569   Experimental Case Study of Stochastic Surrogate-Assisted Engine Calibration. **2022**, 1-11

568   JAXA-ONERA-DLR cooperation: results from rotor optimization in hover. 1

567   Designing Robust Biotechnological Processes Regarding Variabilities Using Multi-Objective Optimization Applied to a Biopharmaceutical Seed Train Design. **2022**, 10, 883   0

566   Out of the Niche: Using Direct Search Methods to Find Multiple Global Optima. **2022**, 10, 1494   0

565   New Strategies for Direct Methane-to-Methanol Conversion from Active Learning Exploration of 16 Million Catalysts.   4

564   Sequential design strategy for kriging and cokriging-based machine learning in the context of reservoir history-matching. 1

563   Dynaring: a Patient-specific Mitral Annuloplasty Ring with Selective Stiffness Segments. **2022**,

562   Design of detectors at the electron ion collider with artificial intelligence. **2022**, 17, C04038

561   Systematic Reliability-Based Multidisciplinary Optimization by Parallel Adaptive Importance Candidate Region. **2022**, 9, 240   0

560   Data-driven model-based calibration for optimizing electrically boosted diesel engine performance. 146808742210903

559   SMGO-□Balancing Caution and Reward in Global Optimization with Black-Box Constraints. **2022**,   0

558   Surrogate-based bilevel shape optimization for blended-wingЮody underwater gliders. 1-22   2

557   Research on an Accuracy Optimization Algorithm of Kriging Model Based on a Multipoint Filling Criterion. **2022**, 10, 1548

556   Cooperative yaw control of wind farm using a double-layer machine learning framework. **2022**,   2

555   Digital Forensics AI: Evaluating, Standardizing and Optimizing Digital Evidence Mining Techniques. 1   1

554	Statistical Methods for Electrical Consumption. 1-6	
553	Defining Levels of Automated Chemical Design.. **2022**,	0
552	Automated Machine Learning (AutoML)-based Surface Registration Methodology for Image-guided Surgical Navigation System.. **2022**,	2
551	Effectively using multifidelity optimization for wind turbine design. **2022**, 7, 991-1006	1
550	On Wasted Contributions: Understanding the Dynamics of Contributor-Abandoned Pull Requests.	
549	A modified trust-region assisted variable-fidelity optimization framework for computationally expensive problems. **2022**, ahead-of-print,	
548	On the multi-fidelity approach in surrogate-based multidisciplinary design optimisation of high-aspect-ratio wing aircraft. 1-22	
547	An Model of T Cell Infiltration Dynamics Based on an Advanced System to Enhance Preclinical Decision Making in Cancer Immunotherapy.. **2022**, 13, 837261	0
546	Active learning-guided exploration of parameter space of air plasmas to enhance the energy efficiency of NOx production.	0
545	A fast method for electronic couplings in embedded multichromophoric systems.. **2022**,	1
544	A data-driven framework to predict fused filament fabrication part properties using surrogate models and multi-objective optimisation. 1	
543	Accelerated materials design using batch Bayesian optimization: A case study for solving the inverse problem from materials microstructure to process specification. **2022**, 210, 111417	0
542	Gaussian process-assisted active learning for autonomous data acquisition of impact echo. **2022**, 139, 104269	
541	Adaptive surrogate models with partially observed information. **2022**, 225, 108566	1
540	Pulsed Eddy Current signal processing using wavelet scattering and Gaussian process regression for fast and accurate ferromagnetic material thickness measurement. **2022**, 61, 11239-11250	1
539	Probabilistic learning inference of boundary value problem with uncertainties based on Kullback Leibler divergence under implicit constraints. **2022**, 395, 115078	0
538	A Surrogate-Assisted Hybrid Swarm Optimization Algorithm for High-Dimensional Computationally Expensive Problems. **2022**, 101096	0
537	A Surrogate-Based Optimization Method with Dynamic Adaptation for High-Dimensional Mixed-Integer Problems. **2022**, 101099	0

536	Bayesian Active Learning for Radiation Pattern Sampling Over Cylindrical Surfaces. **2022**, 1-8	
535	Global aero-structural design optimization of composite wings with active manoeuvre load alleviation.	1
534	Bayesian Hyper-Parameter Optimisation for Malware Detection. **2022**, 11, 1640	1
533	Multi-objective hull form optimization of a SWATH configuration using surrogate models. **2022**, 256, 111209	1
532	An automatic kriging machine learning method to calibrate meta-heuristic algorithms for solving optimization problems. **2022**, 113, 104940	0
531	Screening for shape memory alloys with narrow thermal hysteresis using combined XGBoost and DFT calculation. **2022**, 211, 111519	0
530	A general hierarchical ensemble-learning framework for structural reliability analysis. **2022**, 225, 108605	0
529	A Simulation-Based Model for Continuous Network Design Problem Using Bayesian Optimization. **2022**, 1-16	1
528	AntBO: Towards Real-World Automated Antibody Design with Combinatorial Bayesian Optimisation.	0
527	Safe Bayesian Optimization using Interior-Point Methods -Applied to Personalized Insulin Dose Guidance. **2022**, 1-1	2
526	Planning of EM Skins for Improved Quality-of-Service in Urban Areas. **2022**, 1-1	3
525	A dual objective global optimization algorithm based on adaptive weighted hybrid surrogate model for the hydrogen fuel utilization in hydrogen fuel cell vehicle. **2022**,	
524	Machine learning of fake micrographs for automated analysis of crystal growth process.	0
523	Constrained Bayesian optimization and spatio-temporal surveillance for sensor network design in the presence of measurement errors. 1-16	
522	AVEI-BO: an efficient Bayesian optimization using adaptively varied expected improvement. **2022**, 65,	
521	Improved feature selection with simulation optimization.	
520	Prediction of compressive strength of fiber-reinforced polymers-confined cylindrical concrete using artificial intelligence methods. 073168442110681	2
519	Calibration after bootstrap for accurate uncertainty quantification in regression models. **2022**, 8,	0

518	An investigation of the crashworthiness performance and optimization of tetra-chiral and reentrant crash boxes. 1-24	1
517	Multi-Objective Bayesian Optimization of Lithium-Ion Battery Cells for Electric Vehicle Operational Scenarios. **2022**, 3, 201-217	0
516	Reinforcement Learning Based Sequential Batch-sampling for Bayesian Optimal Experimental Design. 1-12	0
515	Slope reliability evaluation using an improved Kriging active learning method with various active learning functions. **2022**, 15,	1
514	Dynamic calculation and optimization design of arbitrary planar branch piping system. 107754632211030	
513	Selecting scale factor of Bayesian multi-fidelity surrogate by minimizing posterior variance. **2022**,	
512	Surrogate-Based Optimization Design for Air-Launched Vehicle Using Iterative Terminal Guidance. **2022**, 9, 300	
511	A new active learning approach for adsorbateßubstrate structural elucidation in silico. **2022**, 28,	0
510	ARKADIA - For the Innovation of Advanced Nuclear Reactor Design. **2022**,	
509	Optimizing Electrocaloric Effect in Barium Titanate-based Room Temperature Ferroelectrics: Combining Landau Theory, Machine Learning and Synthesis. **2022**, 235, 118054	0
508	Multibranch Machine Learning-Assisted Optimization and Its Application to Antenna Design. **2022**, 1-1	1
507	Global Surrogate Modeling byⓈNeural Network-Based Model Uncertainty. **2022**, 425-434	
506	Hyper-tune. **2022**, 15, 1256-1265	1
505	Unifying offline and online simulation for online decision-making. 1-13	
504	Multi-task Gaussian process upper confidence bound for hyperparameter tuning and its application for simulation studies of additive manufacturing. 1-13	
503	Autonomous Materials Discovery and Manufacturing (AMDM): A review and perspectives. 1-41	0
502	A Literature Survey on Offline Automatic Algorithm Configuration. **2022**, 12, 6316	0
501	Robust Design Under Uncertainty of Hypersonic Inlets. **2022**,	

500	Extraction of interaction parameters for RuCl3 from neutron data using machine learning. **2022**, 4,	1
499	A Methodology for Determining the Interdependence of Fuel Burn and LTO Noise of a Commercial Supersonic Transport. **2022**,	1
498	Sequential Construction and Dimension Reduction of Gaussian Processes Under Inequality Constraints. **2022**, 4, 772-800	0
497	Well production optimization using streamline features-based objective function and Bayesian adaptive direct search algorithm. **2022**,	0
496	A comparison of mixed-variables Bayesian optimization approaches. **2022**, 9,	0
495	Batch-sequential design and heteroskedastic surrogate modeling for delta smelt conservation. **2022**, 16,	
494	Thermoacoustic stabilization of combustors with gradient-augmented Bayesian optimization and adjoint models. 175682772211091	
493	Deep Gaussian Process for the Approximation of a Quadratic Eigenvalue Problem: Application to Friction-Induced Vibration. **2022**, 5, 344-369	
492	Identification of the Parameter Values of the Constitutive and Friction Models in Machining Using EGO Algorithm: Application to Ti6Al4V. **2022**, 12, 976	
491	A Kriging Approach to Model Updating for Damage Detection. **2023**, 245-255	1
490	Constrained Multi-Objective Bayesian Optimization with Application to Aircraft Design. **2022**,	0
489	CMS: a novel surrogate model with hierarchical structure based on correlation mapping.	
488	Thermal Induced Interface Mechanical Response Analysis of SMT Lead-Free Solder Joint and Its Adaptive Optimization. **2022**, 13, 908	0
487	Data-Driven Mapping of Inorganic Chemical Space for the Design of Transition Metal Complexes and Metal-Organic Frameworks. 127-179	
486	Improved Surrogate-based Design Optimization of Composite Rotor Blade. **2022**,	
485	A mixed-categorical data-driven approach for prediction and optimization of hybrid discontinuous composites performance. **2022**,	
484	Non-Myopic Multifidelity Method for Multi-regime Constrained Aerodynamic Optimization. **2022**,	
483	LOCAT: Low-Overhead Online Configuration Auto-Tuning of Spark SQL Applications. **2022**,	

482   A general square exponential kernel to handle mixed-categorical variables for Gaussian process. **2022**,

481   High-fidelity Aerodynamic and Aeroacoustic Multi-Objective Bayesian Optimization. **2022**,

480   Efficient aerostructural optimization of helicopter rotors toward aeroacoustic noise reduction using multilevel hierarchical kriging model. **2022**, 127, 107683   0

479   Stability improvement without efficiency penalty of a transonic centrifugal compressor by casing treatment and impeller/diffuser coupling optimization. **2022**, 127, 107685   0

478   Optimal management of mixed hydraulic barriers in coastal aquifers using multi-objective Bayesian optimization. **2022**, 612, 128021   0

477   Reliability-based optimization of multiple Folded Pendulum TMDs through Efficient Global Optimization. **2022**, 266, 114524   0

476   Cryogenic energy storage: Standalone design, rigorous optimization and techno-economic analysis. **2022**, 322, 119413   0

475   Adaptive Experimental Design of Real-Time Hybrid Simulation for Parameter Calibration of Rate-Dependent Devices toward Optimal Response Prediction. **2022**, 148,   1

474   Sliced Gradient-Enhanced Kriging for High-Dimensional Function Approximation and Aerodynamic Modeling.

473   Perturbation-based Stiffness Inference in Variable Impedance Control. **2022**, 1-8   2

472   Input Uncertainty in Stochastic Simulation. **2022**, 573-620   0

471   Advanced Numerical Modeling Methods for the Characterization and Optimization of Metasurfaces. **2022**,

470   An enhanced variable-fidelity optimization approach for constrained optimization problems and its parallelization. **2022**, 65,

469   Recent advances in the analysis and control of large populations of neural oscillators. **2022**,

468   A Novel Direct Optimization Framework for Hypersonic Waverider Inverse Design Methods. **2022**, 9, 348

467   Active Learning Query Strategies for Linear Regression Based on Efficient Global Optimization. **2022**, 2022, 1-16

466   Robotic search for optimal cell culture in regenerative medicine. 11,   1

465   Scaled Vecchia Approximation for Fast Computer-Model Emulation. **2022**, 10, 537-554   0

464	Multiobjective ensemble surrogate-based optimization algorithm for groundwater optimization designs. **2022**, 128159	0
463	Bayesian Inverse Modelling of Early-Age Stress Evolution in GGBFS Concrete Due to Autogenous Deformation and Aging Creep. **2023**, 207-217	
462	OPTIMAL AIR CONDITIONER CONFIGURATION USING SPARSE ESTIMATION AND EXTREME STATISTICS. **2022**, 65, 138-155	
461	Autonomous synthesis system integrating theoretical, informatics, and experimental approaches for large-magnetic-anisotropy materials. **2022**, 2, 280-293	0
460	Plasmasurfen auf Pilotanlagenkurs. **2022**, 53, 168-174	
459	DOCKSTRING: Easy Molecular Docking Yields Better Benchmarks for Ligand Design.	1
458	MBORE. **2022**,	0
457	VolcanoML: speeding up end-to-end AutoML via scalable search space decomposition.	1
456	Quantifying uncertainty with ensembles of surrogates for blackbox optimization.	0
455	A survey on high-dimensional Gaussian process modeling with application to Bayesian optimization.	0
454	Recent advances and applications of surrogate models for finite element method computations: a review.	2
453	Predictive Subdata Selection for Computer Models. 1-34	
452	A Bayesian Optimization Approach to the Simultaneous Extraction of Intrinsic Physical Parameters from T1 and T2 Relaxation Responses. **2022**, 1-23	0
451	Identification of high-dielectric constant compounds from statistical design. **2022**, 8,	0
450	Arm. **2022**,	
449	An adaptive Kriging reliability analysis method based on novel condition likelihood function.	0
448	Machine learning with a susceptibility index-based sampling strategy for landslide susceptibility assessment. 1-27	
447	The adaptive weight learning function for reliability analysis and its application to multiple active learning methods.	

446   Multi-point acquisition function for constraint parallel efficient multi-objective optimization. **2022**,

445   Physics-Informed Machine Learning Assisted Uncertainty Quantification for the Corrosion of Dissimilar Material Joints. **2022**, 108711   o

444   Guiding surrogate-assisted multi-objective optimisation with decision maker preferences. **2022**,

443   Improving LSHADE by means of a pre-screening mechanism. **2022**,   2

442   An active learning Kriging-based method combining the weight information entropy function and the adaptive candidate sample pool. 1748006X2211088

441   Polymorphic uncertainty quantification for engineering structures via a hyperplane modelling technique. **2022**, 398, 115250   o

440   A systematic exploration of reservoir computing for forecasting complex spatiotemporal dynamics. **2022**, 153, 530-552   1

439   Mapping soil organic carbon stocks in Tunisian topsoils. **2022**, 30, e00561   o

438   Bayesian optimization of distributed neurodynamical controller models for spatial navigation. **2022** , 15, 100218   o

437   Knowledge-based turbomachinery design system via a deep neural network and multi-output Gaussian process. **2022**, 252, 109352   o

436   Bayesian probabilistic propagation of hybrid uncertainties: Estimation of response expectation function, its variable importance and bounds. **2022**, 270, 106860   o

435   Energy absorption behaviors and optimization design of thin-walled double-hat beam under bending. **2022**, 179, 109577   o

434   A feature-subspace-based ensemble method for estimating long-term voltage stability margins. **2022**, 212, 108481   1

433   Algorithm 1025: PARyOpt: A Software for P arallel A synchronous R emote Ba y esian Opt imization. **2022**, 48, 1-15

432   A Robust Bayesian Optimization Framework for Microwave Circuit Design under Uncertainty. **2022**, 11, 2267

431   Uncertainty Quantification and Optimal Robust Design for Machining Operations. 1-18

430   Experiments and hyperelastic modeling of porcine meniscus show heterogeneity at high strains.

429   Deep Gaussian process for multi-objective Bayesian optimization.   o

410	An efficient yield optimization method for analog circuits via gaussian process classification and varying-sigma sampling. **2022**,	
409	MOEA/D with gradient-enhanced kriging for expensive multiobjective optimization.	
408	Parameter analysis of a multi-element airfoil for application to airborne wind energy. **2022**, 7, 1627-1640	1
407	An Adaptive Batch Bayesian Optimization Approach for Expensive Multi-Objective Optimization. **2022**,	0
406	Bayesian Target-Vector Optimization for Efficient Parameter Reconstruction. 2200112	0
405	An improved system for efficient shape optimization of vehicle aerodynamics with Boisy computations. **2022**, 65,	
404	A hyper-heuristic guided by a probabilistic graphical model for single-objective real-parameter optimization.	
403	An Improved Blind Kriging Surrogate Model for Design Optimization Problems. **2022**, 10, 2906	
402	Lithofacies prediction driven by logging-based Bayesian-optimized ensemble learning: A case study of lacustrine carbonate reservoirs.	
401	Novel reliability evaluation method combining active learning kriging and adaptive weighted importance sampling. **2022**, 65,	
400	Performance-driven Wire Sizing for Analog Integrated Circuits.	
399	Automated deep brain stimulation programming with safety constraints for tremor suppression in patients with Parkinson disease and essential tremor. **2022**, 19, 046042	0
398	Data-driven strategies for optimization of integrated chemical plants. **2022**, 107961	0
397	An Adaptive Two-Stage Kriging-Based Infilling Strategy for Efficient Multi-Objective Global Optimization. **2022**, 144,	
396	Convergence Rates of Epsilon-Greedy Global Optimization Under Radial Basis Function Interpolation.	
395	A Kriging-based adaptive parallel sampling approach with threshold value. **2022**, 65,	0
394	Systematic cost analysis of gradient- and anisotropy-enhanced Bayesian design optimization. **2022**, 65,	
393	Now What Sequence? Pre-trained Ensembles for Bayesian Optimization of Protein Sequences.	0

392 GSO-CRS: grid search optimization for collaborative recommendation system. **2022**, 47,

391 Cooperative Bayesian optimization with hybrid grouping strategy and sample transfer for expensive large-scale black-box problems. **2022**, 109633

390 Multi-objective Shape Optimization of Airfoils for Mars Exploration Aircraft Propellers.

389 Maximizing mRNA vaccine production with bayesian optimization. 1

388 Descriptor-Free Design of Multicomponent Catalysts. 10562-10571 1

387 BoA-PTA, An Bayesian Optimization Accelerated PTA Solver for SPICE Simulation.

386 A proposal for improving production efficiency of existing machining line through a hybrid monitoring and optimisation process. 1-19 1

385 Transfer Learning based Search Space Design for Hyperparameter Tuning. **2022**,

384 Efficient Bayesian Optimization of Industrial-Scale Pressure-Vacuum Swing Adsorption Processes for CO_2 Capture. 0

383 Automatized Experimental Combustor Development Using Adaptive Surrogate Model-Based Optimization. **2022**, 0

382 Process parameters optimization in plastic injection molding using metamodel-based optimization: a comprehensive review. **2022**, 121, 7117-7145

381 TransBO: Hyperparameter Optimization via Two-Phase Transfer Learning. **2022**,

380 Topology optimization design of deformable flexible thermoelectric devices for voltage enhancement. 1-18 0

379 Improving Sustainability Index of Grey Cast Iron Finish Cutting Through High-Speed Dry Turning and Cutting Parameters Optimization Using Taguchi-Based Bayesian Method.

378 An efficient global optimization algorithm for expensive constrained black-box problems by reducing candidate infilling region. **2022**, 609, 1641-1669 0

377 Science Requirements and Detector Concepts for the Electron-Ion Collider. **2022**, 1026, 122447 2

376 A confidence-based aerospace design approach robust to structural turbulence closure uncertainty. **2022**, 246, 105614

375 A reliability analysis method based on adaptive Kriging and partial least squares. **2022**, 70, 103342 0

374	Informative Path Planning to Estimate Quantiles for Environmental Analysis. **2022**, 7, 10280-10287	
373	Swarm intelligence for new materials. **2022**, 214, 111699	
372	An approach for computationally expensive multi-objective optimization problems with independently evaluable objectives. **2022**, 75, 101146	1
371	Collaborative optimization by shared objective function data. **2022**, 100249	0
370	Predicting early-age stress evolution in restrained concrete by thermo-chemo-mechanical model and active ensemble learning.	0
369	CNN-Hyperparameter Optimization for Diabetic Maculopathy Diagnosis in Optical Coherence Tomography and Fundus Retinography. **2022**, 10, 3274	0
368	Bayesian optimization techniques for high-dimensional simulation-based transportation problems. **2022**, 164, 210-243	1
367	A comparison of multiple methods for mapping groundwater levels in the Mu Us Sandy Land, China. **2022**, 43, 101189	1
366	Machine learning in aerodynamic shape optimization. **2022**, 134, 100849	1
365	Optimization of dividing wall columns based on online Kriging model and improved particle swarm optimization algorithm. **2022**, 166, 107978	0
364	Nozzle design optimization for supersonic wind tunnel by using surrogate-assisted evolutionary algorithms. **2022**, 130, 107879	0
363	Towards high entropy alloy with enhanced strength and ductility using domain knowledge constrained active learning. **2022**, 223, 111186	0
362	Time-of-day pricing for toll roads under traffic demand uncertainties: A distributionally robust simulation-based optimization method. **2022**, 144, 103894	1
361	Adaptive surrogate-assisted multi-objective evolutionary algorithm using an efficient infill technique. **2022**, 75, 101170	0
360	Bayesian Optimization of crewed lunar free return abort trajectory. **2022**, 201, 288-301	0
359	A nested single-loop Kriging model coupled with subset simulation for time-dependent system reliability analysis. **2022**, 228, 108819	0
358	Development and assessment of prognosis digital twin in a NAMAC system. **2022**, 179, 109439	2
357	Dynamic reliability analysis of main shaft bearings in wind turbines. **2022**, 235, 107721	0

356	Efficient scenario analysis for optimal adaptation of bridge networks under deep uncertainties through knowledge transfer. **2023**, 100, 102278	0
355	Bayesian Optimization Approach for RF Circuit Synthesis via Multitask Neural Network Enhanced Gaussian Process. **2022**, 1-9	1
354	Sequential Optimization of a Temporary Storage Location for Cooperative Twin Overhead Shuttles in a Rail-Based Automated Container Terminal. **2022**, 285-292	0
353	Modeling Flow Through Inclined Perforated Plates.	0
352	On-line automatic controller tuning using Bayesian optimisation - a bulk tailings treatment plant case study. **2022**, 55, 126-131	0
351	Metamodeling of chemical engineering unit operations using Kriging and prediction error estimation. **2022**, 535-540	0
350	Nested Bayesian Optimization for Computer Experiments. **2022**, 1-10	0
349	Automated Benchmark-Driven Design and Explanation of Hyperparameter Optimizers. **2022**, 1-1	0
348	Reliability Analysis with Partially Observed Information. **2022**,	0
347	High Dimensional Bayesian Optimization with Kernel Principal Component Analysis. **2022**, 118-131	0
346	Guaranteed Error-bounded Surrogate Modeling and Application to Thermodynamics. **2022**, 1831-1836	0
345	An Uncertainty Estimation Method of Support Vector Machine Surrogate Model Assisting for Expensive Optimization. **2022**, 360-368	0
344	Optimization of a Double-Intake Squirrel Cage Fan Using Openfoam and Metamodels.	0
343	Automatic Configuration of Genetic Algorithm for the Optimization of Electricity Market Participation Using Sequential Model Algorithm Configuration. **2022**, 245-257	0
342	Gaussian Processes for Simulation-Based Optimization and Robust Design. **2022**, 1243-1248	0
341	Reinforcement Learning based Multi-Step Look-Ahead Bayesian Optimization. **2022**, 55, 100-105	0
340	ANN-assisted optimization-based design of energy-integrated distillation columns. **2022**, 1261-1266	0
339	Informing multi-objective optimisation benchmark construction through Instance Space Analysis. **2022**, 1-1	0

338	Design of an Event-Driven Rescheduling Algorithm via Surrogate-based Optimization. **2022**, 1255-1260	0
337	Automatic Structural Elucidation of Vacancies in Materials by Active Learning.	0
336	Recombination Weight Based Selection in the DTS-CMA-ES. **2022**, 295-308	0
335	HPO $$times $$ ELA: Investigating Hyperparameter Optimization Landscapes by Means of Exploratory Landscape Analysis. **2022**, 575-589	0
334	A Systematic Approach to Analyze the Computational Cost of Robustness in Model-Assisted Robust Optimization. **2022**, 63-75	0
333	Surrogate-Assisted LSHADE Algorithm Utilizing Recursive Least Squares Filter. **2022**, 146-159	0
332	Bayesian Optimization Based on Pseudo Labels. **2022**,	0
331	A Framework for Guaranteed Error-bounded Surrogate Modeling. **2022**,	0
330	Borderline Knock Prediction Using Machine Learned Kriging Model. **2022**,	0
329	VABO: Violation-Aware Bayesian Optimization for Closed-Loop Control Performance Optimization with Unmodeled Constraints. **2022**,	0
328	A Fast Randomized Local Search for Low Budget Optimization in Black-Box Permutation Problems. **2022**,	0
327	IE-AK: A novel adaptive sampling strategy based on information entropy for Kriging in metamodel-based reliability analysis. **2023**, 229, 108824	0
326	Bayesian Optimization with Fixed Constraints using Acceptance Functions. **2022**,	0
325	Hyperparameters Adaptive Sharing Based on Transfer Learning for Scalable GPs. **2022**,	0
324	One-Parameter Family of New Acquisition Functions for Efficient Global Optimization. **2022**,	0
323	Robust Constrained Multi-objective Evolutionary Algorithm based on Polynomial Chaos Expansion for Trajectory Optimization. **2022**,	0
322	Global Search versus Local Search in Hyperparameter Optimization. **2022**,	0
321	Multi-objective System Optimization of Suborbital Spaceplane by Multi-fidelity Aerodynamic Analysis. **2023**, 283-296	0

320	Robust sequential experimental strategy for black-box optimization with application to hyperparameter tuning.	0
319	A High-Precision Surrogate Modeling Method Based on Parallel Multipoint Expected Improvement Point Infill Criteria for Complex Simulation Problems. **2022**, 10, 3088	0
318	Multiobjective Optimization of a Highly Maneuverable Supersonic Airfoil Using Multifidelity EGO. **2023**, 339-351	0
317	Surrogate-based branch-and-bound algorithms for simulation-based black-box optimization.	0
316	Active learning-based multi-objective optimization for aerodynamic performance of a supercritical carbon dioxide turbine. **2022**, 65,	0
315	Harvesting the Ly Forest with convolutional neural networks.	0
314	A kriging-assisted bi-objective constrained global optimization algorithm for expensive constrained optimization problems. 1-18	0
313	BI-OBJECTIVE SURROGATE FEASIBILITY ROBUST DESIGN OPTIMIZATION UTILIZING EXPECTED NON-DOMINATED IMPROVEMENT WITH RELAXATION. 1-14	1
312	An Uncertainty Measure for Prediction of Non-Gaussian Process Surrogates. 1-17	0
311	A methodology for scheduling within-day roadway work zones using deep neural networks and active learning.	1
310	Model order reduction for film-cooled applications under probabilistic conditions: sparse reconstruction of POD in combination with Kriging. **2022**, 65,	0
309	Methods for constrained optimization of expensive mixed-integer multi-objective problems, with application to an internal combustion engine design problem. **2022**,	0
308	Modeling and Active Learning for Experiments with Quantitative-Sequence Factors. 1-40	1
307	An adaptive Kriging-based structural reliability analysis method combing dichotomy and improved convergence criterion. 1748006X2211193	0
306	Stride-TCN for Energy Consumption Forecasting and Its Optimization. **2022**, 12, 9422	0
305	Spline-based shape optimization of large-scale composite leaf spring models using Bayesian strategies with multiple constraints. **2022**, 65,	0
304	Colloquium : Machine learning in nuclear physics. **2022**, 94,	0
303	Mixture of Gaussian Processes Based on Bayesian Optimization. **2022**, 2022, 1-10	0

302	Balancing Optimal Large Deviations in Sequential Selection.	1
301	Producing chemically accurate atomic Gaussian process regression models by active learning for molecular simulation.	2
300	Multifidelity multiobjective optimization for wake-steering strategies. **2022**, 7, 1941-1955	0
299	SAMURAI: A New Asynchronous Bayesian Optimization Technique for Optimization-Under-Uncertainty. 1-24	0
298	A time-dependent reliability analysis method based on multi-level meta-models for problems involving interval variables. **2022**, 103369	0
297	Geometry Optimization of the Runner Insert for Improving the Appearance Quality of the Injection Molded Auto Part. **2022**, 14, 4085	0
296	Vecchia-approximated Deep Gaussian Processes for Computer Experiments. 1-35	1
295	Comparison of the Performance of a Surrogate Based Gaussian Process, NSGA2 and PSO Multi-objective Optimization of the Operation and Fuzzy Structural Reliability of Water Distribution System: Case Study for the City of Asmara, Eritrea.	0
294	A parallel technique for multi-objective Bayesian global optimization: Using a batch selection of probability of improvement. **2022**, 101183	0
293	GAN-DUF: Hierarchical Deep Generative Models for Design Under Free-Form Geometric Uncertainty. 1-17	0
292	Metamodel-based optimization of shift planning in high-bay warehouse operations.	1
291	Automatic Evolution of Machine-Learning-Based Quantum Dynamics with Uncertainty Analysis.	0
290	Ab Initio to Activity: Machine Learning-Assisted Optimization of High-Entropy Alloy Catalytic Activity.	1
289	Descriptor Aided Bayesian Optimization for Many-Level Qualitative Variables with Materials Design Applications. 1-27	0
288	Uncertainty optimization design of airfoil based on adaptive point adding strategy. **2022**, 130, 107875	0
287	Reliability analysis of discrete-state performance functions via adaptive sequential sampling with detection of failure surfaces. **2022**, 401, 115606	0
286	An Efficient Method for Antenna Design Based on a Self-Adaptive Bayesian Neural Network Assisted Global Optimization Technique. **2022**, 1-1	0
285	Bayesian optimisation with transfer learning for NASICON-type solid electrolytes for all-solid-state Li-metal batteries. **2022**, 12, 30696-30703	0

284	An automation system for vehicle driveability evaluation using machine learning. **2022**,	0
283	ICHOR: a modern pipeline for producing Gaussian process regression models for atomistic simulations.	1
282	Method for solving the nonlinear inverse problem in gas face seal diagnosis based on surrogate models. **2022**, 17,	0
281	Scalable and modular 8-channel transmit and 8-channel flexible receive coil array for 19 F MRI of large animals.	0
280	Digital twin for component health- and stress-aware rotorcraft flight control. **2022**, 65,	1
279	Efficient Calibration of Multi-Agent Simulation Models from Output Series with Bayesian Optimization. **2022**,	0
278	A perspective on Bayesian methods applied to materials discovery and design.	0
277	A novel Bayesian approach for multi-objective stochastic simulation optimization. **2022**, 101192	0
276	Combined active learning Kriging with optimal saturation nonlinear vibration control for uncertain systems with both aleatory and epistemic uncertainties. **2022**, 104267	0
275	Bayesian Optimization for Cascade-Type Multistage Processes. 1-24	0
274	TREGO: a trust-region framework for efficient global optimization.	0
273	egobox, a Rust toolbox for efficient global optimization. **2022**, 7, 4737	0
272	Application of interval field method to the stability analysis of slopes in presence of uncertainties. **2022**, 105060	0
271	Adaptive surrogate modeling for high-dimensional spatio-temporal output. **2022**, 65,	0
270	Simulation and design of an IPHI-based neutron source, first steps toward SONATE. **2022**, 1-9	0
269	A Joint Bayesian Optimization for the Classification of Fine Spatial Resolution Remotely Sensed Imagery Using Object-Based Convolutional Neural Networks. **2022**, 11, 1905	0
268	A Framework of Adaptive Fuzzy Control and Optimization for Nonlinear Systems with Output Constraints. **2022**,	0
267	Optimization of Duct Shape for Improving Aerodynamic Performance of Ducted Tail Rotor.	0

266	HAS-EA: a fast parallel surrogate-assisted evolutionary algorithm.	0
265	Shape Optimization of Pin-Fins by Free-Form Deformation and Active Learning Surrogate Model. 1-9	0
264	INSPIRE: Distributed Bayesian Optimization for ImproviNg SPatIal REuse in Dense WLANs. **2022**,	0
263	ALeRSa-DDEA: active learning with reliability sampling-based evolutionary algorithm framework for solving offline data-driven expensive engineering optimization. **2022**, 65,	0
262	Data-Driven Simultaneous Process Optimization and Adsorbent Selection for Vacuum Pressure Swing Adsorption. **2022**,	0
261	A multi-fidelity approach coupling parameter space reduction and non-intrusive POD with application to structural optimization of passenger ship hulls.	0
260	An active learning Kriging model with adaptive parameters for reliability analysis.	0
259	A cross validation-Voronoi and entropy based adaptive sampling strategy for uncertainty quantification through hybrid simulation.	0
258	Assessment of discrete wind gust parameters: Towards the worst-case scenario of a FSI application in form of an inflated hemisphere. **2022**, 231, 105207	0
257	Multi-objective optimization of explosive waste treatment process considering environment via Bayesian active learning. **2023**, 117, 105463	0
256	Robust design optimisation under lack-of-knowledge uncertainty. **2023**, 275, 106910	1
255	CAMERA: A method for cost-aware, adaptive, multifidelity, efficient reliability analysis. **2023**, 472, 111698	0
254	Time-Variant Reliability Analysis for a Complex System Based on Active-Learning Kriging Model. **2023**, 9,	0
253	Time-Variant Reliability Analysis for a Complex System Based on Active-Learning Kriging Model. **2023**, 9,	0
252	Optimal Learning and Optimal Design. **2022**, 49-76	0
251	Hall-Effect Sensor Design with Physics-informed Gaussian Process Modeling. **2022**, 1-1	0
250	Expensive Optimization via Surrogate-Assisted and Model-Free Evolutionary Optimization. **2022**, 1-12	0
249	Safe and Personalized Meal Bolus Calculator for Type-1 Diabetes using Bayesian Optimization. **2022**, 1-12	0

248	Hybrid Acquisition Processes in Surrogate-Based Optimization. Application to Covid-19 Contact Reduction. **2022**, 127-141	0
247	Optimized Data Sampling and Energy Consumption in IIoT: A Federated Learning Approach. **2022**, 1-1	0
246	Bayesian updating with two-step parallel Bayesian optimization and quadrature. **2023**, 403, 115735	0
245	Optimal budget allocation policy for tabu search in stochastic simulation optimization. **2023**, 150, 106046	3
244	Decision space partition based surrogate-assisted evolutionary algorithm for expensive optimization. **2023**, 214, 119075	0
243	MALIBOO: When Machine Learning meets Bayesian Optimization. **2022**,	0
242	A novel heuristic target-dependent neural architecture search method with small samples. 13,	0
241	KT-EGO: a knowledge transfer assisted efficient global optimization algorithm for solving high-dimensional expensive black-box problems. 1-19	1
240	Introduction. **2023**, 1-38	0
239	A radial sampling-based subregion partition method for dendrite network-based reliability analysis. 1-20	0
238	Uncertainty-aware mixed-variable machine learning for materials design. **2022**, 12,	0
237	The Spring of Processing Chemistry in Perovskite Solar Cells Bayesian Optimization. 10741-10750	0
236	Modeling convergent scale-by-scale skin color patterning in multiple species of lizards. **2022**,	0
235	A machine learning and game theory-based approach for predicting creep behavior of recycled aggregate concrete. **2022**, 17, e01653	0
234	Sample regeneration algorithm for structural failure probability function estimation. **2022**, 103387	0
233	Low-cost quasi-global optimization of expensive electromagnetic simulation models by inverse surrogates and response features. **2022**, 12,	0
232	Machine learning-based multi-objective optimization for efficient identification of crystal plasticity model parameters. **2023**, 403, 115740	0
231	Two-step parameter identification of multi-axial cyclic constitutive law of structural steels from cyclic structural responses. **2022**, 46, 2014-2030	0

230	Optimal high-throughput virtual screening pipeline for efficient selection of redox-active organic materials. **2023**, 26, 105735	0
229	Computer-aided design of formulated products: A bridge design of experiments for ingredient selection. **2023**, 169, 108083	1
228	Efficient buckling analysis and optimization method for rotationally periodic stiffened shells accelerated by Bloch wave method. **2023**, 276, 115395	0
227	A credible interval analysis method for uncertain structures under nonprobabilistic framework. **2023**, 404, 115833	0
226	An efficient method for time-dependent reliability problems with high-dimensional outputs based on adaptive dimension reduction strategy and surrogate model. **2023**, 276, 115393	0
225	Solving multi-objective inverse problems of chained manufacturing processes. **2023**, 40, 213-231	0
224	Multi-Job Intelligent Scheduling With Cross-Device Federated Learning. **2023**, 34, 535-551	0
223	An accelerated active learning Kriging model with the distance-based subdomain and a new stopping criterion for reliability analysis. **2023**, 231, 109034	0
222	Dependency effect on the reliability-based design optimization of complex offshore structure. **2023**, 231, 109026	0
221	Microstructure and oxidation behavior of Co📦Cr📦a ternary alloys. **2023**, 936, 167968	0
220	Impact of nickel📦titanium super-elastic material properties on the mechanical performance of self-expandable transcatheter aortic valves. **2023**, 138, 105623	0
219	Numerical investigation and performance enhancement of an ammonia-water radial-outflow turbine through the flow-oriented optimization. **2023**, 222, 119909	0
218	Integrating adaptive Kriging with expansion optimal linear estimation into real-time hybrid simulation for time-variant experimental analysis of structures with deterioration. **2023**, 64, 105658	0
217	Numerical and experimental analysis of the cavitation characteristics of orifice plates under high-pressure conditions based on a modified cavitation model. **2023**, 203, 123782	0
216	Optimum design of nonlinear structures via deep neural network-based parameterization framework. **2023**, 98, 104869	0
215	The intelligent design of reflow soldering based on an improved high-dimensional surrogate assisted optimization method. **2022**, 214, 295-303	0
214	Control Design via Bayesian Optimization with Safety Constraints. **2022**,	0
213	Accelerating Noisy VQE Optimization with Gaussian Processes. **2022**,	0

212	An Efficient Constrained Global optimization Method through Adaptively Adjusting Predicted Feasible Region and Its Application in Buckling Design of Stiffened Cylindrical Shell with Variable Ribs. **2022**,	0
211	Vehicle speed tracking in bench test based on DDPG. **2022**,	0
210	Batch Acquisition for Parallel Bayesian Optimization. Application to Hydro-Energy Storage Systems Scheduling. **2022**, 15, 446	0
209	Multiple Surrogate-Model-Based Optimization Method Using the Multimodal Expected Improvement Criterion for Expensive Problems. **2022**, 10, 4467	0
208	Dispersion-enhanced sequential batch sampling for adaptive contour estimation.	0
207	Adaptive confidence bound based Bayesian optimization via potentially optimal Lipschitz conditions. 1-19	0
206	Optimization Design of Drum Brake Stability with Mixed Model of Random and Interval Variables.	0
205	Exploring the Optimal Alloy for Nitrogen Activation by Combining Bayesian Optimization with Density Functional Theory Calculations. **2022**, 7, 45403-45408	0
204	Knowledge Gradient: Capturing Value of Information in Iterative Decisions under Uncertainty. **2022**, 10, 4527	0
203	Using the knowledge gradient acquisition function in Bayesian optimization when searching for robust solutions. 1-18	0
202	Multi-objective robust optimization using adaptive surrogate models for problems with mixed continuous-categorical parameters. **2022**, 65,	1
201	A dimensionality reduction and layout optimization scheme for grid-stiffened structures. 1-17	0
200	A survey on multi-objective hyperparameter optimization algorithms for machine learning.	2
199	MSSRGO: A multimeta-model-based global optimization method using a selection-rank-based infill sampling strategy. **2022**,	0
198	Active Learning Exploration of Transition-Metal Complexes to Discover Method-Insensitive and Synthetically Accessible Chromophores.	0
197	Adaptive surrogate model coupled with stochastic configuration network strategies for time-dependent reliability assessment. **2022**, 103406	0
196	A Prototype Machine Learning Tool Aiming to Support 3D Crowdsourced Cadastral Surveying of Self-Made Cities. **2023**, 12, 8	0
195	Structure-based hyperparameter selection with Bayesian optimization in multidimensional scaling. **2023**, 33,	1

194	A robust multi-objective Bayesian optimization framework considering input uncertainty.	0
193	Stochastic efficient global optimization with high noise variance and mixed design variables. **2023**, 45,	0
192	Model-free Real-time Optimization of Process Systems using Safe Bayesian Optimization.	0
191	Performance optimizing and entropy generation analysis of a platinum–stainless-steel segmented microreactor. **2022**, 141151	0
190	Grain yield prediction model based on the analysis of climate and irrigated area conditions in the wheat grain-filling period.	0
189	Optimizing tuberculosis treatment efficacy: comparing the standard regimen with Moxifloxacin-containing regimens.	0
188	Intelligent optimization of stiffener unit cell via variational autoencoder-based feature extraction. **2023**, 66,	1
187	Geometrically consistent aerodynamic optimization using an isogeometric Discontinuous Galerkin method. **2022**, 128, 368-381	0
186	Inference of regulatory networks through temporally sparse data. 3,	0
185	Active Discovery of Donor:Acceptor Combinations For Efficient Organic Solar Cells. **2022**, 14, 54895-54906	0
184	Data-driven Harris Hawks constrained optimization for computationally expensive constrained problems.	0
183	NM-MF: Non-Myopic Multifidelity Framework for Constrained Multi-Regime Aerodynamic Optimization. 1-11	0
182	Bayesian optimisation for breeding schemes. 13,	0
181	Optimizing the configuration of plasma radiation detectors in the presence of uncertain instrument response and inadequate physics. **2023**, 89,	0
180	Machine-learning assisted compositional optimization of 2xxx series aluminum alloys towards tensile strength.	0
179	A Semi-Parallel Active Learning Method Based on Kriging for Structural Reliability Analysis. **2023**, 13, 1036	0
178	A set-based approach for hierarchical optimization problem using Bayesian active learning.	0
177	Groundwater Management and Allocation Models: A Review. **2023**, 15, 253	0

176	Simulation-based Optimization of Material Requirements Planning Parameters. **2023**, 217, 1117-1126	o
175	A Scalable Gaussian Process for Large-Scale Periodic Data. 1-27	o
174	Adaptive kriging model-based structural reliability analysis under interval uncertainty with incomplete data. **2023**, 66,	o
173	A Transformation-Based Improved Kriging Method for the Black Box Problem in Reliability-Based Design Optimization. **2023**, 11, 218	2
172	Hybrid Method for Constrained Bayesian Optimization.	o
171	Toward real-world automated antibody design with combinatorial Bayesian optimization. **2023**, 100374	1
170	Optimization Design of Aspect Ratio and Solidity of a Heavy-Duty Gas Turbine Transonic Compressor Rotor. **2023**, 11, 82	o
169	Graph neural networks for conditional de novo drug design.	o
168	Hyperparameter optimization: Foundations, algorithms, best practices, and open challenges.	1
167	A proportional expected improvement criterion-based multi-fidelity sequential optimization method. **2023**, 66,	o
166	Development and calibration of a model for packed bed marine scrubbers aboard ocean-going vessels. **2023**,	o
165	Gaussian process regression-based Bayesian optimization of the insulation-coating process for FeSi alloy sheets. **2023**, 22, 3294-3301	o
164	Time- and Space-Dependent Reliability-Based Design with Envelope Method. 1-34	o
163	Optimal sampling-based neural networks for uncertainty quantification and stochastic optimization. **2023**, 133, 108109	o
162	Adaptive learning-driven high-throughput synthesis of oxygen reduction reaction Fe N C electrocatalysts. **2023**, 559, 232583	o
161	Estimation of an imprecise power spectral density function with optimised bounds from scarce data for epistemic uncertainty quantification. **2023**, 189, 110072	o
160	Multi-objective Bayesian optimization accelerated design of TPMS structures. **2023**, 244, 108085	o
159	Automatic Parameter Adaptation for Quadrotor Trajectory Planning. **2022**,	o

158	Optimizing Facial Expressions of an Android Robot Effectively: a Bayesian Optimization Approach. **2022**,	0
157	Sparse Gaussian Process Regression using Progressively Growing Learning Representations. **2022**,	0
156	Efficient Multi-Step Lookahead Bayesian Optimization with Local Search Constraints. **2022**,	0
155	A high-dimensional optimization method combining projection correlation-based Kriging and multimodal parallel computing. **2023**, 66,	0
154	Black-box Optimization by Annealing Machines. **2022**, 29, 164-173	0
153	High throughput optimization of medium composition for Escherichia coli protein expression using deep learning and Bayesian optimization. **2022**,	0
152	Reference Vector Assisted Candidate Search with Aggregated Surrogate for Computationally Expensive Many Objective Optimization Problems.	0
151	GPU-Accelerated Infill Criterion for Multi-Objective Efficient Global Optimization Algorithm and Its Applications. **2023**, 13, 352	0
150	Surrogate-assisted Differential Evolution with Adaptation of Training Data Selection Criterion. **2022**,	0
149	Rotorcraft low-noise trajectories design: black-box optimization using surrogates.	0
148	Shapley Additive Explanations for Knowledge Discovery in Aerodynamic Shape Optimization. **2023**,	0
147	Interactive Visualisation of Multi-Fidelity Design Optimisation. **2023**,	0
146	An Algorithm for Multi-Objective Efficient Parametric Optimization. 1-15	0
145	Rapid Training of Emulator Embedded Neural Networks for Multi-Fidelity Conceptual Design Studies. **2023**,	0
144	A comparison of gradient-free and gradient-enhanced optimization methods for the robust design of a compressor rotor. **2023**,	0
143	Multi-fidelity Bayesian optimization strategy applied to Overall Drone Design. **2023**,	0
142	Recent Advances in Bayesian Optimization.	1
141	Rapid Assessment of Incipient Multimodal Faults of Complex Aerospace Systems. **2023**,	0

140	A Bayesian optimization approach to the extraction of intrinsic physical parameters from T2 relaxation responses. **2023**, 367, 01002	0
139	Wide-Band Wide-Beam Circularly-Polarized Slot-Coupled Antenna for Wide-Angle Beam Scanning Arrays. **2023**, 23, 1123	0
138	Design of an Aeroelastically Scaled Model in a Compressible Air Wind Tunnel Facility Using Multifidelity Multi-Objective Bayesian Optimization. **2023**,	0
137	Efficient Uncertainty Quantification Using Dimension Reduction Technology. **2023**,	0
136	A Surrogate-Assisted Two-Stage Differential Evolution for Expensive Constrained Optimization. **2023**, 1-16	0
135	On Uncertainty Quantification in Materials Modeling and Discovery: Applications of GE's BHM and IDACE. **2023**,	0
134	Efficient Global Optimization Algorithm Using Neural Network-based Prediction and Uncertainty. **2023**,	0
133	Transformers For Recognition In Overhead Imagery: A Reality Check. **2023**,	0
132	Multi-Objective Aerodynamic Optimization and Design Information Extraction for Multi-Slotted Variable-Camber Morphing Wing Using Surrogate-Model. **2023**, 71, 26-32	0
131	Credibility-Based Multidisciplinary Design Optimisation of Electric Aircraft. **2023**,	0
130	Multi-Objective Bayesian Optimization using an Active Subspace-based Approach. **2023**,	0
129	Bayesian Optimized Oscillating Electric Heating of Dicyclopentadiene and Norbornene for Fuel Production.	0
128	Improving Multi-fidelity Optimization with a Recurring Learning Rate for Hyperparameter Tuning. **2023**,	0
127	Fast Inverse Design of Transonic Airfoils by Combining Deep Learning and Efficient Global Optimization. **2023**, 10, 125	0
126	Fine-tuning convolutional neural network based on relaxed Bayesian-optimized support vector machine for random-valued impulse noise removal. **2023**, 32,	0
125	Surrogate-Assisted Expensive Constrained Bi-Objective Optimization with Extremely Heterogeneous Evaluations.	0
124	Efficient parametric study of a stochastic airfoil system based on hybrid surrogate modeling with advanced automatic kriging construction. **2023**, 99, 104926	0
123	Multi-Fidelity Discrete Optimization via Simulation. **2022**,	0

122	Surrogate-assisted Multi-objective Optimization via Genetic Programming Based Symbolic Regression. **2023**, 176-190	0
121	Hyperparameter Tuning of Random Forests Using Radial Basis Function Models. **2023**, 309-324	0
120	GFlowNets for AI-Driven Scientific Discovery.	0
119	Gaussian Process Regression Models for Predicting Atomic Energies and Multipole Moments. **2023**, 19, 1370-1380	0
118	High-dimensional automated radiation therapy treatment planning via Bayesian optimization.	0
117	Bayesian optimization of the beam injection process into a storage ring. **2023**, 26,	0
116	Combining multi-fidelity modelling and asynchronous batch Bayesian Optimization. **2023**, 172, 108194	0
115	Design of a Crease Pattern for Pre-Folded Origami Structures to Improve Vehicle Crashworthiness.	0
114	An efficient interval moment method for uncertainty propagation analysis with non-parameterized probability-box.	0
113	Building Energy Model Calibration Using a Surrogate Neural Network. **2023**, 113057	0
112	Bayesian Optimization for automatic tuning of digital multi-loop PID controllers. **2023**, 173, 108211	0
111	Electric bus charging facility planning with uncertainties: Model formulation and algorithm design. **2023**, 150, 104108	0
110	Cable force optimization of cable-stayed bridges: A surrogate model-assisted differential evolution method combined with B-Spline interpolation curves. **2023**, 283, 115856	0
109	Surrogate-assisted finite element model updating for detecting scour depths in a continuous bridge. **2023**, 69, 101996	0
108	TOUCANS: A versatile Monte Carlo neutron transport code based on GEANT4. **2023**, 1051, 168190	0
107	Surrogate based optimisation of a pump mode startup sequence for a contra-rotating pump-turbine using a genetic algorithm and computational fluid dynamics. **2023**, 62, 106902	0
106	ET-AL: Entropy-targeted active learning for bias mitigation in materials data. **2023**, 10, 021403	0
105	Operation parameters multi-objective optimization method of large vertical mill based on CFD-DPM. **2023**, 34, 104014	1

104	An efficient structural reliability analysis method with active learning Kriging-assisted robust adaptive importance sampling. **2023**, 52, 711-722	0
103	Optimization of a double-intake squirrel cage fan using OpenFoam and metamodels. **2023**, 101, 109129	0
102	An adaptive Gaussian process based manifold transfer learning to expensive dynamic multi-objective optimization. **2023**, 538, 126212	0
101	Crack identification driven by the fusion of mechanism and data for the Variable-Cross-Section cantilever beam. **2023**, 196, 110320	0
100	Automatic performance tuning for Albany Land Ice. **2023**, 429, 115222	0
99	Convergence rate analysis for optimal computing budget allocation algorithms. **2023**, 153, 111042	0
98	A new active-learning estimation method for the failure probability of structural reliability based on Kriging model and simple penalty function. **2023**, 410, 116035	0
97	New perspective on reliability updating with equality information under line sampling. **2023**, 103, 102347	0
96	Performance-based optimization of nonlinear Friction-Folded PTMDs of structures subjected to stochastic excitation. **2023**, 195, 110291	0
95	Adaptive hyperball Kriging method for efficient reliability analysis. **2022**, 36,	0
94	A General Recipe for Automated Machine Learning in Practice. **2022**, 243-254	0
93	Statistical Model Selection for Seasonal Big Time Series Data. **2022**, 3043-3056	0
92	Bayesian optimization for congestion pricing problems: A general framework and its instability. **2023**, 169, 1-28	0
91	A Classification Method for Ranking and Selection with Covariates. **2022**,	0
90	Achieving Diversity in Objective Space for Sample-Efficient Search of Multiobjective Optimization Problems. **2022**,	0
89	An Empirical Review of Model-Based Adaptive Sampling for Global Optimization of Expensive Black-Box Functions. **2022**,	0
88	Object-Oriented Implementation and Parallelization of the Rapid Gaussian Markov Improvement Algorithm. **2022**,	0
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