

CITATION REPORT

List of articles citing

Comparison of Three Methods for Selecting Values of Input Variables in the Analysis of Output from a Computer Code

DOI: 10.1080/00401706.1979.10489755
Technometrics, 1979, 21, 239-245.

Source: <https://exaly.com/paper-pdf/14319694/citation-report.pdf>

Version: 2024-04-18

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

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

#	Paper	IF	Citations
2288	Emulation and Sensitivity Analysis of the Community Multiscale Air Quality Model for a UK Ozone Pollution Episode.		
2287	Evaluation of Mechanistic Models for Nitrate Removal in Woodchip Bioreactors.		
2286	Side-Chain Engineering of Conjugated Polymers: Distinguishing Its Impact on Film Morphology and Electronic Structure.		
2285	Amplifying Progress toward Multiple Development Goals through Resource Recovery from Sanitation.		
2284	Bayesian Inference of Aqueous Mineral Carbonation Kinetics for Carbon Capture and Utilization.		
2283	Small sample sensitivity analysis techniques for computer models.with an application to risk assessment. 1980 , 9, 1749-1842		492
2282	An Approach to Sensitivity Analysis of Computer Models: Part I Introduction, Input Variable Selection and Preliminary Variable Assessment. 1981 , 13, 174-183		361
2281	The safety of repositories for highly radioactive wastes. 1982 , 54, 269-310		29
2280	Sensitivity analysis of a model for the environmental movement of radionuclides. 1982 , 42, 565-84		9
2279	A distribution-free approach to inducing rank correlation among input variables. 1982 , 11, 311-334		963
2278	Uncertainty Analysis of First Order Decay Model. 1984 , 110, 131-140		6
2277	Discussion. <i>Technometrics</i> , 1984 , 26, 98-104	1.4	2
2276	Definition and properties of a coefficient of sensitivity for mathematical models. 1984 , 21, 149-159		7
2275	Modeling sediment and water column interactions for hydrophobic pollutants. Parameter discrimination and model response to input uncertainty. 1984 , 18, 1169-1174		19
2274	References. 1984 , 455-468		
2273	A Computer Aid for Risk and Other Policy Analysis. 1985 , 5, 195-208		24
2272	New Developments in Statistical Computing. 1985 , 39, 209-212		

2271	Sensitivity analysis of the asymptotic behavior of a model for the environmental movement of radionuclides. 1985 , 28, 243-278		30
2270	Uncertainty and Sensitivity Analysis of a Model for Multicomponent Aerosol Dynamics. 1986 , 73, 320-342		21
2269	Monte Carlo Estimation Under Different Distributions Using the Same Simulation. <i>Technometrics</i> , 1987 , 29, 153-160	1.4	42
2268	Process Modelling under Uncertainty: Simulation Analysis of Indian Steel. 1987 , 38, 115		
2267	A perspective on variance reduction in dynamic simulation experiments. 1987 , 16, 385-426		27
2266	Large Sample Properties of Simulations Using Latin Hypercube Sampling. <i>Technometrics</i> , 1987 , 29, 143-154		1105
2265	Uncertainty and Sensitivity Analysis of an Upper Plenum Test Problem for the MAEROS Aerosol Model. 1987 , 7, 199-216		1
2264	Human variability in susceptibility to toxic chemicals--a preliminary analysis of pharmacokinetic data from normal volunteers. 1987 , 7, 415-26		97
2263	A Matrix-Based Approach to Uncertainty and Sensitivity Analysis for Fault Trees1. 1987 , 7, 21-33		77
2262	Uses and abuses of statistical simulation. 1988 , 42, 53-68		12
2261	Integration formulas to evaluate functions of random variables. 1988 , 5, 267-284		81
2260	Latin hypercube sampling and the sensitivity analysis of a Monte Carlo epidemic model. 1988 , 23, 97-112		53
2259	Treatment of uncertainties in the performance assessment of geologic high-level radioactive waste repositories. 1988 , 20, 543-565		8
2258	An Investigation of Uncertainty and Sensitivity Analysis Techniques for Computer Models. 1988 , 8, 71-90		402
2257	Application of sensitivity and uncertainty analysis techniques to a photochemical ozone model. 1988 , 93, 5185		37
2256	Model Calibration Based on Random Environmental Fluctuations. 1988 , 114, 1136-1145		6
2255	Application of the Monte Carlo Method in the Performance Assessment of a Hypothetical HLW Repository in Salt. 1988 , 127, 589		
2254	Solving Stochastic Groundwater Problems using Sensitivity Theory and Hermite Interpolating Polynomials. 1988 , 179-184		1

2253	On Fly-by-Wire Control System and statistical analysis of system performance. 1989 , 53, 159-167		2
2252	Designs for Computer Experiments. <i>Technometrics</i> , 1989 , 31, 41-47	1.4	559
2251	Segmental Box Girder: Deflection Probability and Bayesian Updating. 1989 , 115, 2528-2547		25
2250	An uncertainty/sensitivity study for the station blackout sequence at a Mark I boiling water reactor. 1989 , 26, 293-328		7
2249	Using ecosystem models to predict regional CO2 exchange between the atmosphere and the terrestrial biosphere. 1989 , 3, 337-361		29
2248	Uncertainty and Sensitivity Analysis of a Dry Containment Test Problem for the MAEROS Aerosol Model. 1989 , 102, 22-42		11
2247	Techniques to Quantify the Sensitivity of Deterministic Model Uncertainties. 1989 , 101, 371-383		3
2246	A Methodology for Grouping Source Terms for Consequence Calculations in Probabilistic Risk Assessments. 1990 , 10, 507-520		6
2245	Software review. 1990 , 18, 87-93		3
2244	Membership-set estimation using random scanning and principal component analysis. 1990 , 32, 535-543		43
2243	Simulation of Stochastic Fields by Statistical Preconditioning. 1990 , 116, 268-287		69
2242	Descriptive Sampling: A Better Approach to Monte Carlo Simulation. 1990 , 41, 1133		2
2241	A gap dynamics simulation model of succession in a semiarid grassland. 1990 , 49, 229-266		108
2240	Evaluating the probability of violating dissolved oxygen standard. 1990 , 51, 193-204		11
2239	Uncertainty analysis for a linear programming model for acid rain abatement. 1991 , 25, 231-240		6
2238	Factorial Sampling Plans for Preliminary Computational Experiments. <i>Technometrics</i> , 1991 , 33, 161-174	1.4	2330
2237	The Repeatability of Uncertainty and Sensitivity Analyses for Complex Probabilistic Risk Assessments. 1991 , 11, 591-606		66
2236	Parametric yield optimization of CMOS analogue circuits by quadratic statistical circuit performance models. 1991 , 19, 579-592		10

2235	Transmutation and functional representation of heterogeneous landscapes. 1991 , 5, 239-253		44
2234	Approaches to scaling up physiologically based soil-plant models in space and time. 1991 , 9, 281-292		28
2233	.		13
2232	Integrated Assessment of Acid-Deposition Effects on Lake Acidification. 1992 , 118, 120-134		18
2231	Uncertainty and Reliability Analysis of Jacket Platform. 1992 , 118, 2699-2715		7
2230	Screening, Predicting, and Computer Experiments. <i>Technometrics</i> , 1992 , 34, 15	1.4	352
2229	Stochastic Computational Mechanics for Aerospace Structures. 1992 , 245-278		1
2228	Stochastic Modeling in Reservoir Simulation. 1992 , 7, 98-106		2
2227	Conceptual Structure of Performance Assessments Conducted for the Waste Isolation Pilot Plant. 1992 , 294, 885		
2226	Taguchi's Parameter Design: A Panel Discussion. <i>Technometrics</i> , 1992 , 34, 127-161	1.4	452
2225	. 1992 , 11, 361-372		72
2224	A Central Limit Theorem for Latin Hypercube Sampling. 1992 , 54, 541-551		25
2223	A stochastic damage model for the rupture prediction of a multi-phase solid. 1992 , 55, 341-361		9
2222	Probability of containment failure mode for fast pressure rise. 1992 , 35, 91-106		6
2221	A fast and accurate method for solving subsurface contaminant transport problems with a single uncertain parameter. 1992 , 15, 143-150		5
2220	Optimizing discrete event dynamic systems via the gradient surface method. 1992 , 2, 99-120		14
2219	OECD oil demand. 1993 , 15, 49-56		10
2218	Construction of complementary cumulative distribution functions for comparison with the EPA release limits for radioactive waste disposal. 1993 , 40, 277-293		24

2217	Spatial variability in subsurface flow and transport: a review. 1993 , 42, 293-316		8
2216	Uncertainty and sensitivity analysis techniques for use in performance assessment for radioactive waste disposal. 1993 , 42, 327-367		483
2215	The engineering statistician's guide to continuous bivariate distributions. 1993 , 40, 97-98		
2214	Combining mechanistic best-estimate analysis and level 1 probabilistic risk assessment. 1993 , 39, 89-108		9
2213	The uncertainty in forecasting trends of forest soil acidification. 1993 , 66, 29-58		27
2212	Uncertainty Associated with Semivariograms Used for Site Simulation. 1993 , 31, 725-734		23
2211	Optimization strategies in robust engineering design and computer-aided design. 1993 , 9, 39-48		8
2210	Risk assessment for shallow land burial of low level radioactive waste. 1993 , 13, 589-598		11
2209	Time-dependent system reliability analysis by adaptive importance sampling. 1993 , 12, 59-73		88
2208	Orthogonal Array-Based Latin Hypercubes. <i>Journal of the American Statistical Association</i> , 1993 , 88, 1392-1397	1.397	431
2207	Reliability-Based Service-Life Assessment of Aging Concrete Structures. 1993 , 119, 1600-1621		198
2206	Bayesian Design and Analysis of Computer Experiments: Use of Derivatives in Surface Prediction. <i>Technometrics</i> , 1993 , 35, 243-255	1.4	264
2205	Performance-constrained worst-case variability minimization of VLSI circuits. 1993 ,		3
2204	SENSITIVITY AND UNCERTAINTY OF PROCESS DESIGNS TO THERMODYNAMIC MODEL PARAMETERS: A MONTE CARLO APPROACH. 1993 , 124, 39-48		23
2203	Risk, Uncertainty in Risk, and the EPA Release Limits for Radioactive Waste Disposal. 1993 , 101, 18-39		52
2202	Uncertainty and Sensitivity Analysis Results Obtained in a Preliminary Performance Assessment for the Waste Isolation Pilot Plant. 1993 , 114, 286-331		46
2201	An intermediate-precision approximation of the inverse cumulative normal distribution. 1993 , 22, 797-801		2
2200	Parameter space exploration of an ocean general circulation model using an isopycnal mixing parameterization. 1994 , 52, 773-796		19

2199	A theorem for selecting oa-based latin hypercubes using a distance criterion. 1994 , 23, 2047-2058		13
2198	Galerkin Sampling Method for Stochastic Mechanics Problems. 1994 , 120, 1091-1106		25
2197	Experimental designs for simulation.		6
2196	. 1994 , 17, 15-21		4
2195	A review of techniques for parameter sensitivity analysis of environmental models. 1994 , 32, 135-54		1093
2194	SMOES: a simulation model for the Oosterschelde ecosystem. 1994 , 282-283, 453-474		29
2193	UNCSAM: a tool for automating sensitivity and uncertainty analysis. 1994 , 9, 1-11		46
2192	Optimal Latin-hypercube designs for computer experiments. <i>Journal of Statistical Planning and Inference</i> , 1994 , 39, 95-111	0.8	374
2191	Reliability modeling of flexible manufacturing systems. 1994 , 34, 1203-1220		6
2190	Risk-based environmental remediation: Decision framework and role of uncertainty. 1994 , 13, 1907-1915		44
2189	ESTIMATING THE PROBABILITY OF EXCEEDING GROUNDWATER QUALITY STANDARDS1. 1994 , 30, 623-629		
2188	Treatment of Uncertainty in Performance Assessments for Complex Systems. 1994 , 14, 483-511		206
2187	Arctic sea ice variability: Model sensitivities and a multidecadal simulation. 1994 , 99, 919		42
2186	Uncertainty analysis applied to supervised control of aphids and brown rust in winter wheat. Part 1. Quantification of uncertainty in cost-benefit calculations. 1994 , 44, 419-448		14
2185	Controlling Correlations in Latin Hypercube Samples. <i>Journal of the American Statistical Association</i> , 1994 , 89, 1517-1522	2.8	159
2184	Sensitivity and Uncertainty Analysis of Complex Models of Disease Transmission: An HIV Model, as an Example. 1994 , 62, 229		718
2183	An uncertainty analysis of the process-based growth model FORGRO. 1994 , 69, 157-166		12
2182	.		3

2181	Reply. <i>Technometrics</i> , 1994 , 36, 156-161	1.4
2180	[The Use of Conditional Simulation in Nuclear-Waste-Site Performance Assessment]: Reply. <i>Technometrics</i> , 1994 , 36, 156	1.4
2179	Correlation-induction techniques for estimating quantiles in simulation experiments.	2
2178	Obtaining minimum-correlation Latin Hypercube Sampling plans using an IP-based heuristic. 1995 , 17, 139-148	8
2177	A comparison of model and observed network estimates of sulphur deposition across Great Britain for 1990 and its likely source attribution. 1995 , 121, 1387-1411	25
2176	Updating Uncertainty in an Integrated Risk Assessment: Conceptual Framework and Methods. 1995 , 15, 719-729	66
2175	Exploratory designs for computational experiments. <i>Journal of Statistical Planning and Inference</i> , 1995 , 43, 381-402	0.8 692
2174	Robustness of an uncertainty and sensitivity analysis of early exposure results with the MACCS reactor accident consequence model. 1995 , 48, 129-148	25
2173	Uncertainty and sensitivity analysis of early exposure results with the MACCS reactor accident consequence model. 1995 , 48, 91-127	20
2172	Uncertainty and sensitivity analysis of chronic exposure results with the MACCS reactor accident consequence model. 1995 , 50, 137-177	12
2171	Effect of alternative conceptual models in a preliminary performance assessment for the waste isolation pilot plant. 1995 , 154, 251-344	34
2170	Surrogates for numerical simulations; optimization of eddy-promoter heat exchangers. 1995 , 121, 231-257	31
2169	Designing Outer Array Points. 1995 , 27, 226-241	13
2168	Uncertainty in the National Energy Modeling System. I: Method Development. 1995 , 121, 108-124	2
2167	Performance driven global routing and wiring rule generation for high speed PCBs and MCMs. 1995 , 121, 108-124	0
2166	Use of Sobol's Quasirandom Sequence Generator for Integration of Modified Uncertainty Importance Measure. 1995 , 32, 1164-1173	20
2165	Sensitivity analysis of solute transport in fractured porous media. 1995 , 22, 1433-1436	14
2164	Distribution and moments of the weighted sum of uniforms random variables, with applications in reducing monte carlo simulations. 1995 , 52, 399-414	28

2163	Effective Soil Water Characteristics and Ensemble Soil Water Profiles in Heterogeneous Soils. <i>Water Resources Research</i> , 1996 , 32, 1993-2002	5-4	44
2162	Bayesian-Validated Surrogates for Noisy Computer Simulations; Application to Random Media. 1996 , 17, 973-992		10
2161	Sensitivity of shallow convective precipitation induced by land surface heterogeneities to dynamical and cloud microphysical parameters. 1996 , 101, 7477-7497		19
2160	Global uncertainty analysis of a regional-scale gas-phase chemical mechanism. 1996 , 101, 9107-9119		43
2159	Analytical-experimental comparison of probabilistic methods and fuzzy sets for designing under uncertainty. 1996 ,		3
2158	Hierarchy based statistical fault simulation of mixed-signal ICs.		21
2157	The consequences of uncertainty for the prediction of the effects of schistosomiasis control programmes. 1996 , 117, 537-50		13
2156	28 Model robust designs. 1996 , 13, 1055-1098		6
2155	A surrogate approach to the experimental optimization of multielement airfoils. 1996 ,		8
2154	9 Computer experiments. 1996 , 261-308		250
2153	Preliminary Performance Assessment of the Engineered Barriers for a Low- and Intermediate-Level Radioactive Waste Repository. 1996 , 116, 115-126		3
2152	Efficient bootstrap methods: A review. 1996 , 5, 99-127		1
2151	Variance reduction algorithms for parallel replicated simulation of uniformized Markov chains. 1996 , 6, 159-180		10
2150	A Bayesian approach for incorporating uncertainty and data worth in environmental projects. 1996 , 1, 151-158		19
2149	Uncertainty and sensitivity analysis of a postexperiment simulation of nonexplosive melt-water interaction. 1996 , 13, 98-116		18
2148	Uncertainty and sensitivity analysis results obtained in the 1992 performance assessment for the waste isolation pilot plant. 1996 , 51, 53-100		33
2147	Uncertainty and sensitivity analysis for gas and brine migration at the Waste Isolation Pilot Plant: Permeable shaft with panel seals. 1996 , 45, 107-139		5
2146	Efficient uncertainty analyses using fast probability integration. 1996 , 166, 225-248		23

2145	Probability, conditional probability and complementary cumulative distribution functions in performance assessment for radioactive waste disposal. 1996 , 54, 145-163			22
2144	The risk of sea level rise. 1996 , 33, 151-212			73
2143	Uncertainty in economic models of climate-change impacts. 1996 , 33, 213-234			25
2142	Variance-Based Importance Analysis Applied to a Complex Probabilistic Performance Assessment. 1996 , 16, 587-598			8
2141	A Monte Carlo procedure for the construction of complementary cumulative distribution functions for comparison with the EPA release limits for radioactive waste disposal. 1996 , 16, 43-55			18
2140	Subsurface Stormflow Modeling with Sensitivity Analysis Using a Latin-Hypercube Sampling Technique. 1996 , 34, 811-818			34
2139	Transmission dynamics and epidemiology of BSE in British cattle. 1996 , 382, 779-88			458
2138	Incorporating Monte Carlo Simulation into Physiologically Based Pharmacokinetic Models Using Advanced Continuous Simulation Language (ACSL): A Computational Method. 1996 , 31, 19-28			4
2137	Response to James M. Lucas. <i>Technometrics</i> , 1996 , 38, 199-203	1.4	5	
2136	Computational structure of a performance assessment involving stochastic and subjective uncertainty. 1996 ,			2
2135	Sensitivity analysis of model output. 1997 ,			49
2134	Uncertainty and sensitivity analysis of the basic reproductive rate. Tuberculosis as an example. 1997 , 145, 1127-37			183
2133	Statistical Issues in Geometric Feature Inspection Using Coordinate Measuring Machines. <i>Technometrics</i> , 1997 , 39, 3	1.4	51	
2132	Enhanced Monte Carlo Estimates for American Option Prices. 1997 , 5, 25-44			51
2131	Bibliography. 1997 , 555-567			
2130	Modelling the Nonlinear Pharmacokinetics of Tissue-Type Plasminogen Activator in Three Animal Species. 1997 , 30, 147-152			
2129	Efficient average quality index estimation of integrated circuits by modified Latin hypercube sampling Monte Carlo (MLHSMC).			6
2128	Identification of the important parameters in thermal building simulation models. 1997 , 57, 305-320			17

2127	Statistical Issues in Geometric Feature Inspection Using Coordinate Measuring Machines. <i>Technometrics</i> , 1997 , 39, 3-17	1.4	44
2126	The epidemiology of BSE in cattle herds in Great Britain. II. Model construction and analysis of transmission dynamics. 1997 , 352, 803-38		97
2125	Latin Hypercube Sampling Monte Carlo Estimation of Average Quality Index for Integrated Circuits. 1997 , 131-142		3
2124	An efficient method for parametric uncertainty analysis of numerical geophysical models. 1997 , 102, 21925-21932		245
2123	The effect of uncertainties in kinetic and photochemical data on model predictions of stratospheric ozone depletion. 1997 , 102, 25537-25542		15
2122	A sequential uncertainty domain inverse procedure for estimating subsurface flow and transport parameters. <i>Water Resources Research</i> , 1997 , 33, 1879-1892	5.4	133
2121	Monte Carlo Variance of Scrambled Net Quadrature. 1997 , 34, 1884-1910		184
2120	On the usefulness of overparameterized ecological models. 1997 , 95, 289-299		124
2119	Analytical Methodology for Design and Performance Assessment of Run-Off-Road Collision Avoidance Systems. 1997 ,		0
2118	Statistical Quantification of the Sources of Variance in Uncertainty Analyses. 1997 , 17, 447-453		3
2117	Comments on an evaluation of the 1992 performance assessment for the Waste Isolation Pilot Plant. 1997 , 168, 339-360		3
2116	Costs and benefits of improving tuberculosis control: the case of Thailand. 1997 , 44, 1805-16		25
2115	Uncertainty and sensitivity analysis in the presence of stochastic and subjective uncertainty. 1997 , 57, 3-76		246
2114	Latin Hypercube Sampling Monte Carlo Estimation of Average Quality Index for Integrated Circuits. 1997 , 14, 131-142		25
2113	Analytical-experimental comparison of probabilistic methods and fuzzy set based methods for designing under uncertainty. 1997 , 13, 69-80		16
2112	Conceptual basis of a systems prioritization methodology for the Waste Isolation Pilot Plant. 1997 , 57, 203-222		9
2111	Computational implementation of a systems prioritization methodology for the Waste Isolation Pilot Plant: a preliminary example. 1997 , 57, 223-266		8
2110	Uncertainty and sensitivity analysis for gas and brine migration at the Waste Isolation Pilot Plant: permeable shaft without panel seals. 1997 , 57, 299-316		5

2109	Bayesian-validated computer-simulation surrogates for optimization and design: Error estimates and applications. 1997 , 44, 347-367		11
2108	A state-of-the-art report on computational stochastic mechanics. 1997 , 12, 197-321		307
2107	Monte Carlo methods for security pricing. 1997 , 21, 1267-1321		438
2106	Estimating the integral of a squared regression function with Latin hypercube sampling. 1997 , 31, 339-349		2
2105	Efficient Global Optimization of Expensive Black-Box Functions. 1998 , 13, 455-492		3676
2104	Predicting and preventing the emergence of antiviral drug resistance in HSV-2. 1998 , 4, 673-8		92
2103	Constructing partial prior specifications for models of complex physical systems. 1998 , 47, 37-53		40
2102	Coupling 1D Monte-Carlo simulations and geostatistics to assess groundwater vulnerability to pesticide contamination on a regional scale. 1998 , 32, 25-39		35
2101	. 1998 , 45, 634-642		4
2100	Nonlinear pharmacokinetics of tissue-type plasminogen activator in three animal species: a comparison of mathematical models. 1998 , 19, 131-40		14
2099	Using an approximation of the three-point Gauss-Hermite quadrature formula for model prediction and quantification of uncertainty. 1998 , 6, 457-468		5
2098	Direct spectroscopic speciation of schoepite-aqueous phase equilibria. 1998 , 232, 179-190		12
2097	Nuclear fuel cycle cost analysis using a probabilistic simulation technique. 1998 , 25, 771-789		4
2096	Quantifying the intrinsic transmission dynamics of tuberculosis. 1998 , 54, 117-32		83
2095	Epidemiological determinants of the pattern and magnitude of the vCJD epidemic in Great Britain. 1998 , 265, 2443-52		63
2094	A new two-step stochastic modeling approach: Application to water transport in a spatially variable unsaturated soil. <i>Water Resources Research</i> , 1998 , 34, 1909-1918	5-4	15
2093	Orthogonal Column Latin Hypercubes and Their Application in Computer Experiments. <i>Journal of the American Statistical Association</i> , 1998 , 93, 1430-1439	2.8	248
2092	Latin supercube sampling for very high-dimensional simulations. 1998 , 8, 71-102		160

2091	Design and analysis of computer experiments. 1998 ,		30
2090	Stochastic and Subjective Uncertainty in the Assessment of Radiation Exposure at the Waste Isolation Pilot Plant. 1998 , 4, 469-526		14
2089	Monte Carlo extension of quasi-Monte Carlo.		20
2088	Uncertainties in Dose Coefficients for Systemic Plutonium. 1998 , 78, 121-126		1
2087	Correlation-Induction Techniques for Estimating Quantiles in Simulation Experiments. 1998 , 46, 574-591		58
2086	Preventive therapy for tuberculosis in HIV-infected persons: analysis of policy options based on tuberculin status and CD4+ cell count. Gruppo Italiano di Studio Tubercolosi e AIDS (GISTA). 1998 , 158, 2112-21		5
2085	Modeling bronchial circulation with application to soluble gas exchange: description and sensitivity analysis. 1998 , 84, 2070-88		28
2084	Comparison of empirical strategies to maximize GENEHUNTER lod scores. 1999 , 17 Suppl 1, S103-8		4
2083	Robust optimization of total joint replacements incorporating environmental variables. 1999 , 121, 304-10		18
2082	Sensitivity Analysis of Computer Models: World Bank HDM-III Model. 1999 , 125, 421-428		19
2081	Fast optimization of mechanical designs using computer aided design/computer aided engineering emulation: A case study. 1999 , 213, 27-35		9
2080	Stochastic Modeling of Exposure and Risk in a Contaminated Heterogeneous Aquifer. 2: Application of Latin Hypercube Sampling. 1999 , 16, 329-343		11
2079	Statistical Analysis of Chemical Release Rates from Soils. 1999 , 8, 541-558		9
2078	Multicriterion Decision Merging: Competitive Development of an Aboriginal Whaling Management Procedure. <i>Journal of the American Statistical Association</i> , 1999 , 94, 1003-1014	2.8	4
2077	Stochastic analysis of isothermal cure of resin systems. 1999 , 20, 72-85		22
2076	Failure sensitivity analysis of engineering structures. <i>Computers and Structures</i> , 1999 , 72, 525-534	4.5	2
2075	Statistical analyses of scatterplots to identify important factors in large-scale simulations, 2: robustness of techniques. 1999 , 65, 187-197		29
2074	Statistical analyses of scatterplots to identify important factors in large-scale simulations, 1: Review and comparison of techniques. 1999 , 65, 147-185		109

2073	A rigorous framework for optimization of expensive functions by surrogates. 1999 , 17, 1-13	623
2072	Asymptotically Optimal Importance Sampling and Stratification for Pricing Path-Dependent Options. 1999 , 9, 117-152	133
2071	Historical Relationship Between Performance Assessment for Radioactive Waste Disposal and Other Types of Risk Assessment. 1999 , 19, 763-807	79
2070	Analysis of variance designs for model output. 1999 , 117, 35-43	329
2069	Uncertainty and sensitivity analysis in performance assessment for the Waste Isolation Pilot Plant. 1999 , 117, 156-180	42
2068	Performance assessment in support of the 1996 compliance certification application for the Waste Isolation Pilot Plant. 1999 , 19, 959-86; discussion 987-93	6
2067	Historical relationship between performance assessment for radioactive waste disposal and other types of risk assessment. 1999 , 19, 763-807	22
2066	Modified Latin Hypercube Sampling Monte Carlo (MLHSMC) Estimation for Average Quality Index. 1999 , 19, 87-98	21
2065	A simulation model for studying the role of pre-slaughter factors on the exposure of beef carcasses to human microbial hazards. 1999 , 41, 37-54	16
2064	Response surface analysis of two-stage stochastic linear programming with recourse. 1999 , 46, 753-776	18
2063	Uncertainty Analysis of Reservoir Sedimentation. 1999 , 125, 339-350	51
2062	Intra-field effects on device and circuit manufacturability: a statistical simulation approach. 1999 , 12, 437-451	1
2061	Parametric manufacturing yield modeling of GaAs/AlGaAs multiple quantum well avalanche photodiodes. 1999 , 12, 238-251	6
2060	Evaluating biological significance of chemical exposure to fish using a bioenergetics-based stressor-response model. 1999 , 56, 823-829	29
2059	A comparison of techniques for the estimation of model prediction uncertainty. 1999 , 115, 45-59	154
2058	A Monte Carlo uncertainty analysis of ozone trend predictions in a two-dimensional model. 1999 , 104, 1749-1765	10
2057	Cad For Manufacturability of Integrated Circuits. 1999 ,	
2056	Criticality Safety Assessment for a Conceptual High-Level-Waste Repository in Water-Saturated Geologic Media. 1999 , 126, 303-318	5

2055	Uncertainty Analysis in DUPIC Fuel-Cycle Cost Using a Probabilistic Simulation Method. 1999 , 127, 123-140	6
2054	Optimal design of a PZT bimorph actuator for minimally invasive surgery. 2000 , 3984, 321	3
2053	Regression Dynamic Programming for Multiple-Reservoir Control. 2000 , 1	
2052	Three Technometrics Experimental Design Classics. <i>Technometrics</i> , 2000 , 42, 26-27	1.4 10
2051	Techniques Applied in the COSYMA Accident Consequence Uncertainty Analysis. 2000 , 90, 317-323	2
2050	On Reduction of Finite-Sample Variance by Extended Latin Hypercube Sampling. 2000 , 6, 1035	5
2049	Dynamic reliability: towards an integrated platform for probabilistic risk assessment. 2000 , 68, 219-254	133
2048	Summary discussion of the 1996 performance assessment for the Waste Isolation Pilot Plant. 2000 , 69, 437-451	20
2047	Historical background on performance assessment for the Waste Isolation Pilot Plant. 2000 , 69, 5-46	48
2046	Conceptual structure of the 1996 performance assessment for the Waste Isolation Pilot Plant. 2000 , 69, 151-165	51
2045	Characterization of stochastic uncertainty in the 1996 performance assessment for the Waste Isolation Pilot Plant. 2000 , 69, 167-189	30
2044	Characterization of subjective uncertainty in the 1996 performance assessment for the Waste Isolation Pilot Plant. 2000 , 69, 191-204	49
2043	Direct releases to the surface and associated complementary cumulative distribution functions in the 1996 performance assessment for the Waste Isolation Pilot Plant: cuttings, cavings and spillings. 2000 , 69, 305-330	23
2042	Direct releases to the surface and associated complementary cumulative distribution functions in the 1996 performance assessment for the Waste Isolation Pilot Plant: direct brine release. 2000 , 69, 343-367	19
2041	Radionuclide transport in the vicinity of the repository and associated complementary cumulative distribution functions in the 1996 performance assessment for the Waste Isolation Pilot Plant. 2000 , 69, 369-396	23
2040	Radionuclide and colloid transport in the Culebra Dolomite and associated complementary cumulative distribution functions in the 1996 performance assessment for the Waste Isolation Pilot Plant. 2000 , 69, 397-420	20
2039	Algorithmic construction of optimal symmetric Latin hypercube designs. <i>Journal of Statistical Planning and Inference</i> , 2000 , 90, 145-159	0.8 294
2038	Sensitivity Analysis of Three-Dimensional Steady-State and Transient Spray Irrigation Models. 2000 , 38, 20-28	5

2037	Sensitivity and uncertainty analysis in spatial modelling based on GIS. 2000 , 81, 71-79	173
2036	A Methodology for Quantifying Uncertainty in Climate Projections. 2000 , 46, 417-446	37
2035	Winding Stairs: A sampling tool to compute sensitivity indices. 2000 , 10, 187-196	47
2034	Ground motion prediction with the empirical Green's function technique: an assessment of uncertainties and confidence level. 2000 , 4, 59-77	25
2033	Surrogate Modeling-Based Optimization for the Integration of Static and Dynamic Data Into a Reservoir Description. 2000 ,	13
2032	Aggravation of licensing procedures by doubtful thermodynamic data. 2000 , 368, 561-6	13
2031	ROOT ZONE WATER QUALITY MODEL SENSITIVITY ANALYSIS USING MONTE CARLO SIMULATION. 2000 , 43, 883-895	66
2030	Assessing linearity in high dimensions. 2000 , 28, 1	18
2029	A rainfall simulation model for agricultural development in Bangladesh. 2000 , 5, 1-7	7
2028	Monte-Carlo and Quasi-Monte Carlo Methods 1998. 2000 ,	9
2027	Validation, uncertainty and sensitivity analysis of crop growth simulation model for Barind in Bangladesh. 2000 , 3, 109-122	
2026	Impact of antivirals and emergence of drug resistance: HSV-2 epidemic control. 2000 , 14, 133-42	19
2025	Probabilistic Nonlocal Theory for Quasibrittle Fracture Initiation and Size Effect. II: Application. 2000 , 126, 175-185	37
2024	Feed-borne transmission and case clustering of BSE. 2000 , 267, 205-15	14
2023	Assessment of the prevalence of vCJD through testing tonsils and appendices for abnormal prion protein. 2000 , 267, 23-9	26
2022	Model For Rainfall Excess Patterns on Randomly Heterogeneous Areas. 2000 , 5, 355-362	67
2021	Implementation of a trust region model management strategy in the DAKOTA optimization toolkit. 2000 ,	47
2020	Human T-cell lymphotropic virus testing of blood donors in Norway: a cost-effect model. 2000 , 29, 1076-84	32

2019	Scaling-up crop models for climate variability applications. 2000 , 65, 43-72		211
2018	Risk analysis using stochastic reliability methods applied to two cases of deterministic water quality models. 2000 , 34, 153-170		20
2017	Priority assessment of toxic substances in life cycle assessment. Part II: assessing parameter uncertainty and human variability in the calculation of toxicity potentials. 2000 , 41, 575-88		53
2016	A geostatistical extension of the sectioning procedure for disaggregating soil information to the scale of functional models of soil processes. 2000 , 95, 89-112		12
2015	Modeling and simulation uncertainty in multidisciplinary design optimization. 2000 ,		34
2014	Using simulation for option pricing.		3
2013	Uniform Design: Theory and Application. <i>Technometrics</i> , 2000 , 42, 237-248	1.4	600
2012	The Level-Based Stratified Sampling Plan. <i>Journal of the American Statistical Association</i> , 2000 , 95, 1185-1191	1.4	2
2011	Three "Technometrics" Experimental Design Classics. <i>Technometrics</i> , 2000 , 42, 26	1.4	12
2010	On the Edge: Statistics & Computing. 2001 , 14, 47-52		2
2009	FIELD VALIDATION AND SENSITIVITY ANALYSIS OF A MECHANISTIC MODEL FOR TREE SEED DISPERSAL BY WIND. 2001 , 82, 374-388		165
2008	Distributed hypercube sampling algorithm. 2001 ,		5
2007	Assessment of Stochastic Signal Optimization Method Using Microsimulation. 2001 , 1748, 40-45		26
2006	A Bayesian Approach to the quantification of the effect of model error on the predictions of groundwater models. <i>Water Resources Research</i> , 2001 , 37, 2309-2322	5.4	46
2005	In vivo control of soluble guanylate cyclase activation by nitric oxide: a kinetic analysis. 2001 , 80, 2110-9		69
2004	Evaluating the probability of exceeding a site-specific soil cadmium contamination threshold. 2001 , 102, 75-100		134
2003	Geostatistical modelling of uncertainty in soil science. 2001 , 103, 3-26		385
2002	Monte Carlo analysis of uncertainty attached to microbial pollutant degradation rates. 2001 , 35, 3924-30		20

2001	ADAPTIVE RESPONSE SURFACE METHOD - A GLOBAL OPTIMIZATION SCHEME FOR APPROXIMATION-BASED DESIGN PROBLEMS. 2001 , 33, 707-733		186
2000	SUPRA-BAYESIAN POOLING OF PRIORS LINKED BY A DETERMINISTIC SIMULATION MODEL. 2001 , 30, 447-476		16
1999	Monte Carlo Methods for Security Pricing. 185-238		4
1998	Identifiability and uncertainty analysis of the River Water Quality Model No. 1 (RWQM1). 2001 , 43, 329-338		59
1997	Microscopic modeling of NO and S-nitrosoglutathione kinetics and transport in human airways. 2001 , 90, 777-88		25
1996	A sensitivity analysis of the prediction of the nitrogen fertilizer requirement of cauliflower crops using the HRI WELL_N computer model. 2001 , 137, 55-69		7
1995	Design and analysis of robust total joint replacements: finite element model experiments with environmental variables. 2001 , 123, 239-46		47
1994	Surrogate Modeling-Based Optimization of SAGD Processes. 2001 ,		11
1993	Statistical design and analysis of computer experiments for the generation of parsimonious metamodels. 2001 ,		1
1992	Comparative studies of metamodelling techniques under multiple modelling criteria. 2001 , 23, 1-13		1068
1991	Factor analysis with (mixed) observed and latent variables in the exponential family. 2001 , 66, 515-530		46
1990	A comparison of random and quasirandom points for nonparametric response surface design. 2001 , 53, 129-142		6
1989	A statistical method for tuning a computer code to a data base. <i>Computational Statistics and Data Analysis</i> , 2001 , 37, 77-92	1.6	26
1988	Rotation designs for experiments in high-bias situations. <i>Journal of Statistical Planning and Inference</i> , 2001 , 97, 399-414	0.8	11
1987	Wrap-Around L2-Discrepancy of Random Sampling, Latin Hypercube and Uniform Designs. 2001 , 17, 608-624		38
1986	Uncertainty and sensitivity analysis: tools for GIS-based model implementation. 2001 , 15, 415-437		205
1985	Uncertainty Analysis of Radionuclide Transport in a Fractured Coastal Aquifer with Geothermal Effects. 2001 , 43, 107-136		8
1984	A Minimum Bias Latin Hypercube Design. 2001 , 33, 793-808		1

1983	Risk Management for Petroleum Reservoir Production: A Simulation-Based Study of Prediction. 2001 , 5, 173-197	11
1982	Behavioral characterization: finding and using the influential factors in software process simulation models. 2001 , 59, 259-270	13
1981	Bayesian calibration of computer models. 2001 , 63, 425-464	2164
1980	Stochastic economic variables and their effect on net returns to channel catfish production. 2001 , 5, 15-36	11
1979	Uncertainty in Coupled Nonpoint Source and Stream Water-Quality Models. 2001 , 127, 403-413	39
1978	Effect of turbulence on feeding of larval fishes: a sensitivity analysis using an individual-based model. 2001 , 58, 1015-1029	33
1977	Recent Advances in Randomized Quasi-Monte Carlo Methods. 2002 , 419-474	97
1976	Elements of Computational Statistics. 2002 ,	1
1975	Battery Management Systems. 2002 ,	86
1974	Uncertainty Quantification for Multiscale Simulations ¹ . 2002 , 124, 29-41	30
1973	On Sequential Sampling for Global Metamodeling in Engineering Design. 2002 , 539	139
1972	Sensitive Micro Data Protection Using Latin Hypercube Sampling Technique. <i>Lecture Notes in Computer Science</i> , 2002 , 117-125	0.9 16
1971	References. 211-216	
1970	Uncertainties in dose coefficients for intakes of tritiated water and organically bound forms of tritium by members of the public. 2002 , 98, 299-311	41
1969	Model Validation via Uncertainty Propagation Using Response Surface Models. 2002 , 981	3
1968	Recent Advances in Industrial Experimentations. 2002 , 52, 47-70	
1967	Mapping the probability of exceeding critical thresholds for cadmium concentrations in soils in The Netherlands. 2002 , 31, 1875-84	51
1966	Sensitivity and first-step uncertainty analyses for the preferential flow model MACRO. 2002 , 31, 227-40	52

1965	The ergonomic design of workstations using virtual manufacturing and response surface methodology. 2002 , 34, 375-391		39
1964	Uncertainty in Nonpoint Source Pollution Models and Associated Risks. 2002 , 3, 179-189		13
1963	Some Applications of Quasi-Monte Carlo Methods in Statistics. 2002 , 10-26		4
1962	Modeling density-driven flow and radionuclide transport at an underground nuclear test: Uncertainty analysis and effect of parameter correlation. <i>Water Resources Research</i> , 2002 , 38, 17-1-17-17 ^{5.4}		17
1961	Testing of an Algorithm for Calculating Confidence Intervals on Latin Hypercube Probabilities. 2002 ,		
1960	Use of Discrepancy Sensitivity in Uncertainty Quantification and Optimization. 2002 ,		
1959	Adaptive Response Surface Method for Thermal Optimization: Application to Aircraft Engine Cooling System. 2002 ,		4
1958	Use of data sampling, surrogate models, and numerical optimization in engineering design. 2002 ,		17
1957	Robust Structural Design of an Active Aeroelastic Wing with Maneuver Load Uncertainty. 2002 ,		0
1956	Inference Control in Statistical Databases. <i>Lecture Notes in Computer Science</i> , 2002 ,	0.9	22
1955	Evolution-based design of neural fuzzy networks using self-adapting genetic parameters. 2002 , 10, 211-221		25
1954	Modeling Uncertainty. 2002 ,		2
1953	Genetic Algorithms Principles and Perspectives. 2002 ,		182
1952	An Efficient Sampling Technique for Bayesian Inference With Computationally Demanding Models. <i>Technometrics</i> , 2002 , 44, 318-327	1.4	25
1951	Measuring the Goodness of Orthogonal Array Discretizations for Stochastic Programming and Stochastic Dynamic Programming. 2002 , 12, 322-344		23
1950	Free nitric oxide diffusion in the bronchial microcirculation. 2002 , 283, H2660-70		9
1949	Assessment of uncertainty and risk in modeling regional heavy-metal accumulation in agricultural soils. 2002 , 31, 175-87		41
1948	. 2002 ,		63

1947	Using Monte Carlo techniques to judge model prediction accuracy: Validation of the pesticide root zone model 3.12. 2002 , 21, 1570-1577		26
1946	Conditioning of convex piecewise linear stochastic programs. 2002 , 94, 1-19		45
1945	The use of a reduced form model to assess the sensitivity of a land surface model to biotic surface parameters. 2002 , 19, 455-466		15
1944	Error and uncertainty in modeling and simulation. 2002 , 75, 333-357		330
1943	Assessing hurricane effects. Part 1. Sensitivity analysis. 2002 , 78, 131-145		27
1942	A domain knowledge based search advisor for design problem solving environments. 2002 , 15, 105-116		29
1941	Uncertainty analysis for pedotransfer functions. 2002 , 53, 417-429		59
1940	Surrogate modeling-based optimization of SAGD processes. <i>Journal of Petroleum Science and Engineering</i> , 2002 , 35, 83-93	4-4	61
1939	Surrogate modeling-based optimization for the integration of static and dynamic data into a reservoir description. <i>Journal of Petroleum Science and Engineering</i> , 2002 , 35, 167-181	4-4	24
1938	Estimation of input parameters in complex simulation using a Gaussian process metamodel. 2002 , 17, 219-225		8
1937	Geostatistics and Bayesian updating for transmissivity estimation in a multiaquifer system in Manitoba, Canada. 2002 , 40, 273-83		14
1936	Circuit optimization via sequential computer experiments: design of an output buffer. 2002 , 47, 31-48		13
1935	Illustration of sampling-based methods for uncertainty and sensitivity analysis. 2002 , 22, 591-622		212
1934	Design and analysis of computer experiments when the output is highly correlated over the input space. 2002 , 30, 109-126		35
1933	The ergonomic design of workstations using virtual manufacturing and response surface methodology. 2002 , 34, 375-391		5
1932	Design of Computer Experiments for Metamodel Generation. 2002 , 32, 7-16		34
1931	Metamodeling Approach to Optimization of Steady-State Flowsheet Simulations. 2002 , 80, 760-772		45
1930	The use of metamodeling techniques for optimization under uncertainty. 2003 , 25, 99-116		221

1929	Seismic fragility assessment of concrete gravity dams. 2003 , 32, 2221-2240		94
1928	Uncertainty quantification in reacting-flow simulations through non-intrusive spectral projection. <i>Combustion and Flame</i> , 2003 , 132, 545-555	5.3	250
1927	Robust parameter estimation techniques for stochastic within-host macroparasite models. <i>Journal of Theoretical Biology</i> , 2003 , 225, 419-30	2.3	17
1926	Probabilistic simulation of fire scenarios. 2003 , 224, 301-311		50
1925	On Latin hypercube sampling for structural reliability analysis. 2003 , 25, 47-68		391
1924	A note on construction of nearly uniform designs with large number of runs. 2003 , 61, 215-224		25
1923	Short-term robustness of production management systems: A case study. 2003 , 148, 452-465		40
1922	Application of classification trees in the sensitivity analysis of probabilistic model results. 2003 , 79, 123-129		25
1921	A distribution-free test for the relationship between model input and output when using Latin hypercube sampling. 2003 , 79, 333-339		28
1920	Latin hypercube sampling and the propagation of uncertainty in analyses of complex systems. 2003 , 81, 23-69		1304
1919	Demography and management of the invasive plant species <i>Hypericum perforatum</i> . II. Construction and use of an individual-based model to predict population dynamics and the effects of management strategies. 2003 , 40, 494-507		60
1918	An experimental design criterion for minimizing meta-model prediction errors applied to die casting process design. 2003 , 52, 103-117		28
1917	Wing Optimization Using Design of Experiment, Response Surface, and Data Fusion Methods. 2003 , 40, 741-750		105
1916	Adaptive Response Surface Method Using Inherited Latin Hypercube Design Points. 2003 , 125, 210-220		342
1915	Polynomial Chaos Expansion with Latin Hypercube Sampling for Predicting Response Variability. 2003 ,		1
1914	Evaluating uncertainty in environmental life-cycle assessment. A case study comparing two insulation options for a Dutch one-family dwelling. 2003 , 37, 2600-8		245
1913	Latin hypercube lattice sample selection strategy for correlated random hydraulic conductivity fields. <i>Water Resources Research</i> , 2003 , 39,	5.4	34
1912	Greener by design. 2003 , 37, 5432-44		23

1911	Risk-based modelling of surface water quality: a case study of the Charles River, Massachusetts. <i>Journal of Hydrology</i> , 2003 , 274, 225-247	6	32
1910	Modelling nitrogen and oxygen isotope fractionation during denitrification in a lacustrine redox-transition zone. 2003 , 67, 2529-2542		167
1909	Optimal orthogonal-array-based latin hypercubes. 2003 , 30, 585-598		69
1908	IUTAM Symposium on Nonlinear Stochastic Dynamics. 2003 ,		2
1907	Overview of Modern Design of Experiments Methods for Computational Simulations (Invited). 2003 ,		161
1906	Identification of Elastic Properties of Composite Laminates. 2003 , 10, 335-352		19
1905	Simple Latin Square Sampling \hat{c}_k Designs. 2003 , 32, 215-237		4
1904	A Coupled Approach to Developing Damage Prognosis Solutions. 2003 , 245-246, 289-306		1
1903	A Study on the Use of Kriging Models to Approximate Deterministic Computer Models. 2003 , 567		37
1902	Could Condoms Stop the AIDS Epidemic?. 2003 , 5, 171-181		24
1901	Monte Carlo Methods in Financial Engineering. 2003 ,		688
1900	Ch. 2. Industrial experimentation for screening. 2003 , 22, 33-73		5
1899	Uncertainty Analysis of Hydrologic and Water Quality Predictions for a Small Watershed Using SWAT2000. 2003 , 4, 229-238		33
1898	Probabilistic Error Bounds for Simulation Quantile Estimators. 2003 , 49, 230-246		35
1897	Random Number Generation and Monte Carlo Methods. 2003 ,		5
1896	Chapter 12 Mathematical and numerical approaches in performance assessment for radioactive waste disposal: dealing with uncertainty. 2003 , 4, 353-390		16
1895	Ch. 7. A review of design and modeling in computer experiments. 2003 , 231-261		36
1894	The Design and Analysis of Computer Experiments. 2003 ,		1203

1893	Developing a Probabilistic Flood Plain Boundary Using HEC-1 and HEC-RAS. 2003 , 1	1
1892	Analysis of Support Vector Regression for Approximation of Complex Engineering Analyses. 2003 , 535	13
1891	Should radon be reduced in homes? A cost-effect analysis. 2003 , 84, 227-35	19
1890	Modeling Time-Dependent Systems Using Multi-Stage Bayesian Surrogates. 2003 , 47	3
1889	Quasi-Monte Carlo: halftoning in high dimensions?. 2003 ,	6
1888	Réduction du modèle ASM 1 pour la commande optimale des petites stations d'épuration d'ouvrages actifs. 2003 , 16, 5-26	15
1887	Uncertain Risk: The Role and Limits of Quantitative Assessment. 2003 , 163-212	1
1886	Recent Applications on Reliability-Based Optimization of Automotive Structures. 2003 ,	23
1885	Statistical Models for Space Filling Designs and Optimalities of Uniform Designs. 2003 ,	
1884	Probabilistic Analysis for the Performance Characteristics of Engine Bearings due to Variability in Bearing Properties. 2003 ,	2
1883	An Efficient Algorithm for Constructing Optimal Design of Computer Experiments. 2003 , 545	25
1882	Optimal Robust Fixture Configuration Design Using Computer Experiment. 2003 , 433	
1881	Efficient random fields simulation for stochastic FEM analyses. 2003 , 2383-2386	2
1880	Constructing Meta-Models for Computer Experiments. 2003 , 35, 264-274	36
1879	On the asymptotic distribution of scrambled net quadrature. 2003 , 31, 1282	26
1878	A non-linear and stochastic response surface method for Bayesian estimation of uncertainty in soil moisture simulation from a land surface model. 2004 , 11, 427-440	16
1877	Complete search in continuous global optimization and constraint satisfaction. 2004 , 271-370	55
1876	An Overview of the Design and Analysis of Simulation Experiments for Sensitivity Analysis. 2004 ,	1

1875	Metamodel Development Based on a Nonparametric Isotropic Covariance Estimator and Application in a V6 Engine. 2004,	
1874	On Using Kriging Models as Probabilistic Models in Design. 2004,	3
1873	Estimating Uncertain Flow and Transport Parameters Using a Sequential Uncertainty Fitting Procedure. 2004, 3, 1340-1352	515
1872	A smart hill-climbing algorithm for application server configuration. 2004,	87
1871	Application-driven sequential designs for simulation experiments: Kriging metamodeling. 2004, 55, 876-883	183
1870	A parameter scaling concept for estimating field-scale hydraulic functions of layered soils. 2004, 42, 93-103	9
1869	Numerical Efficiency in Monte Carlo Simulations Case Study of a River Thermodynamic Model. 2004, 130, 456-464	1
1868	. 2004, 8, 431	4
1867	An Expert Framework Aide for Determining Optimal Design Models. 2004, 49	
1866	On the Use of Kriging Models to Approximate Deterministic Computer Models. 2004, 481	27
1865	Parameter Analysis of the Differential Model of Hysteresis. 2004, 71, 342-349	190
1864	Complete search in continuous global optimization and constraint satisfaction. 2004, 13, 271-369	193
1863	Parameter space exploration with Gaussian process trees. 2004,	17
1862	Suppression of vortex-shedding noise via derivative-free shape optimization. 2004, 16, L83-L86	28
1861	A new Bayesian method to forecast and fine tune individual hemodialysis dose. 2004, 8, 244-56	7
1860	New Risk-Based Capital Standards in the European Union: A Proposal Based on Empirical Data. 2004, 7, 41-52	11
1859	Split-domain calibration of an ecosystem model using satellite ocean colour data. 2004, 50, 141-179	31
1858	Evaluating the effect of salinity on a simulated American crocodile (<i>Crocodylus acutus</i>) population with applications to conservation and Everglades restoration. 2004, 180, 371-394	12

1857	Predictive Capability in Estimating Changes in Water Quality: Long-Term Responses to Atmospheric Deposition. 2004 , 151, 215-244		16
1856	A Derivative Based Surrogate Model for Approximating and Optimizing the Output of an Expensive Computer Simulation. 2004 , 30, 39-58		31
1855	Fuzzy simulation of pharmacokinetic models: case study of whole body physiologically based model of diazepam. 2004 , 31, 185-213		34
1854	Optimal Aeroacoustic Shape Design Using the Surrogate Management Framework. <i>Optimization and Engineering</i> , 2004 , 5, 235-262	2.1	89
1853	Generalized pattern searches with derivative information. 2004 , 100, 3-25		38
1852	Structural reliability under non-Gaussian stochastic behavior. <i>Computers and Structures</i> , 2004 , 82, 1113-1131		50
1851	Performance-based design and seismic reliability analysis using designed experiments and neural networks. 2004 , 19, 259-267		36
1850	Multilevel parallel optimization using massively parallel structural dynamics. 2004 , 27, 97-109		9
1849	Approximation methods in multidisciplinary analysis and optimization: a panel discussion. 2004 , 27, 302		223
1848	A parallel updating scheme for approximating and optimizing high fidelity computer simulations. 2004 , 27, 371		79
1847	Transport of mass and energy of polyatomic gases in magnetic fields computed by a Monte Carlo algorithm. 2004 , 16, 353-362		
1846	Alternative sampling methods for estimating multivariate normal probabilities. 2004 , 120, 207-234		42
1845	Estimating treatment effect in the presence of non-compliance measured with error: precision and robustness of data analysis methods. 2004 , 23, 3561-80		9
1844	Modelling Feasible Design Regions Using Lattice-based Kernel Methods. 2004 , 20, 135-142		7
1843	Sorption of Iron on Surfaces: Modelling, Data Evaluation, and Measurement Uncertainty. 2004 , 32, 154-160		5
1842	Trivial reductions of dimensionality in the propagation of uncertainties: a physical example. 2004 , 15, 57-66		
1841	Spatial variability, distribution and uncertainty assessment of soil phosphorus in a south Florida wetland. 2004 , 15, 811-825		40
1840	Efficient sampling techniques for uncertainties in risk analysis. 2004 , 23, 141-157		28

1839	A generalized dimension-reduction method for multidimensional integration in stochastic mechanics. 2004 , 61, 1992-2019	287
1838	A univariate dimension-reduction method for multi-dimensional integration in stochastic mechanics. 2004 , 19, 393-408	383
1837	A probabilistic approach to uncertainty quantification with limited information. 2004 , 85, 183-190	35
1836	A response-modeling approach to characterization and propagation of uncertainty specified over intervals. 2004 , 85, 211-222	4
1835	An exploration of alternative approaches to the representation of uncertainty in model predictions. 2004 , 85, 39-71	233
1834	A comparison of experimental designs in the development of a neural network simulation metamodel. 2004 , 12, 559-578	66
1833	Multi-resolution analysis of Wiener-type uncertainty propagation schemes. 2004 , 197, 502-531	263
1832	A tool for risk-based management of surface water quality. 2004 , 19, 1131-1140	33
1831	Decision support tools for environmentally benign process design under uncertainty. 2004 , 28, 1715-1723	25
1830	The Use of Dimensional and Similarity Analyses in the Propagation of Uncertainties: A Physical Example. 2004 , 13, 467-486	1
1829	Data Analytic Tools for Understanding Random Field Regression Models. <i>Technometrics</i> , 2004 , 46, 411-420	20
1828	Integrated Analysis of Computer and Physical Experiments. <i>Technometrics</i> , 2004 , 46, 153-164	1.4 75
1827	Response surface method for solution of structural identification problems. 2004 , 12, 59-70	16
1826	BACK MATTER. 2004 , 253-306	
1825	Spectral stochastic uncertainty quantification in chemical systems. 2004 , 8, 607-632	84
1824	Classification criteria and probability risk maps: limitations and perspectives. 2004 , 38, 1275-81	25
1823	WHAT CAN BE CONCLUDED ABOUT SEISMIC HISTORY FROM BROKEN AND UNBROKEN SPELEOTHEMS?. 2004 , 8, 431-455	34
1822	Controlling Monte Carlo Variance. 2004 , 123-156	1

1821	An exploration of alternative approaches to the representation of uncertainty in model predictions. 2004 , 85, 39-39	3
1820	Adaptive Computing in Design and Manufacture VI. 2004 ,	3
1819	A New Probabilistic Method for Use in Vibro-Acoustic Analysis. 2004 ,	1
1818	NESSUS Capabilities for Ill-Behaved Performance Functions. 2004 ,	4
1817	Formulation of the Optimal Latin Hypercube Design of Experiments Using a Permutation Genetic Algorithm. 2004 ,	52
1816	Multiobjective Optimization Using Coupled Response Surface Model and Evolutionary Algorithm. 2004 ,	6
1815	Mutiobjective Optimization Using Approximation Model-Based Genetic Algorithms. 2004 ,	45
1814	RLV Aerodynamic and Trajectory Analysis Using an Agent-based Framework. 2004 ,	1
1813	Flexible Approximation Model Approach for Bi-Level Integrated System Synthesis. 2004 ,	8
1812	A Competitive Game Approach for Multi Objective Robust Design Optimization. 2004 ,	12
1811	LJUNGSKILE: a program for assessing uncertainties in speciation calculations. 2004 , 63, 907-16	19
1810	A conceptual, regional hydrological model for Benin (West Africa): validation, uncertainty assessment and assessment of applicability for environmental change analyses. 2004 , 29, 759-768	15
1809	Uncertain climate thresholds and optimal economic growth. 2004 , 48, 723-741	201
1808	Calibration of an in-river phosphorus model: prior evaluation of data needs and model uncertainty. <i>Journal of Hydrology</i> , 2004 , 290, 100-116	6 31
1807	Combining Field Data and Computer Simulations for Calibration and Prediction. 2004 , 26, 448-466	350
1806	Local function approximation in evolutionary algorithms for the optimization of costly functions. 2004 , 8, 490-505	107
1805	Response Surface Methodology: A Retrospective and Literature Survey. 2004 , 36, 53-77	351
1804	Probabilistic System Reliability for a Turbine Engine Airfoil. 2004 , 171	3

1803 Novel methodology for photo condition optimization through simulation. **2004**, 5377, 703

1802 Uniform design: design, analysis and applications. **2004**, 20, 101 23

1801 Combination of General Antithetic Transformations and Control Variables. **2004**, 29, 946-960 6

1800 Evidence Theory for Engineering Applications. **2004**, 6

1799 Stochastic Transportation Network Design Problem with Spatial Equity Constraint. **2004**, 1882, 97-104 80

1798 Reality, Mathematics, and Computation. **2004**, 46, 1-49

1797 Treating Uncertainties in Multibody Dynamic Systems Using a Polynomial Chaos Spectral Decomposition. **2004**, 821 10

1796 A Saddlepoint Approximation Method for Uncertainty Analysis. **2004**, 445 4

1795 Performance Evaluation of Fault Detection Algorithms by Monte Carlo Methods. **2004**, 37, 597-602 1

1794 Multi-Stage Bayesian Surrogates for the Design of Time-Dependent Systems. **2004**, 405 9

1793 Bibliography. **2004**, 427-448

1792 A Comparative Review of Sensitivity and Uncertainty Analysis of Large-Scale SystemsII: Statistical Methods. **2004**, 147, 204-217 105

1791 Uncertainty Analysis by Dimension Reduction Integration and Saddlepoint Approximations. **2005**, 1143 3

1790 Efficient Design of Reservoir Simulation Studies for Development and Optimization. **2005**, 8

1789 Multiprocess parallel antithetic coupling for backward and forward Markov Chain Monte Carlo. **2005**, 33, 661 30

1788 Epidemic Models, Sensitivity Analysis. **2005**,

1787 References. **2005**, 263-281

1786 Uncertainty Quantification and the Verification and Validation of Computational Models. **2005**, 201-219 9

1785	An efficient algorithm for constructing optimal design of computer experiments. <i>Journal of Statistical Planning and Inference</i> , 2005 , 134, 268-287	0.8	356
1784	Decomposition methods for structural reliability analysis. 2005 , 20, 239-250		120
1783	Assignment of probability distributions for parameters in the 1996 performance assessment for the Waste Isolation Pilot Plant. Part 1: description of process. 2005 , 88, 1-32		5
1782	A comparison of uncertainty and sensitivity analysis results obtained with random and Latin hypercube sampling. 2005 , 89, 305-330		161
1781	Sensitivity analysis of the stability problems of thin-walled structures. 2005 , 61, 415-422		39
1780	An optimization methodology of alkaline surfactant-polymer flooding processes using field scale numerical simulation and multiple surrogates. <i>Journal of Petroleum Science and Engineering</i> , 2005 , 47, 197-208	4.4	205
1779	Surrogate-based analysis and optimization. 2005 , 41, 1-28		1486
1778	Evaluation of accuracy and efficiency of some simulation and sampling methods in structural reliability analysis. 2005 , 27, 356-392		18
1777	On the value of experimental data to reduce the prediction uncertainty of a process-oriented catchment model. 2005 , 20, 19-32		60
1776	Multi-objective design optimization using cascade evolutionary computations. 2005 , 194, 3496-3515		40
1775	Competing failure risk analysis using evidence theory. 2005 , 25, 973-95		27
1774	Sensitivity analysis for computer model projections of hurricane losses. 2005 , 25, 1277-97		44
1773	The lineshape of inelastic neutron scattering in relaxor ferroelectrics. 2005 , 47, 1928		2
1772	Assessment of a stochastic interpolation based parameter sampling scheme for efficient uncertainty analyses of hydrologic models. 2005 , 31, 497-512		16
1771	A strategy to improve the contribution of complex simulation models to ecological theory. 2005 , 185, 153-164		98
1770	Latin hypercube sampling and geostatistical modeling of spatial uncertainty in a spatially explicit forest landscape model simulation. 2005 , 185, 255-269		63
1769	Comprehensive sensitivity analysis of an SO ₂ deposition model for three measurement sites: Consequences for SO ₂ deposition fluxes. 2005 , 39, 5025-5039		4
1768	Modeling field-scale multiple tracer injection at a low-level waste disposal site in fractured rocks: effect of multiscale heterogeneity and source term uncertainty on conceptual understanding of mass transfer processes. 2005 , 77, 91-118		7

1767	Linking a one-dimensional pesticide fate model to a three-dimensional groundwater model to simulate pollution risks of shallow and deep groundwater underlying fractured till. 2005 , 79, 89-106	16
1766	Quantifying uncertainty in chemical systems modeling. 2005 , 37, 368-382	73
1765	The integration of design of experiments, surrogate modeling and optimization for thermoscience research. 2005 , 20, 309-315	8
1764	Uncertainty Analysis in Atmospheric Dispersion Modeling. 2005 , 162, 1893-1917	59
1763	Comparison between Newton and response-surface methods. 2005 , 30, 368-380	
1762	Polynomial genetic programming for response surface modeling Part 1: a methodology. 2005 , 29, 19-34	6
1761	Polynomial genetic programming for response surface modeling Part 2: adaptive approximate models with probabilistic optimization problems. 2005 , 29, 35-49	6
1760	Approximate Solutions of Continuous Dispersion Problems. 2005 , 136, 65-80	10
1759	Effect of advective mass transfer on field scale fluid and solute movement: Field and modeling studies at a waste disposal site in fractured rock at Oak Ridge National Laboratory, Tennessee, USA. 2005 , 13, 565-583	6
1758	Constrained Global Optimization of Expensive Black Box Functions Using Radial Basis Functions. 2005 , 31, 153-171	202
1757	On the Design of Optimization Strategies Based on Global Response Surface Approximation Models. 2005 , 33, 31-59	188
1756	Using Unreplicated 2k β Designs for Characterizing Moderately Dimensioned Deterministic Computer Models. 2005 , 21, 809-824	2
1755	An Adaptive Sequential Procedure for Efficient Optimization of the Sheet Metal Spinning Process. 2005 , 21, 439-455	19
1754	Using Neural Networks to Compensate Altitude Effects on the Air Flow Rate in Variable Valve Timing Engines. 2005 ,	2
1753	Impact of Optimality Criteria on Metamodeling Accuracy Under Scarce Sampling Plans. 2005 ,	0
1752	References. 2005 , 447-471	
1751	SENSITIVITY ANALYSES OF THE NITROGEN SIMULATION MODEL, DRAINMOD-N II. 2005 , 48, 2205-2212	22
1750	Treatment of Constrained Multibody Dynamic Systems with Uncertainties. 2005 ,	5

1749	Statistical Testing of Optimality Conditions in Multiresponse Simulation-Based Optimization (Revision of 2005-81). 2005,	
1748	Cam-Phasing Optimization Using Artificial Neural Networks as Surrogate Models-Maximizing Torque Output. 2005,	9
1747	Stochastic modeling of diffuse pesticide losses from a small agricultural catchment. 2005, 34, 1174-85	24
1746	Bibliography. 2005, 549-573	
1745	Aerodynamic Optimization Design with Kriging Model. 2005, 48, 161-168	9
1744	Water Distribution System Reliability Under a Fire Flow Condition: A Probabilistic Approach. 2005, 1	1
1743	SENSITIVITY ANALYSIS OF SOIL AND PM10 LOSS IN WEPS USING THE LHS-OAT METHOD. 2005, 48, 1409-1420	21
1742	. 2005,	83
1741	Simulation Estimation of Mixed Discrete Choice Models with the Use of Randomized QuasiMonte Carlo Sequences: A Comparative Study. 2005, 1921, 112-122	12
1740	Development and Evaluation of a Procedure for the Calibration of Simulation Models. 2005, 1934, 208-217	57
1739	Combining optimizer and metamodeling for railcar structural optimization. 2005, 219, 1-9	1
1738	A Methodology To Test Instrument Software: An Application To the Diagnostic in Automotive Systems.	2
1737	References. 2005, 661-675	
1736	Optimal Engineering System Design Guided by Data-Mining Methods. <i>Technometrics</i> , 2005, 47, 336-348	1.4 30
1735	Could enough samples be more important than better designs for computer experiments?.	3
1734	A Comparison of Methods in Probabilistic Design Based on Computational and Modelling Issues. 2005, 109-122	3
1733	Uncertainty modelling of a suspension unit. 2005, 219, 755-771	6
1732	Analysis of Support Vector Regression for Approximation of Complex Engineering Analyses. 2005, 127, 1077-1087	362

1731	Supply chain simulation tools and techniques: a survey. 2005 , 1, 82		135
1730	Turbomachinery Modeling: Explicit and Impliit Knowledge Capturing (2005A). 2005 , 15		3
1729	Optimization of rib surgery parameters for the correction of scoliotic deformities using approximation models. 2005 , 127, 680-91		12
1728	Spatially distributed observations in constraining inundation modelling uncertainties. 2005 , 19, 3081-3096		63
1727	Sensitivity and uncertainty analysis coupled with automatic calibration for a distributed watershed model. <i>Journal of Hydrology</i> , 2005 , 306, 127-145	6	372
1726	Multi Objective Robust Design Optimization of Airfoils in Transonic Field. 2005 , 283-295		5
1725	Parameter Identification of Materials and Structures. 2005 ,		7
1724	Search for critical loading condition of the spine--a meta analysis of a nonlinear viscoelastic finite element model. 2005 , 8, 323-30		8
1723	Supersaturated Latin Hypercube Designs. 2005 , 34, 417-428		8
1722	Optimal power distribution control for parallel hybrid electric vehicles.		1
1721	Issues in development of simultaneous forward-inverse metamodels.		5
1720	Automotive crashworthiness design using response surface-based variable screening and optimization. 2005 , 22, 38-61		66
1719	Sensitivity analyses of a distributed catchment model to verify the model structure. <i>Journal of Hydrology</i> , 2005 , 310, 216-235	6	115
1718	The effects of database parameter uncertainty on uranium(VI) equilibrium calculations. 2005 , 69, 2183-2191		38
1717	Estimating soil hydraulic properties and their uncertainty: the use of stochastic simulation in the inverse modelling of the evaporation method. 2005 , 126, 277-290		42
1716	In silico identification of the key components and steps in IFN-gamma induced JAK-STAT signaling pathway. 2005 , 579, 1101-8		85
1715	From local hydrological process analysis to regional hydrological model application in Benin: Concept, results and perspectives. 2005 , 30, 347-356		14
1714	Regional hydrological modelling in Benin (West Africa): Uncertainty issues versus scenarios of expected future environmental change. 2005 , 30, 472-484		12

1713	Parameter estimation in an intermediate complexity earth system model using an ensemble Kalman filter. 2005 , 8, 135-154	160
1712	Assessing water consumption of banana: traditional versus modelling approach. 2005 , 74, 201-218	17
1711	State-of-the-Art Review: A User's Guide to the Brave New World of Designing Simulation Experiments. 2005 , 17, 263-289	257
1710	Effects of parameter uncertainties on the modeling of terrestrial biosphere dynamics. 2005 , 19,	229
1709	Stepwise mutation likelihood computation by sequential importance sampling in subdivided population models. 2005 , 68, 41-53	36
1708	Replicated Latin Hypercube Sampling. 2005 ,	5
1707	Estimating the Error in LHS Predictions. 2005 ,	
1706	Application of an Interior Point Sequential Approximate Optimization Method to an Autonomous Underwater Vehicle. 2005 ,	0
1705	Scattered Data Approximation of Weapons Bay Flow Classification. 2005 ,	
1704	.	7
1703	Control of Traffic Systems in Buildings. 2006 ,	
1702	Stochastic Evolutionary Multiobjective Environmental/Economic Dispatch.	4
1701	Chapter 10 A Hilbert Space Approach to Variance Reduction. 2006 , 259-289	4
1700	On the Study of Uncertainty in Inflow Turbulence Model Parameters in Wind Turbine Applications. 2006 ,	2
1699	Collaborative Optimization Framework Based on the Interaction of Low- and High-Fidelity Models and the Moving Least Squares Method. 2006 ,	3
1698	Simultaneous Uniform DoEs for Model Building and Validation in the Multidisciplinary Optimization Framework. 2006 ,	
1697	Collaboration Pursuing Method Using Latin Hypercube Sampling. 2006 ,	0
1696	Surrogate Based Optimization of Helicopter Rotor Blades for Vibration Reduction in Forward Flight. 2006 ,	4

1695	Evaluation of Sampling Methods in Constructing Response Surface Approximations. 2006,		11
1694	Radial Turbine Preliminary Aerodynamic Design Optimization for Expander Cycle Liquid Rocket Engine. 2006,		7
1693	Parametric Optimization of Single Expansion Ramp Nozzle (SERN). 2006,		5
1692	Comparison of Three Surrogate Modeling Techniques: Datascape, Kriging, and Second Order Regression. 2006,		20
1691	Maximum Accumulative Error Samplint Strategy for Approximation of Deterministic Engineering Simulations. 2006,		5
1690	Progressive Quadratic Response Surface Modeling Using Inherited Latin-Hypercube Design. 2006,		1
1689	Metamodeling Approach for Analysis of Post-Buckling in Composite Panels with Structural Degredation. 2006,		1
1688	Multifidelity Optimization for Variable-Complexity Design. 2006,		33
1687	Introduction to Engineering Statistics and Six Sigma. 2006,		0
1686	Experimental Research in Evolutionary Computation. 2006,		2
1685	Screening. 2006,		28
1684	A Kriging-based probabilistic optimization method with an adaptive search region. 2006, 38, 541-555		4
1683	Noise Strategy in Robust Design: What Aspects of Noise Factors are Important in Quality Engineering?. 2006, 18, 367-377		0
1682	Estimating Mean Dimensionality of Analysis of Variance Decompositions. <i>Journal of the American Statistical Association</i> , 2006, 101, 712-721	2.8	87
1681	Efficient search for robust solutions by means of evolutionary algorithms and fitness approximation. 2006, 10, 405-420		119
1680	Dynamic modelling and analysis of biochemical networks: mechanism-based models and model-based experiments. 2006, 7, 364-74		182
1679	Requirement for multiple activation signals by anti-inflammatory feedback in macrophages. <i>Journal of Theoretical Biology</i> , 2006, 241, 276-94	2.3	11
1678	Effects of diffusive property heterogeneity on effective matrix diffusion coefficient for fractured rock. <i>Water Resources Research</i> , 2006, 42,	5.4	15

1677	A Monte Carlo Method for Reliability-Based Design Optimization. 2006,		3
1676	Uncertainty analysis for soil-terrain models. 2006, 20, 117-134		32
1675	The importance of forest area and configuration relative to local habitat factors for conserving forest mammals: A case study of koalas in Queensland, Australia. 2006, 132, 153-165		142
1674	Variable Selection for Gaussian Process Models in Computer Experiments. <i>Technometrics</i> , 2006, 48, 478-490		93
1673	A global sensitivity analysis tool for the parameters of multi-variable catchment models. <i>Journal of Hydrology</i> , 2006, 324, 10-23	6	813
1672	On the use of a Modified Latin Hypercube Sampling (MLHS) method in the estimation of a Mixed Logit Model for vehicle choice. 2006, 40, 147-163		215
1671	Cam-phasing Optimization Using Artificial Neural Networks as Surrogate Models-Fuel Consumption and NOx Emissions. 2006,		19
1670	UNCERTAINTY IN TMDL MODELS. 2006, 49, 1033-1049		85
1669	Physically-based modelling of hydrological processes in a tropical headwater catchment (West Africa) process representation and multi-criteria validation. 2006, 10, 829-847		45
1668	Evaluating detection of an inhalational anthrax outbreak. 2006, 12, 1942-9		32
1667	Multi-parameter uncertainty analysis of a bifurcation point. 2006, 13, 531-540		7
1666	An Artificial Neural Network Based Metamodel for Analysing a Stochastic Combat Simulation. 2006, 2, 38-57		7
1665	Application of Microscopic Simulation Model Calibration and Validation Procedure: Case Study of Coordinated Actuated Signal System. 2006, 1978, 113-122		25
1664	Latin Hypercube Sampling. 2006,		4
1663	Groundwater pollution risk using a modified Latin hypercube sampling. 2006, 8, 223-234		3
1662	Bibliography. 2006, 273-279		
1661	. 2006,		276
1660	Emerging Simulation-Based Methods. 2006, 15-36		

1659	SENSITIVITY ANALYSIS OF APEX FOR NATIONAL ASSESSMENT. 2006 , 49, 679-688		21
1658	Design for Six Sigma in product development at Ford Motor Company in a case study on robust exhaust manifold design. 2006 , 3, 278		9
1657	A saddlepoint approximation based simulation method for uncertainty analysis. 2006 , 1, 206		23
1656	Probabilistic and sensitivity analyses for the performance characteristics of the main bearings in an operating engine due to variability in bearing properties. 2006 , 40, 265		1
1655	Risk-Informed Assessment of Degraded Containment Vessels. 2006 , 569		1
1654	A CASE STUDY IN THE APPLICATION OF SUPERSATURATED DESIGNS TO COMPUTER EXPERIMENTS. 2006 , 26, 595-602		5
1653	Modeling species' distributions to improve conservation in semiurban landscapes: koala case study. 2006 , 20, 449-59		70
1652	Data analysis with fuzzy clustering methods. <i>Computational Statistics and Data Analysis</i> , 2006 , 51, 192-2146		67
1651	Examination of the probabilistic response of reinforced concrete structures under static non-linear analysis. 2006 , 28, 120-133		29
1650	Nearly-orthogonal sampling and neural network metamodel driven conceptual design of multistage space launch vehicle. 2006 , 38, 595-607		16
1649	Bias aware Kalman filters: Comparison and improvements. 2006 , 29, 707-718		56
1648	Calibration framework for a Kalman filter applied to a groundwater model. 2006 , 29, 719-734		29
1647	Uncertainty propagation in CFD using polynomial chaos decomposition. 2006 , 38, 616-640		180
1646	The application of the CFD and Kriging method to an optimization of heat sink. 2006 , 49, 3439-3447		29
1645	Comparison of designs for computer experiments. <i>Journal of Statistical Planning and Inference</i> , 2006 , 136, 1103-1119	0.8	83
1644	Sampling plans based on balanced incomplete block designs for evaluating the importance of computer model inputs. <i>Journal of Statistical Planning and Inference</i> , 2006 , 136, 3203-3220	0.8	32
1643	A study on algorithms for optimization of Latin hypercubes. <i>Journal of Statistical Planning and Inference</i> , 2006 , 136, 3231-3247	0.8	138
1642	Exact sampling with highly uniform point sets. 2006 , 43, 339-349		6

1641	QRAS: the quantitative risk assessment system. 2006 , 91, 292-304	18
1640	Survey of sampling-based methods for uncertainty and sensitivity analysis. 2006 , 91, 1175-1209	732
1639	Input screening: Finding the important model inputs on a budget. 2006 , 91, 1252-1256	12
1638	Refinement strategies for stratified sampling methods. 2006 , 91, 1257-1265	45
1637	A response-modeling alternative to surrogate models for support in computational analyses. 2006 , 91, 1322-1330	2
1636	Sensitivity analysis in conjunction with evidence theory representations of epistemic uncertainty. 2006 , 91, 1414-1434	77
1635	Refined descriptive sampling: A better approach to Monte Carlo simulation. 2006 , 14, 143-160	18
1634	Probabilistic engineering analysis using the NESSUS software. 2006 , 28, 83-107	68
1633	A review on design, modeling and applications of computer experiments. 2006 , 38, 273-291	222
1632	Monte-Carlo-Type Techniques for Processing Interval Uncertainty, and Their Potential Engineering Applications. 2006 , 13, 25-69	22
1631	A simulation study to assess the sensitivity of a forest health monitoring network to outbreaks of defoliating insects. 2006 , 122, 289-307	5
1630	Global Optimization of Stochastic Black-Box Systems via Sequential Kriging Meta-Models. 2006 , 34, 441-466	357
1629	Improved Strategies for Radial basis Function Methods for Global Optimization. 2006 , 37, 113-135	86
1628	Stochastic Constraint Programming: A Scenario-Based Approach. 2006 , 11, 53-80	57
1627	Improvement of overtopping risk evaluations using probabilistic concepts for existing dams. 2006 , 20, 223-237	45
1626	The empirical behavior of sampling methods for stochastic programming. 2006 , 142, 215-241	225
1625	Simulation of Critical Loads for Nitrogen for Terrestrial Plant Communities in The Netherlands. 2006 , 9, 32-45	28
1624	Model-based condition monitoring of PEM fuel cell using Hotelling T2 control limit. 2006 , 162, 388-399	23

1623	ANN inverse analysis based on stochastic small-sample training set simulation. 2006 , 19, 731-740		71
1622	Recent advances in non-probabilistic approaches for non-deterministic dynamic finite element analysis. 2006 , 13, 389-464		104
1621	On Latin Hypercube sampling for efficient uncertainty estimation of satellite rainfall observations in flood prediction. 2006 , 32, 776-792		27
1620	A conditioned Latin hypercube method for sampling in the presence of ancillary information. 2006 , 32, 1378-1388		531
1619	Identifying landscape scale patterns from individual scale processes. 2006 , 199, 442-450		15
1618	Surrogate Model Updating Using Clustering in a Genetic Algorithm Setup. 2006 , 437		1
1617	On Adaptive Sampling for Single and Multi-Response Bayesian Surrogate Models. 2006 , 393		9
1616	Uniform design for computer experiments and its optimal properties. 2006 , 25, 198		15
1615	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
1614	Optimal Parameter Selection for Electronic Packaging Using Sequential Computer Simulations. 2006 , 128, 705-715		18
1613	Uncertainty Analysis by Dimension Reduction Integration and Saddlepoint Approximations. 2006 , 128, 26-33		96
1612	A Methodology to Manage System-level Uncertainty During Conceptual Design. 2006 , 128, 959-968		27
1611	Design Optimization of Micro Synthetic Jet Actuator for Flow Separation Control. 2006 , 128, 1053-1062		12
1610	Canonical form functions as a simple means for genetic programming to evolve human-interpretable functions. 2006 ,		8
1609	What is the achievable effectiveness of the India AIDS Initiative intervention among female sex workers under target coverage? Model projections from southern India. 2006 , 82, 372-80		18
1608	Latin Hyperrectangle Sampling for Computer Experiments. <i>Technometrics</i> , 2006 , 48, 467-477	1.4	31
1607	Empirical Bayesian Analysis for High-Dimensional Computer Output. <i>Technometrics</i> , 2006 , 48, 230-240	1.4	11
1606	Sensitivity Analysis of Dynamic Models to Uncertainties in Inputs Data With Time-Varying Variances. <i>Technometrics</i> , 2006 , 48, 74-87	1.4	3

1605	Chapter 12 Latin Hypercube Sampling as a Tool for Digital Soil Mapping. 2006 , 31, 153-606	8
1604	Privacy in Statistical Databases. <i>Lecture Notes in Computer Science</i> , 2006 ,	0.9 3
1603	Uniform Designs. 2006 ,	1
1602	The promise and peril of uncertainty quantification using response surface approximations. 2006 , 2, 175-189	49
1601	. 2006 ,	3
1600	Miscellaneous Design Topics. 2006 , 483-543	
1599	Estimation of structural reliability for Gaussian random fields. 2006 , 2, 161-173	14
1598	An automated procedure for the extraction of metabolic network information from time series data. 2006 , 4, 665-91	30
1597	Non-derivative design centering algorithm using trust region optimization and variance reduction. 2006 , 38, 37-51	15
1596	Preference-Based Surrogate Modeling in Engineering Design. 2007 , 45, 2688-2701	8
1595	MATHEMATICAL STUDY OF THE IMPACT OF QUARANTINE, ISOLATION AND VACCINATION IN CURTAILING AN EPIDEMIC. 2007 , 15, 185-202	9
1594	Sensitivity analysis and parameter selection for detecting aggregations in acoustic data. 2007 , 64, 160-168	12
1593	Considerations of accuracy and uncertainty with kriging surrogate models in single-objective electromagnetic design optimisation. 2007 , 1, 37-47	16
1592	Reliability based robust design optimization of steel structures. 2007 , 1, 19-29	21
1591	A Hybrid Method for Surrogate Model Updating in Engineering Design Optimization. 2007 , 345	2
1590	Sensitivity and Uncertainty Analysis of the QUAL-TX Model to Aid In the Management of the Lower Colorado River, Texas. 2007 , 2007, 572-594	
1589	Accurate waveform modeling using singular value decomposition with applications to timing analysis. 2007 ,	1
1588	Thermal-mechanical Modelling of Power Electronic Module Packaging. 2007 ,	3

1587	Important factors in screening for Colorectal Cancer. 2007,	1
1586	Development and Evaluation of a Stochastic Traffic Signal Optimization Method. 2007, 1, 193-207	25
1585	Integration of surrogate optimization and PCA for calibration of hydrologic models, A WATCLASS case study. 2007,	
1584	Optimization of control strategy for a single-shaft parallel hybrid electric vehicle. 2007, 221, 555-565	14
1583	Modeling Data from Computer Experiments: An Empirical Comparison of Kriging with MARS and Projection Pursuit Regression. 2007, 19, 327-338	41
1582	Reliability-based Structural Design. 2007,	7
1581	Design search and optimization in aerospace engineering. 2007, 365, 2501-29	11
1580	Estimating Deterioration Level of Aircraft Engines. 2007, 661	2
1579	Efficient estimation and ensemble generation in climate modelling. 2007, 365, 2077-88	29
1578	KRIGING METAMODEL BASED OPTIMIZATION. 2007, 445-484	6
1577	Sampling Techniques. 2007,	6
1576	Sampling scheme for locating two-dimensional parts. 2007, 2, 484	
1575	Computer experiments for circuit optimisation using symmetric Latin hypercube designs. 2007, 4, 442	1
1574	What is the economic value of information about climate thresholds?. 343-354	4
1573	Uncertainties analysis for the plutonium dosimetry model, doses-2005, using Mayak bioassay data. 2007, 93, 207-19	16
1572	Effective NVH analysis and optimisation with CAE and computer experiments. 2007, 3, 1	1
1571	Efficient Design of Reservoir Simulation Studies for Development and Optimization. 2007, 10, 629-637	14
1570	Integrated Uncertainty Assessment for Unconventional Gas Reservoir Project Development. 2007,	2

1569	Hybridizing Genetic Algorithms and Real Options to Approach of the Optimal Decision Rule for Oilfield Development Under Uncertainties. 2007,		
1568	Assessing uncertainty in urban simulations using Bayesian melding. 2007, 41, 652-669		67
1567	Improvement of Nonlinear Lateral Characteristics of Lifting-Body Type Reentry Vehicle Using Optimization Algorithm. 2007,		2
1566	A revised CNCPS feed carbohydrate fractionation scheme for formulating rations for ruminants. 2007, 136, 167-190		71
1565	Introducing probability and uncertainty in groundwater modeling with FEMWATER-LHS. <i>Journal of Hydrology</i> , 2007, 332, 206-213	6	13
1564	Modelling hydrology and water quality in the pre-alpine/alpine Thur watershed using SWAT. <i>Journal of Hydrology</i> , 2007, 333, 413-430	6	1135
1563	Extended analyses of the Wnt/beta-catenin pathway: robustness and oscillatory behaviour. 2007, 581, 4043-8		46
1562	Cellular signaling is potentially regulated by cell density in receptor trafficking networks. 2007, 581, 4589-95		14
1561	Evaluation of protein fractionation systems used in formulating rations for dairy cattle. 2007, 90, 507-21		18
1560	Transitional Flight Control of Tail-Sitter Vertical Takeoff and Landing Mini Unmanned Aerial Vehicle. 2007,		10
1559	Airfoil Shape Optimization by Minimization of an Expensive and Discontinuous Black-box Function. 2007,		1
1558	Weapons Bay Flow and Tone Classification by Sequential Function Approximation. 2007,		
1557	Simulation and Optimization of Flow Control Strategies for Novel High-Lift Configurations. 2007,		4
1556	Efficient Nearly Orthogonal and Space-Filling Latin Hypercubes. <i>Technometrics</i> , 2007, 49, 45-55	1.4	189
1555	A Metamodel Based Optimisation Algorithm for Metal Forming Processes. 2007, 55-72		27
1554	Stochastic Simulation: Algorithms and Analysis. 2007,		528
1553	Quality Assurance for Chemistry and Environmental Science. 2007,		
1552	Advanced Methods in Material Forming. 2007,		12

1551	Investigating product development process reliability and robustness using simulation. 2007 , 18, 545-561		38
1550	Use of Radial Basis Functions and Rough Sets for Evolutionary Multi-Objective Optimization. 2007 ,		4
1549	. 2007 ,		30
1548	A methodology for probabilistic predictions of regional climate change from perturbed physics ensembles. 2007 , 365, 1993-2028		239
1547	Parameter Setting in Evolutionary Algorithms. 2007 ,		105
1546	Mining data from hemodynamic simulations via Bayesian emulation. 2007 , 6, 47		21
1545	A global inventory of N ₂ O emissions from tropical rainforest soils using a detailed biogeochemical model. 2007 , 21, n/a-n/a		119
1544	Variations in net ecosystem exchange of carbon dioxide in a boreal mire: Modeling mechanisms linked to water table position. 2007 , 112,		58
1543	Modeling the mechanisms that control in-stream dissolved organic carbon dynamics in upland and forested catchments. <i>Water Resources Research</i> , 2007 , 43,	5-4	138
1542	Multiobjective sensitivity analysis of sediment and nitrogen processes with a watershed model. <i>Water Resources Research</i> , 2007 , 43,	5-4	32
1541	Bayesian uncertainty analysis in distributed hydrologic modeling: A case study in the Thur River basin (Switzerland). <i>Water Resources Research</i> , 2007 , 43,	5-4	87
1540	Advancing the identification and evaluation of distributed rainfall-runoff models using global sensitivity analysis. <i>Water Resources Research</i> , 2007 , 43,	5-4	102
1539	Nitrate reduction in streambed sediments: Effects of flow and biogeochemical kinetics. <i>Water Resources Research</i> , 2007 , 43,	5-4	98
1538	Trailing-edge noise reduction using derivative-free optimization and large-eddy simulation. 2007 , 572, 13-36		77
1537	The impact of prophylaxis of healthcare workers on influenza pandemic burden. 2007 , 4, 727-34		10
1536	Multi-fidelity optimization via surrogate modelling. 2007 , 463, 3251-3269		404
1535	Review of Metamodeling Techniques in Support of Engineering Design Optimization. 2007 , 129, 370-380		1092
1534	Fundamentals of Fuzzy Clustering. 1-30		22

1533	An Optimization and Trade-Off Process for Crashworthiness with Multiple Responses. 2007 ,	4
1532	Comparing sensitivity analysis methods to advance lumped watershed model identification and evaluation. 2007 , 11, 793-817	214
1531	A Comprehensive Sensitivity Analysis Framework for Model Evaluation and Improvement Using a Case Study of the Rangeland Hydrology and Erosion Model. 2007 , 50, 945-953	14
1530	A Simulation-Based Approach for Developing Optimal Calibrations for Engines with Variable Valve Actuation. 2007 , 62, 539-553	2
1529	Employing optimization and sensitivity analyses tools to generate and analyze mathematical models of T cell signaling events. 2007 ,	
1528	Global Sensitivity and Uncertainty Analyses of the Water Quality Model VFSMOD-W. 2007 , 50, 1719-1732	51
1527	. 2007 ,	158
1526	. 2007 ,	79
1525	Hybrid approximation algorithm with Kriging and quadratic polynomial-based approach for approximate optimization. 2007 , 70, 631-654	9
1524	Energetic statistical size effect simulated by SFEM with stratified sampling and crack band model. 2007 , 71, 1297-1320	44
1523	Überwachung und Analyse der Lebensdauer von Tunnelbauwerken. 2007 , 102, 24-32	1
1522	A sampling-based computational strategy for the representation of epistemic uncertainty in model predictions with evidence theory. 2007 , 196, 3980-3998	95
1521	Multi-objective modelling and decision support using a Bayesian network approximation to a non-point source pollution model. 2007 , 22, 211-222	58
1520	Numerical and visual evaluation of hydrological and environmental models using the Monte Carlo analysis toolbox. 2007 , 22, 1021-1033	121
1519	Modeling regulation mechanisms in the immune system. <i>Journal of Theoretical Biology</i> , 2007 , 246, 33-69	60
1518	Simulation of springback variation in forming of advanced high strength steels. 2007 , 190, 189-198	102
1517	A new uncertainty importance measure. 2007 , 92, 771-784	555
1516	Verification of the calculation of probability of loss of assured safety in temperature-dependent systems with multiple weak and strong links. 2007 , 92, 1363-1373	7

1515	Accounting for uncertainty in pedotransfer functions in vulnerability assessments of pesticide leaching to groundwater. 2007 , 63, 867-75	18
1514	Demonstrating Floodplain Uncertainty Using Flood Probability Maps1. 2007 , 43, 359-371	30
1513	THIS ARTICLE HAS BEEN RETRACTED Modeling Responses of Leafy Spurge Dispersal to Control Strategies. 2007 , 49, 1681-1692	
1512	Latin hypercube approach to estimate uncertainty in ground water vulnerability. 2007 , 45, 348-61	16
1511	A bioenergetics-based population dynamics model of Pacific herring (<i>Clupea harengus pallasii</i>) coupled to a lower trophic level nutrient-phytoplankton-zooplankton model: Description, calibration, and sensitivity analysis. 2007 , 202, 144-164	119
1510	Pathways of river nutrients towards the euphotic zone in a deep-reservoir of small size: Uncertainty analysis. 2007 , 202, 345-361	35
1509	Identifying mechanistic models of spatial behaviour using pattern-based modelling: An example from lizard home ranges. 2007 , 208, 307-316	10
1508	SATCHMO: A spatial simulation model of growth, competition, and mortality in cycling savanna patches. 2007 , 209, 377-391	30
1507	Predictive haemodynamics in a one-dimensional human carotid artery bifurcation. Part I: Application to stent design. 2007 , 54, 802-12	16
1506	Bayesian optimal designs for pharmacokinetic models: sensitivity to uncertainty. 2007 , 17, 851-67	11
1505	The role of measurement uncertainties for the simulation of grassland net ecosystem exchange (NEE) in Europe. 2007 , 121, 175-185	27
1504	Development and characterisation of error functions in design. 2007 , 18, 129-148	9
1503	Acceleration of the Multiple-Try Metropolis algorithm using antithetic and stratified sampling. 2007 , 17, 109-120	37
1502	Operational risk analysis in business processes. 2007 , 25, 168-177	27
1501	Assessment of radionuclide transport uncertainty in the unsaturated zone of Yucca Mountain. 2007 , 30, 118-134	16
1500	Global sensitivity analysis of Alkali-Surfactant-Polymer enhanced oil recovery processes. <i>Journal of Petroleum Science and Engineering</i> , 2007 , 58, 30-42	4-4 77
1499	The timing of TNF and IFN-gamma signaling affects macrophage activation strategies during <i>Mycobacterium tuberculosis</i> infection. <i>Journal of Theoretical Biology</i> , 2008 , 252, 24-38	2.3 28
1498	Experimental design for the identification of hybrid reaction models from transient data. 2008 , 141, 264-277	12

1497	Simulation of simply cross correlated random fields by series expansion methods. 2008 , 30, 337-363		79
1496	Aerodynamic optimization of turbomachinery blades using evolutionary methods and ANN-based surrogate models. <i>Optimization and Engineering</i> , 2008 , 9, 239-255	2.1	51
1495	An adaptive radial basis algorithm (ARBF) for expensive black-box mixed-integer constrained global optimization. <i>Optimization and Engineering</i> , 2008 , 9, 311-339	2.1	48
1494	How you can tell if the simulations in computational criminology are any good. 2008 , 4, 289-308		26
1493	Estimation of process parameter variations in a pre-defined process window using a Latin hypercube method. 2008 , 35, 587-600		4
1492	Surrogate based optimization of helicopter rotor blades for vibration reduction in forward flight. 2008 , 35, 341-363		42
1491	Multidisciplinary design optimization on vehicle tailor rolled blank design. 2008 , 35, 551-560		59
1490	An optimisation strategy for industrial metal forming processes. 2008 , 35, 571-586		44
1489	An effective warpage optimization method in injection molding based on the Kriging model. 2008 , 37, 953-960		83
1488	Design optimization using support vector regression. 2008 , 22, 213-220		16
1487	Analytical evaluation of structural component limit state probabilities. 2008 , 6, 309-333		4
1486	Global sensitivity analysis for a numerical model of radionuclide migration from the RRC Kurchatov Institute radwaste disposal site. 2008 , 22, 17-31		61
1485	Sampling and sensitivity analyses tools (SaSAT) for computational modelling. 2008 , 5, 4		75
1484	Moment independent and variance-based sensitivity analysis with correlations: An application to the stability of a chemical reactor. 2008 , 40, 687-698		47
1483	Reformulation and sampling to solve a stochastic network interdiction problem. 2008 , 52, 120-132		53
1482	Robust design using Bayesian Monte Carlo. 2008 , 73, 1497-1517		28
1481	Strain and stress computations in stochastic finite element methods. 2008 , 74, 1219-1239		32
1480	Strategy for selecting representative points via tangent spheres in the probability density evolution method. 2008 , 74, 1988-2014		56

1479	An investigation on stream temperature analysis based on evolutionary computing. 2008 , 22, 315-326		21
1478	An efficient approach to automate the manual trial and error calibration of activated sludge models. 2008 , 100, 516-28		60
1477	An algorithm for the use of surrogate models in modular flowsheet optimization. 2008 , 54, 2633-2650		183
1476	Computer-aided optimal designs for improving neural network generalization. 2008 , 21, 945-50		6
1475	Shape optimization of wire-wrapped fuel assembly using Kriging metamodeling technique. 2008 , 238, 1332-1341		26
1474	An improved model for predicting electrical contact resistance between bipolar plate and gas diffusion layer in proton exchange membrane fuel cells. 2008 , 182, 265-269		39
1473	Lower bounds of various criteria in experimental designs. <i>Journal of Statistical Planning and Inference</i> , 2008 , 138, 184-195	0.8	9
1472	A mathematical model of Ca ²⁺ dynamics in rat mesenteric smooth muscle cell: agonist and NO stimulation. <i>Journal of Theoretical Biology</i> , 2008 , 253, 238-60	2.3	59
1471	A methodology for performing global uncertainty and sensitivity analysis in systems biology. <i>Journal of Theoretical Biology</i> , 2008 , 254, 178-96	2.3	1370
1470	On the propagation of uncertainty in inflow turbulence to wind turbine loads. 2008 , 96, 503-523		19
1469	A method for optimal design of automotive body assembly using multi-material construction. 2008 , 29, 381-387		68
1468	Parameter uncertainty, sensitivity analysis and prediction error in a water-balance hydrological model. 2008 , 47, 1134-1149		95
1467	On the use of dimension reduction techniques in quasi-Monte Carlo methods. 2008 , 48, 1925-1937		0
1466	Multiple predictor smoothing methods for sensitivity analysis: Description of techniques. 2008 , 93, 28-54		122
1465	Multiple predictor smoothing methods for sensitivity analysis: Example results. 2008 , 93, 55-77		44
1464	Probabilistic uncertainty analysis by mean-value first order Saddlepoint Approximation. 2008 , 93, 325-336		119
1463	Extension of Latin hypercube samples with correlated variables. 2008 , 93, 1047-1059		64
1462	Uncertainty and sensitivity analysis for models with correlated parameters. 2008 , 93, 1563-1573		159

1461	Optimization of sheet metal forming processes by adaptive response surface based on intelligent sampling method. 2008 , 197, 77-88		105
1460	An efficient methodology for modeling complex computer codes with Gaussian processes. <i>Computational Statistics and Data Analysis</i> , 2008 , 52, 4731-4744	1.6	139
1459	Computational modeling issues and methods for the regulatory problem in engineering II Solutions to the structural dynamics and static frame problems. 2008 , 197, 2632-2644		7
1458	Computational modeling issues and methods for the regulatory problem in engineering II Solution to the thermal problem. 2008 , 197, 2480-2489		10
1457	A computational framework for derivative-free optimization of cardiovascular geometries. 2008 , 197, 1890-1905		99
1456	An unsteady adaptive stochastic finite elements formulation for rigid-body fluid-structure interaction. <i>Computers and Structures</i> , 2008 , 86, 2123-2140	4.5	13
1455	Unravelling the output uncertainty of a tree water flow and storage model using several global sensitivity analysis methods. 2008 , 101, 87-99		10
1454	Low discrepancy sequences in high dimensions: How well are their projections distributed?. 2008 , 213, 366-386		44
1453	Multiple crack identification of a free-free beam with uniform material property variation and varied noised frequency. 2008 , 30, 909-929		16
1452	Efficient analysis of structural uncertainty using perturbation techniques. 2008 , 30, 990-1001		7
1451	Optimization of a staggered dimpled surface in a cooling channel using Kriging model. 2008 , 47, 1464-1472		34
1450	Parameter and input data uncertainty estimation for the assessment of long-term soil organic carbon dynamics. 2008 , 23, 125-138		52
1449	Risk-informed assessment of degraded containment vessels. 2008 , 238, 2038-2047		4
1448	A Monte Carlo method for calculating Bayesian uncertainties in internal dosimetry. 2008 , 132, 1-12		49
1447	CONSID: a toolbox for contaminant source identification. 2008 , 46, 638-41		1
1446	Designing sampling schemes for effect monitoring of nutrient leaching from agricultural soils. 2008 , 59, 292-303		23
1445	On effective linearity of soil process models. 2008 , 59, 990-999		4
1444	A mechanistic simulation model of seed dispersal by animals. 2008 , 96, 1011-1022		75

1443	Can multiscale models of species distribution be generalized from region to region? A case study of the koala. 2008 , 45, 558-567	97
1442	Predictive haemodynamics in a one-dimensional human carotid artery bifurcation. Part II: Application to graft design. 2008 , 55, 1176-84	3
1441	SBML-SAT: a systems biology markup language (SBML) based sensitivity analysis tool. 2008 , 9, 342	54
1440	Sensitivity and uncertainty analysis of the mechanism of gas-phase chlorine production from NaCl aerosols in the MAGIC model. 2008 , 42, 6934-6941	7
1439	Uncertainty modeling and spatial prediction by multi-Gaussian kriging: Accounting for an unknown mean value. 2008 , 34, 1431-1442	19
1438	Modelling the impact of river morphology on nitrogen retention: A case study of the Weisse Elster River (Germany). 2008 , 211, 224-232	46
1437	Future research challenges for incorporation of uncertainty in environmental and ecological decision-making. 2008 , 219, 383-399	308
1436	Testing seasonal and long-term controls of streamwater DOC using empirical and process-based models. 2008 , 407, 698-707	42
1435	Latin Hypercube Sampling. 2008 ,	65
1434	Comparison of Simulation Methods for Power System Reliability Indexes and Their Distributions. 2008 , 23, 486-493	64
1433	Reliability Constrained Multi-Area Adequacy Planning Using Stochastic Programming With Sample-Average Approximations. 2008 , 23, 504-513	63
1432	Uncertainty-based multiobjective optimization of groundwater remediation design. <i>Water Resources Research</i> , 2008 , 44,	5-4 60
1431	Input uncertainty propagation methods and hazard mapping of geophysical mass flows. 2008 , 113,	55
1430	Efficient prediction uncertainty approximation in the calibration of environmental simulation models. <i>Water Resources Research</i> , 2008 , 44,	5-4 55
1429	Raccoon ecology database: A resource for population dynamics modelling and meta-analysis. 2008 , 3, 87-96	11
1428	On efficient Monte Carlo-based Statistical Static Timing Analysis of digital circuits. 2008 ,	11
1427	Ensemble of Surrogates: A Framework Based on Minimization of Integrated Square Error. 2008 ,	
1426	A Level-Set-Based Multistage Metamodeling Approach for Design Optimization. 2008 ,	

1425	Bayesian Emulator Approach for Complex Dynamical Systems. 2008,		
1424	Survey of Modeling and Optimization Strategies for High-Dimensional Design Problems. 2008,		11
1423	Trends, Features, and Tests of Common and Recently Introduced Global Optimization Methods. 2008,		2
1422	Multipoint Optimization of a Short-Range Quiet Passenger Aircraft. 2008,		
1421	Robust Optimization of Thermal Aspects of Friction Stir Welding Using Manifold Mapping Techniques. 2008,		
1420	Cross-Validation Based Single Response Adaptive Design of Experiments for Deterministic Computer Simulations. 2008,		4
1419	Quasi-LHD Sequential Sampling Method for Computer Experiments. 2008,		
1418	An Approach for Verification and Validation of the Environmental Design Space. 2008,		8
1417	Uniform Experimental Designs. 2008,		3
1416	Computer Experiments. 2008,		
1415	The Future of Industrial Statistics: A Panel Discussion. <i>Technometrics</i> , 2008 , 50, 103-127	1.4	25
1414	Uncertainty and Sensitivity Analysis for Models of Complex Systems. 2008 , 207-228		20
1413	SWAT model application in a data scarce tropical complex catchment in Tanzania. 2008 , 33, 626-632		98
1412	Multi-criteria evaluation of wastewater treatment plant control strategies under uncertainty. 2008 , 42, 4485-97		87
1411	A duct mapping method using least squares support vector machines. 2008 , 43, n/a-n/a		39
1410	Conceptual model uncertainty in groundwater modeling: Combining generalized likelihood uncertainty estimation and Bayesian model averaging. <i>Water Resources Research</i> , 2008 , 44,	5-4	139
1409	Model Reduction for Large-Scale Systems with High-Dimensional Parametric Input Space. 2008 , 30, 3270-3288		184
1408	Seeding the initial population of a multi-objective evolutionary algorithm using gradient-based information. 2008,		19

1407	Using Orthogonal Arrays in the Sensitivity Analysis of Computer Models. <i>Technometrics</i> , 2008 , 50, 205-215	33
1406	An empirical multivariate log-normal distribution representing uncertainty of biokinetic parameters for ¹³⁷ Cs. 2008 , 131, 198-211	3
1405	Variance reduction techniques: Experimental comparison and analysis for single systems. 2008 , 40, 538-551	5
1404	Parameter Uncertainty of a Watershed Model. 2008 , 33, 5-22	7
1403	Using fuzzy techniques in Business Performance Management. 2008 ,	
1402	Efficient MOEAs with an adaptive sampling technique in searching robust optimal solutions. 2008 ,	
1401	Clustered multiple generalized expected improvement: A novel infill sampling criterion for surrogate models. 2008 ,	42
1400	Agent-based modeling of energy infrastructure transitions. 2008 ,	6
1399	Surrogate-based Multi-Objective Particle Swarm Optimization. 2008 ,	3
1398	Research on mixed optimization method with gradient-based Kriging approximation model. 2008 ,	
1397	On the Use of Projected Gradients for Constrained Multiobjective Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2008 , 712-721	0.9 2
1396	Decision analysis for resource allocation in health care. 2008 , 13 Suppl 3, 23-30	21
1395	The benefits of Latin Hypercube Sampling in sequential simulation algorithms for geostatistical applications. 2008 , 117, 160-174	3
1394	Accelerated Industrial Blade Design Based on Multi-Objective Optimization Using Surrogate Model Methodology. 2008 ,	1
1393	Studies on Design Optimization of Coronary Stents. 2008 , 2,	16
1392	Chapter 4 The Use of Simulation Techniques for Hybrid Software Cost Estimation and Risk Analysis. 2008 , 74, 115-174	11
1391	Sequential Experiment Design for Contour Estimation From Complex Computer Codes. <i>Technometrics</i> , 2008 , 50, 527-541	1.4 138
1390	A stochastic response surface approach to statistical prediction of mobile robot mobility. 2008 ,	12

1389	A Uniform Bound on a Combinatorial Central Limit Theorem for Randomized Orthogonal Array Sampling Designs. 2008 , 26, 243-255	5
1388	Chapter Five Uncertainty in Environmental Decision Making: Issues, Challenges and Future Directions. 2008 , 69-85	12
1387	Vulnerability of Turkish Low-Rise and Mid-Rise Reinforced Concrete Frame Structures. 2008 , 12, 2-11	12
1386	Shape optimization of an axial compressor blade by multi-objective genetic algorithm. 2008 , 222, 599-611	41
1385	Interpreting declines in HIV prevalence: impact of spatial aggregation and migration on expected declines in prevalence. 2008 , 84 Suppl 2, ii42-8	17
1384	SNOBFIT -- Stable Noisy Optimization by Branch and Fit. <i>ACM Transactions on Mathematical Software</i> , 2008 , 35, 1-25	2.3 128
1383	Dynamics and potential impact of the immune response to chronic myelogenous leukemia. 2008 , 4, e1000095	65
1382	Latin hypercube sampling for uncertainty analysis in multiphase modelling. 2008 , 7, 617-626	10
1381	Inventory Service-Level Agreements as Coordination Mechanisms: The Effect of Review Periods. 2008 , 10, 609-624	50
1380	Mobility prediction for unmanned ground vehicles in uncertain environments. 2008 ,	1
1379	Generation of optimal artificial neural networks using a pattern search algorithm: application to approximation of chemical systems. 2008 , 20, 573-601	32
1378	Comparing designs for computer simulation experiments. 2008 ,	9
1377	Model-based optimization revisited: Towards real-world processes. 2008 ,	11
1376	Stochastic analysis of dynamic interaction between train and railway turnout. 2008 , 46, 429-449	40
1375	On Rates of Convergence for Stochastic Optimization Problems Under NonIndependent and Identically Distributed Sampling. 2008 , 19, 524-551	52
1374	Global optimization based on noisy evaluations: An empirical study of two statistical approaches. 2008 , 135, 012100	16
1373	Low-Boom and Low-Drag Optimization of the Twin Engine Version of Silent Supersonic Business Jet. 2008 , 3, 576-585	12
1372	A case study comparison of alternative meta-modelling methods related to nanoenabled surgical instrument design. 2008 , 2, 375	1

1371	Sampling Plans. 1-31	6
1370	Multi-Objective Aerodynamic Design Optimization Based on Camber Line and Thickness Distribution for a Transonic Compressor Rotor. 2008,	2
1369	An Approach to Automate Concept Generation of Sheet Metal Parts Based on Manufacturing Operations. 2008,	3
1368	Latin Hypercube Designs. 2008,	3
1367	Assessment and Propagation of the 237Np Nuclear Data Uncertainties in Integral Calculations by Monte Carlo Techniques. 2008, 160, 108-122	18
1366	Metamodels for Optimum Design of Laser Welded Sandwich Structures. 2008, 119-126	5
1365	A Clustering-Based Surrogate Model Updating Approach to Simulation-Based Engineering Design. 2008, 130,	19
1364	Decision Support System for Economic Analysis of E&P Projects under Uncertainties. 2008,	3
1363	A Multistage MCMC Method with Nonparametric Error Model for Efficient Uncertainty Quantification in History Matching. 2008,	11
1362	Multiobjective Optimization of a Wire-Wrapped LMR Fuel Assembly. 2008, 162, 45-52	
1361	A multivariate central limit theorem for randomized orthogonal array sampling designs in computer experiments. 2008, 36,	12
1360	Incorporating uncertainty into adaptive, transboundary water challenges: a conceptual design for the Okavango River basin. 2008, 10, 312	5
1359	Optimising airline overbooking using a hybrid gradient approach and statistical modelling. 2008, 7, 207-218	3
1358	. 2008,	97
1357	Uncertainty Propagation Methods. 239-258	
1356	Uncertainty Consideration in Watershed Scale Models. 2008,	
1355	Space-Filling Latin Hypercube Designs for Computer Experiments. 2008,	9
1354	Identifying Unsaturated Hydraulic Parameters Using an Integrated Data Fusion Approach on Cross-Borehole Geophysical Data. 2008, 7, 238-248	86

1353	. 2008,	1072
1352	Uncertainty in Simulation of Nitrate Leaching at Field and Catchment Scale within the Odense River Basin. 2008, 7, 10-21	17
1351	The effects of influenza vaccination of health care workers in nursing homes: insights from a mathematical model. 2008, 5, e200	72
1350	Optimal and Robust Design of the PEM Fuel Cell Cathode Gas Diffusion Layer. 2008, 1, 618-630	
1349	A Two-level Decomposition Method for Cooling System Optimization in Injection Molding. 2008, 23, 439-446	4
1348	Latin Hypercube Sampling with Dependence and Applications in Finance. 2008,	3
1347	A Memetic Algorithm Assisted by an Adaptive Topology RBF Network and Variable Local Models for Expensive Optimization Problems. 2008,	3
1346	A Dual Monte Carlo Approach to Estimate Model Uncertainty and its Application to the Rangeland Hydrology and Erosion Model. 2008, 51, 515-520	5
1345	Non-uniform Bound on Normal Approximation of Latin Hypercube Sampling. 2009, 1,	1
1344	. 2009,	988
1343	A novel approach to parameter uncertainty analysis of hydrological models using neural networks. 2009, 13, 1235-1248	73
1342	Construction of nested space-filling designs. 2009, 37,	44
1341	Modeling Onsite Wastewater Systems at the Watershed Scale: A User's Guide. 2009, 8,	
1340	Surrogate Based Optimization Techniques for Aerodynamic Design of Turbomachinery. 2009, 2, 179-188	48
1339	References and Bibliography. 391-403	
1338	Evaluation of PHEVs Fuel Efficiency and Cost Using Monte Carlo Analysis. 2009, 3, 196-208	3
1337	Uniform Designs for Highly Constrained Mixture Experiments. 2009, 41, 35-47	34
1336	Numerical Investigation of the Sensitivity of the Performance Criteria of an Automotive Cyclone Particle Separator to CFD Modeling Parameters. 2009,	

1335	. 2009,	192
1334	Cross Validation Can Estimate How Well Prediction Variance Correlates with Error. 2009 , 47, 2266-2270	20
1333	Robustness analysis in structural optimization. 2009 , 5, 287-293	10
1332	Statistical modeling and optimization for diesel engine calibration. 2009 ,	4
1331	Design and Analysis of Computer Experiments With Branching and Nested Factors. <i>Technometrics</i> , 2009 , 51, 354-365	1.4 18
1330	Kriging metamodeling in multi-objective simulation optimization. 2009 ,	3
1329	Concise Airfoil Representation via Case-Based Knowledge Capture. 2009 , 47, 1209-1218	8
1328	Comparison of descriptive statistics for multidimensional point sets. 2009 , 15,	
1327	Effect of geometrical uncertainty on cemented hip implant structural integrity. 2009 , 131, 054501	11
1326	Modeling on-farm Escherichia coli O157:H7 population dynamics. 2009 , 6, 461-70	32
1325	A Comparative Study of Metamodeling Techniques for Predictive Process Control of Welding Applications. 2009 ,	2
1324	Multi-Objective Optimization of Pin-Fin Heatsinks. 2009 ,	2
1323	Detecting the land-cover changes induced by large-physical disturbances using landscape metrics, spatial sampling, simulation and spatial analysis. 2009 , 9, 6670-700	18
1322	Probabilistic exposure analysis for chemical risk characterization. 2009 , 109, 4-17	23
1321	Remote sensing data with the conditional latin hypercube sampling and geostatistical approach to delineate landscape changes induced by large chronological physical disturbances. 2009 , 9, 148-74	25
1320	A numerical algorithm for the ITZ area fraction in concrete with elliptical aggregate particles. 2009 , 61, 109-117	26
1319	Identification of a topological characteristic responsible for the biological robustness of regulatory networks. 2009 , 5, e1000442	30
1318	Optimizing Latin hypercube design for sequential sampling of computer experiments. 2009 , 41, 793-810	49

1317	Sliced space-filling designs. 2009 , 96, 945-956		58
1316	Optimizing low-discrepancy sequences with an evolutionary algorithm. 2009 ,		2
1315	A comparison of numerical solutions of partial differential equations with probabilistic and possibilistic parameters for the quantification of uncertainty in subsurface solute transport. 2009 , 110, 45-59		6
1314	Probabilistic collocation method for unconfined flow in heterogeneous media. <i>Journal of Hydrology</i> , 2009 , 365, 4-10	6	43
1313	Large-scale runoff routing with an aggregated network-response function. <i>Journal of Hydrology</i> , 2009 , 368, 237-250	6	42
1312	A remote sensing solution for estimating runoff and recharge in arid environments. <i>Journal of Hydrology</i> , 2009 , 373, 1-14	6	114
1311	Impact assessment of combined climate and management scenarios on groundwater resources and associated wetland (Majorca, Spain). <i>Journal of Hydrology</i> , 2009 , 376, 510-527	6	94
1310	Optimal search strategy for the definition of a DNAPL source. <i>Journal of Hydrology</i> , 2009 , 376, 542-556	6	43
1309	Adaptive Policy Design to Reduce Carbon Emissions: A System-of-Systems Perspective. 2009 , 3, 509-519		11
1308	Uncertainty propagation in vegetation distribution models based on ensemble classifiers. 2009 , 220, 791-804		20
1307	Effects of zooplankton diel vertical migration on a phytoplankton community: A scenario analysis of the underlying mechanisms. 2009 , 220, 1358-1368		8
1306	Probabilistic movement model with emigration simulates movements of deer in Nebraska, 1990-2006. 2009 , 220, 2481-2490		5
1305	Sensitivity analysis of an ozone deposition model. 2009 , 43, 663-672		12
1304	Probing the sensitivity of gaseous Br ₂ production from the oxidation of aqueous bromide-containing aerosols and atmospheric implications. 2009 , 43, 3951-3962		15
1303	Pumping test interpretation by combination of Latin hypercube parameter sampling and analytical models. 2009 , 35, 2065-2073		10
1302	Proper lumping in systems biology models. 2009 , 3, 40-51		45
1301	Sensitivity analysis of prior model probabilities and the value of prior knowledge in the assessment of conceptual model uncertainty in groundwater modelling. 2009 , 23, 1131-1146		27
1300	Approaches for defining thresholds and return periods for rainfall-triggered shallow landslides. 2009 , 23, 1444-1460		124

1299	Damage identification of a 3D full scale steel-concrete composite structure with partial-strength joints at different pseudo-dynamic load levels. 2009 , 38, 1219-1236	4
1298	Incremental dynamic analysis for estimating seismic performance sensitivity and uncertainty. 2009 , 39, n/a-n/a	52
1297	Fast performance uncertainty estimation via pushover and approximate IDA. 2009 , 39, n/a-n/a	8
1296	Good modeling practice for PAT applications: propagation of input uncertainty and sensitivity analysis. 2009 , 25, 1043-53	155
1295	A goal-oriented field measurement filtering technique for the identification of material model parameters. 2009 , 44, 591-603	25
1294	A framework for memetic optimization using variable global and local surrogate models. 2009 , 13, 781-793	44
1293	Optimal dimple point of SFF HDD suspension for improving the unloading performance. 2009 , 15, 1685-1693	2
1292	Finding reliable solutions: event-driven probabilistic constraint programming. 2009 , 171, 77-99	5
1291	Onboard sensor orientation analysis with kriging method. 2009 , 64, 374-381	2
1290	Aerodynamic optimization via multi-objective micro-genetic algorithm with range adaptation, knowledge-based reinitialization, crowding and E-dominance. 2009 , 40, 419-430	22
1289	Stochastic observation error and uncertainty in water quality evaluation. 2009 , 32, 1526-1534	37
1288	Nonlinear filters for chaotic oscillatory systems. 2009 , 55, 113-137	33
1287	A method for robust model order reduction in pharmacokinetics. 2009 , 36, 613-28	15
1286	Gradient-based Kriging approximate model and its application research to optimization design. 2009 , 52, 1117-1124	11
1285	Dynamic modeling of herpes simplex virus type-2 (HSV-2) transmission: issues in structural uncertainty. 2009 , 71, 720-49	22
1284	Mesh adaptive direct search algorithms for mixed variable optimization. 2009 , 3, 35-47	87
1283	Comparison study on the accuracy of metamodeling technique for non-convex functions. 2009 , 23, 1175-1181	53
1282	Metamodel-based collaborative optimization framework. 2009 , 38, 103-115	69

1281	Comparing error estimation measures for polynomial and kriging approximation of noise-free functions. 2009 , 38, 429-442	57
1280	Subset selection from large datasets for Kriging modeling. 2009 , 38, 545-569	16
1279	Multiple surrogates: how cross-validation errors can help us to obtain the best predictor. 2009 , 39, 439-457	253
1278	An optimization method for dynamics of structures with repetitive component patterns. 2009 , 39, 557-567	4
1277	Stochastic water balance model for rainfall recharge quantification in Ruataniwha Basin, New Zealand. 2009 , 58, 85	10
1276	Design and analysis for the Gaussian process model. 2009 , 25, 515-524	36
1275	Integrated application of uniform design and least-squares support vector machines to transfection optimization. 2009 , 9, 52	6
1274	Simulation of physically mediated variability in prey resources of a larval fish: a three-dimensional NPZ model. 2009 , 18, 201-223	8
1273	Using orthogonal array sampling to cope with uncertainty in ground water problems. 2009 , 47, 709-13	4
1272	Global sensitivity analysis techniques for probabilistic ground water modeling. 2009 , 47, 730-47	41
1271	Sensitivity and Uncertainty of Ground-Water Discharge Estimates for Semiarid Shrublands1. 2009 , 45, 641-653	1
1270	Impact of Watershed Subdivision and Soil Data Resolution on SWAT Model Calibration and Parameter Uncertainty1. 2009 , 45, 1179-1196	56
1269	Finding maximin latin hypercube designs by Iterated Local Search heuristics. 2009 , 197, 541-547	94
1268	Sensitivity analysis of the combined travel demand model with applications. 2009 , 198, 909-921	26
1267	Classical and imprecise probability methods for sensitivity analysis in engineering: A case study. 2009 , 50, 680-693	54
1266	Structural reliability under monotony: Properties of FORM, simulation or response surface methods and a new class of Monotonous Reliability Methods (MRM). 2009 , 31, 363-374	9
1265	Probabilistic inverse problem and system uncertainties for damage detection in piezoelectrics. 2009 , 41, 1000-1016	17
1264	Recent advances in surrogate-based optimization. 2009 , 45, 50-79	1301

1263	Reified Bayesian modelling and inference for physical systems. <i>Journal of Statistical Planning and Inference</i> , 2009 , 139, 1221-1239	0.8	89
1262	Orthogonal Latin hypercube designs from generalized orthogonal designs. <i>Journal of Statistical Planning and Inference</i> , 2009 , 139, 1530-1540	0.8	23
1261	Partition of the probability-assigned space in probability density evolution analysis of nonlinear stochastic structures. 2009 , 24, 27-42		51
1260	Correlation control in small-sample Monte Carlo type simulations I: A simulated annealing approach. 2009 , 24, 452-462		142
1259	Computational implementation of sampling-based approaches to the calculation of expected dose in performance assessments for the proposed high-level radioactive waste repository at Yucca Mountain, Nevada. 2009 , 94, 699-721		20
1258	Hierarchical adaptive experimental design for Gaussian process emulators. 2009 , 94, 1183-1193		62
1257	Calculations of Sobol indices for the Gaussian process metamodel. 2009 , 94, 742-751		164
1256	An adaptive design and interpolation technique for extracting highly nonlinear response surfaces from deterministic models. 2009 , 94, 1173-1182		7
1255	On the distribution type of uncertain inputs for probabilistic assessment. 2009 , 94, 964-968		3
1254	Contribution to the sample mean plot for graphical and numerical sensitivity analysis. 2009 , 94, 1041-1049		56
1253	Implementation and evaluation of nonparametric regression procedures for sensitivity analysis of computationally demanding models. 2009 , 94, 1735-1763		216
1252	Functional failure analysis of a thermal-hydraulic passive system by means of Line Sampling. 2009 , 94, 1764-1781		20
1251	Minimum Spanning Tree: A new approach to assess the quality of the design of computer experiments. 2009 , 97, 164-169		11
1250	Metamodels for variable importance decomposition with applications to probabilistic engineering design. 2009 , 57, 996-1007		17
1249	Low cost PSO using metamodels and inexact pre-evaluation: Application to aerodynamic shape design. 2009 , 198, 1087-1096		67
1248	Geometrically non-linear behavior of structural systems with random material property: An asymptotic spectral stochastic approach. 2009 , 198, 3173-3185		13
1247	Orthogonal-column Latin hypercube designs with small samples. <i>Computational Statistics and Data Analysis</i> , 2009 , 53, 1191-1200	1.6	9
1246	Addressing uncertainties in cap rock integrity assessment through a response surface methodology. 2009 , 1, 2879-2886		2

1245	Partitioning total variance in risk assessment: Application to a municipal solid waste incinerator. 2009 , 24, 247-261		24
1244	Optimization of ventilation systems in office environment, Part II: Results and discussions. 2009 , 44, 657-665		39
1243	Reliability-based optimization of design variance to identify critical tolerances. 2009 , 40, 305-311		7
1242	Choosing the Sample Size of a Computer Experiment: A Practical Guide. <i>Technometrics</i> , 2009 , 51, 366-376	1.4	361
1241	Bayesian Guided Pattern Search for Robust Local Optimization. <i>Technometrics</i> , 2009 , 51, 389-401	1.4	42
1240	Simultaneous Determination of Tuning and Calibration Parameters for Computer Experiments. <i>Technometrics</i> , 2009 , 51, 464-474	1.4	36
1239	Shape Optimization of Inlet Plenum in a PBMR-Type Gas-Cooled Nuclear Reactor. 2009 , 46, 649-652		5
1238	Crop Modeling and Decision Support. 2009 ,		2
1237	Prediction for Computer Experiments Having Quantitative and Qualitative Input Variables. <i>Technometrics</i> , 2009 , 51, 278-288	1.4	56
1236	Assessment of large transport infrastructure projects: The CBA-DK model. 2009 , 43, 800-813		20
1235	Modeling the effects of influenza vaccination of health care workers in hospital departments. 2009 , 27, 6261-7		52
1234	Uncertainty analysis in WWTP model applications: a critical discussion using an example from design. 2009 , 43, 2894-906		118
1233	Identifying key entry-points for strategic management of smallholder farming systems in sub-Saharan Africa using the dynamic farm-scale simulation model NUANCES-FARMSIM. 2009 , 102, 89-101		58
1232	Design and Performance Optimization of Finocyl Grain. 2009 ,		3
1231	Support Vector Regression-Driven Multidisciplinary Design Optimization of a Multistage Ground Based Interceptor. 2009 ,		1
1230	An Integrated Approach for Design and Optimization of Slotted Tube Grain Configurations. 2009 ,		
1229	Multidimensional Meta-Model Based Optimization of Optical Transmission Systems. 2009 , 27, 2307-2314		2
1228	Performance Evaluation of Pile-Supported Wharf under Seismic Loading. 2009 ,		12

1227	Monte Carlo and Quasi-Monte Carlo for Statistics. 2009 , 3-18	1
1226	Uncertainty in a Result Determined from Multiple Variables. 61-83	15
1225	Parametric uncertainty effects on aerosol radiative forcing. 2009 , 36, n/a-n/a	25
1224	Modeling TNT ignition. 2009 , 113, 10474-87	13
1223	D-optimal design of artifacts used in-machine software error compensation. 2009 , 47, 1895-1912	1
1222	Passive vs. aggressive strategies: A game theoretic analysis of military defense. 2009 ,	
1221	Dynamic Optimization of Nonlinear Processes with an Enhanced Scatter Search Method. 2009 , 48, 4388-4401	88
1220	Airfoil Optimisation by Swarm Algorithm with Mutation and Artificial Neural Networks. 2009 ,	13
1219	Propagation of Structural Random Field Uncertainty Using Improved DR Method. 2009 ,	
1218	Comparison of Uncertainty Propagation / Response Surface Techniques for Two Aeroelastic Systems. 2009 ,	10
1217	Efficient Uncertainty Quantification Using Gradient-Enhanced Kriging. 2009 ,	43
1216	Accelerating the Numerical Generation of Aerodynamic Models for Flight Simulation. 2009 ,	2
1215	Practical Implementation of Robust Design Assisted by Response Surface Approximation and Visual Data-Mining. 2009 , 131,	18
1214	Nested Latin hypercube designs. 2009 , 96, 957-970	91
1213	Novel Algorithms for Fast Statistical Analysis of Scaled Circuits. 2009 ,	10
1212	Computational Statistics. 2009 ,	116
1211	Generation scheduling with volatile wind power generation. 2009 ,	1
1210	Uncertainty in Multi-Criteria Evaluation Techniques When Used for Land Suitability Analysis. 2009 , 291-298	2

1209	Variation-Aware Analog Structural Synthesis. 2009 ,		16
1208	Small Sample Bayesian Designs for Complex High-Dimensional Models Based on Information Gained Using Fast Approximations. <i>Technometrics</i> , 2009 , 51, 377-388	1.4	41
1207	Optimization of Coordinated/Actuated Traffic Signal System: Stochastic Optimization Method Based on Shuffled Frog-Leaping Algorithm. 2009 , 2128, 76-85		14
1206	Diagnostics for Gaussian Process Emulators. <i>Technometrics</i> , 2009 , 51, 425-438	1.4	234
1205	Effects of temperature change on demersal fishes in the California Current: a bioenergetics approach. 2009 , 66, 1449-1461		16
1204	An Improvement of Normal Approximation of Randomized Orthogonal Array Sampling Designs. 2009 , 27, 713-720		3
1203	System-of-systems iso-performance search to inform multi-actor policymaking to reduce aviation life cycle carbon emissions. 2009 ,		
1202	Uncertainty and sensitivity analysis techniques for hydrologic modeling. 2009 , 11, 282-296		37
1201	Coherent Path Tracing. 2009 , 14, 33-43		2
1200	Adaptive Design and Analysis of Supercomputer Experiments. <i>Technometrics</i> , 2009 , 51, 130-145	1.4	111
1199	Study and modelling of two apple quality attributes: the soluble solids content and the firmness. 2009 , 15, 317-336		3
1198	Structural assessment and reliability analysis for existing engineering structures, theoretical background. 2009 , 5, 267-275		28
1197	Modeling the effect of size reduction on the stratification of a large wind-driven lake using an uncertainty-based approach. <i>Water Resources Research</i> , 2009 , 45,	5.4	11
1196	Evaluating uncertainty in integrated environmental models: A review of concepts and tools. <i>Water Resources Research</i> , 2009 , 45,	5.4	185
1195	Quantification of uncertainty in pedotransfer function-based parameter estimation for unsaturated flow modeling. <i>Water Resources Research</i> , 2009 , 45,	5.4	32
1194	Effects of chemical composition variation on the dynamics of ruminal fermentation and biological value of corn milling (co)products. 2009 , 92, 401-13		29
1193	Robust Stochastic Approximation Approach to Stochastic Programming. 2009 , 19, 1574-1609		687
1192	A Geologically Based Markov Chain Model for Simulating Tritium Transport With Uncertain Conditions in a Nuclear-Stimulated Natural Gas Reservoir. 2009 , 12, 974-984		4

1191	Evaluation of uncertainty parameters in risk assessment of agricultural chemicals on groundwater contamination. 2009 , 13, 127	1
1190	Multistage Machining Process Design and Optimization Using Error Equivalence Method. 2009 ,	1
1189	A farewell to the use of antithetic variates in Monte Carlo simulation. 2009 , 60, 1026-1035	6
1188	Cost-effectiveness analysis of a hypothetical hepatitis C vaccine compared to antiviral therapy. 2009 , 137, 241-9	17
1187	A preference-performance hybrid method for surrogate model updating in engineering design optimisation. 2009 , 9, 218	2
1186	Evaluation of the global oceanic isoprene source and its impacts on marine organic carbon aerosol. 2009 , 9, 1253-1262	145
1185	A Metamodeling Approach for Uncertainty Analysis of Nondeterministic Systems. 2009 , 131,	12
1184	Numerical Evaluation of Uncertainty in Water Retention Parameters and Effect on Predictive Uncertainty. 2009 , 8, 158-166	19
1183	References. 539-586	0
1182	Bayesian optimization for parameter identification on a small simulation budget. 2009 , 42, 1603-1608	4
1181	Back Matter. 2009 , 255-277	
1180	Helicopter Vibration Reduction throughout the Entire Flight Envelope Using Surrogate-Based Optimization. 2009 , 54, 12007-1200715	29
1179	Neurocomputing strategies for solving reliability-robust design optimization problems. 2010 , 27, 819-840	27
1178	Iterative Data-based Modelling and Optimization for Rapid Design of Dynamic Processes. 2010 , 43, 475-480	
1177	Structural dynamic analysis using Gaussian process emulators. 2010 , 27, 580-605	21
1176	Research on Parameter Sensitivity Analysis of Distributed Hydrological Model in Karst Watershed. 2010 ,	
1175	CMS4SI Structural Identification Approach for Interpreting Measurements. 2010 ,	
1174	Adaptive Bayesian Methods in Manufacturing Process Control With Small Experimental Data Sets. 2010 ,	

1173	Quantifying proximal and distal sources of NO in asthma using a multicompartment model. 2010 , 108, 821-9	10
1172	Performance Map Construction for a Centrifugal Diffuser with Data Mining Techniques. 2010 , 4, 36-50	7
1171	Two-Dimensional Optimization of a Stent for an Aneurysm. 2010 , 4,	12
1170	Fast Generation of Space-filling Latin Hypercube Sample Designs. 2010 ,	7
1169	Human Spaceflight Risk Management. 2010 ,	0
1168	BACK MATTER. 2010 , 271-296	
1167	Treatment of uncertainty in performance assessments for the geological disposal of radioactive waste. 2010 , 547-579	4
1166	Statistical Design of Experiments. 2010 , 433-499	
1165	Guidance on a harmonised framework for pest risk assessment and the identification and evaluation of pest risk management options by EFSA. 2010 , 8, 1495	130
1164	Agent-based modelling of energy infrastructure transitions. 2010 , 6, 106	31
1163	A new and flexible method for constructing designs for computer experiments. 2010 , 38,	47
1162	A Unified Unintrusive Discrete Approach to Sensitivity Analysis and Uncertainty Propagation in Fluid Flow Simulations. 2010 ,	2
1161	Important parameters for smoke plume rise simulation with Daysmoke. 2010 , 1, 250-259	25
1160	Uncertainty and sensitivity analysis of biokinetic models for radiopharmaceuticals used in nuclear medicine. 2010 , 139, 228-31	13
1159	Uncertainty propagation in soil greenhouse gas emission models: An experiment using the DNDC model and at the Oensingen cropland site. 2010 , 136, 97-110	51
1158	Global sensitivity analysis for systems with independent and/or correlated inputs. 2010 , 114, 6022-32	143
1157	An accumulative error based adaptive design of experiments for offline metamodeling. 2010 , 40, 137-155	67
1156	Survey of modeling and optimization strategies to solve high-dimensional design problems with computationally-expensive black-box functions. 2010 , 41, 219-241	375

1155	A comparative study of metamodeling methods considering sample quality merits. 2010 , 42, 923-938	67
1154	Modified particle swarm optimization for a multimodal mixed-variable laser peening process. 2010 , 42, 769-782	18
1153	Estimating training data boundaries in surrogate-based modeling. 2010 , 42, 811-821	2
1152	Optimization of forging processes using Finite Element simulations. 2010 , 42, 797-810	45
1151	Characterising material and process variation effects on springback robustness for a semi-cylindrical sheet metal forming process. 2010 , 52, 1756-1766	21
1150	TNF and IL-10 are major factors in modulation of the phagocytic cell environment in lung and lymph node in tuberculosis: a next-generation two-compartmental model. <i>Journal of Theoretical Biology</i> , 2010 , 265, 586-98	2.3 75
1149	Comparing and generating Latin Hypercube designs in Kriging models. 2010 , 94, 353-366	15
1148	Latin hypercube sampling with inequality constraints. 2010 , 94, 325-339	39
1147	Computer experiments: a review. 2010 , 94, 311-324	67
1146	Minimal average degree aberration and the state polytope for experimental designs. 2010 , 62, 673-698	6
1145	A comparative application of different EC8-3 procedures for the seismic safety assessment of existing structures. 2010 , 8, 91-118	14
1144	Pooling control in variable preparative chromatography processes. 2010 , 33, 375-82	15
1143	A comparative study of numerical approaches to risk assessment of contaminant transport. 2010 , 24, 971-984	27
1142	Effects of discount rate and various costs on optimal design of caisson breakwater. 2010 , 14, 99-109	3
1141	Risk analysis of flood control operation mode with forecast information based on a combination of risk sources. 2010 , 53, 1949-1956	28
1140	Multiple transmission pathways and disease dynamics in a waterborne pathogen model. 2010 , 72, 1506-33	239
1139	Analytical model for nanotoxic assessment of a human respiratory system. 2010 , 25, 903-908	2
1138	Uncertainty Analysis in Sediment Load Modeling Using ANN and SWAT Model. 2010 , 24, 1747-1761	79

1137	An Integrated Simulation-Assessment Approach for Evaluating Health Risks of Groundwater Contamination Under Multiple Uncertainties. 2010 , 24, 3349-3369		27
1136	Support planning and controlling of early quality assurance by combining expert judgment and defect data – case study. 2010 , 15, 423-454		14
1135	Experiment design through dynamical characterisation of non-linear systems biology models utilising sparse grids. 2010 , 4, 249-62		17
1134	A Two-Level Genetic Algorithm for Electromagnetic Optimization. 2010 , 46, 2585-2595		33
1133	Watershed model calibration using multi-objective optimization and multi-site averaging. <i>Journal of Hydrology</i> , 2010 , 380, 277-288	6	42
1132	Water balance modelling in a tropical watershed under deciduous forest (Mule Hole, India): Regolith matrix storage buffers the groundwater recharge process. <i>Journal of Hydrology</i> , 2010 , 380, 460-472	6	55
1131	Application of a multimodel approach to account for conceptual model and scenario uncertainties in groundwater modelling. <i>Journal of Hydrology</i> , 2010 , 394, 416-435	6	71
1130	Uncertainty and sensitivity analysis in performance assessment for the proposed repository for high-level radioactive waste at Yucca Mountain, Nevada. 2010 , 2, 7580-7582		2
1129	FIELD – a summary simulation model of the soil-drop system to analyse long-term resource interactions and use efficiencies at farm scale. 2010 , 32, 10-21		30
1128	Implications of dispersal and life history strategies for the persistence of Linyphiid spider populations. 2010 , 221, 1138-1147		5
1127	A comparison of Latin hypercube and grid ensemble designs for the multivariate emulation of an Earth system model. 2010 , 36, 746-755		47
1126	Adaptation to Climate Change in Regional Australia: A Decision-Making Framework for Modelling Policy for Rural Production. 2010 , 4, 335-354		18
1125	A hybrid method for simulation factor screening. 2010 , 57, 45-57		15
1124	An algorithm for fast optimal Latin hypercube design of experiments. 2010 , 82, 135-156		180
1123	Sensitivity and identifiability of stream flow generation parameters of the SWAT model. 2010 , 24, 1133-1148		170
1122	Estimation of soil hydraulic properties and their uncertainty: comparison between laboratory and field experiment. 2010 , 24, 3426-3435		31
1121	Kriging as an alternative for a more precise analysis of output parameters in nuclear safety – large break LOCA calculation. 2010 , 26, 565-576		2
1120	An unbiased sensitivity analysis reveals important parameters controlling periodicity of circadian clock. 2010 , 105, 250-9		6

1119	A methodological approach for statistical evaluation of aircraft infrared signature. 2010 , 95, 484-493		29
1118	A method for stochastic constrained optimization using derivative-free surrogate pattern search and collocation. 2010 , 229, 4664-4682		39
1117	Progress in design optimization using evolutionary algorithms for aerodynamic problems. 2010 , 46, 199-223		33
1116	Simplex based space filling designs. <i>Journal of Statistical Planning and Inference</i> , 2010 , 140, 585-596	0.8	1
1115	Batch sequential designs for computer experiments. <i>Journal of Statistical Planning and Inference</i> , 2010 , 140, 1452-1464	0.8	69
1114	Construction of orthogonal Latin hypercube designs with flexible run sizes. <i>Journal of Statistical Planning and Inference</i> , 2010 , 140, 3236-3242	0.8	26
1113	Prediction of uncertain frequency response function bounds using polynomial chaos expansion. 2010 , 329, 3348-3358		26
1112	A response surface methodology to address uncertainties in cap rock failure assessment for CO ₂ geological storage in deep aquifers. 2010 , 4, 198-208		44
1111	A technique for uncertainty analysis for inverse heat conduction problems. 2010 , 53, 753-759		55
1110	Effect of cycling rate, particle size and transport properties on lithium-ion cathode performance. 2010 , 53, 3552-3561		85
1109	The study on a statistical methodology for PWR fuel rod internal pressure evaluation. 2010 , 240, 1397-1402		2
1108	Uncertainty in peak cooling load calculations. 2010 , 42, 1010-1018		126
1107	A study on design uniformity under errors in the level values. 2010 , 80, 1467-1471		3
1106	Seismic fragilities for non-ductile reinforced concrete frames [Role of aleatoric and epistemic uncertainties. 2010 , 32, 1-12		191
1105	A systematic comparison of metamodeling techniques for simulation optimization in Decision Support Systems. 2010 , 10, 1257-1273		117
1104	Uncertainty quantification and robust design of aircraft components under thermal loads. 2010 , 14, 527-534		10
1103	Response surface methodology using Gaussian processes: Towards optimizing the trans-stilbene epoxidation over Co ₂ +NaX catalysts. 2010 , 156, 423-431		42
1102	Stochastic modeling of gob gas venthole production performances in active and completed longwall panels of coal mines. 2010 , 84, 125-140		29

1101	Uniformly sampled genetic algorithm with gradient search for structural identification [Part I: Global search. <i>Computers and Structures</i> , 2010 , 88, 949-962	4.5	12
1100	An evolutionary method for complex-process optimization. 2010 , 37, 315-324		93
1099	How to avoid a perfunctory sensitivity analysis. 2010 , 25, 1508-1517		568
1098	Successful Application of Evolutionary Algorithms in Engineering Design. 2010 , 7, S199-S211		11
1097	A Bayesian approach for integration of physical and computer experiments for quality improvement in nano-composite manufacturing. 2010 , 26, 749-764		4
1096	Global sensitivity analysis applied to a contamination assessment model of listeria monocytogenes in cold smoked salmon at consumption. 2010 , 30, 841-52		27
1095	Robust dynamics of Amazon dieback to climate change with perturbed ecosystem model parameters. 2010 , 16, 2476		37
1094	Galaxy formation spanning cosmic history. 2010 , no-no		29
1093	Analog circuits optimization based on evolutionary computation techniques. 2010 , 43, 136-155		57
1092	Optimizing Soil Hydraulic Parameters in RZWQM2 under Fallow Conditions. <i>Soil Science Society of America Journal</i> , 2010 , 74, 1897-1913	2.5	29
1091	A HYBRID OPTIMIZED ALGORITHM BASED ON EGO AND TAGUCHI'S METHOD FOR SOLVING EXPENSIVE EVALUATION PROBLEMS OF ANTENNA DESIGN. 2010 , 17, 181-192		3
1090	Comparing Computer Experiments for Fitting High-Order Polynomial Metamodels. 2010 , 42, 86-102		18
1089	Strategies for the use of oseltamivir and zanamivir during pandemic outbreaks. 2010 , 21, e28-63		10
1088	Fumonisin B(1) and implications in nursery swine productivity: a quantitative exposure assessment. 2010 , 88, 3767-77		8
1087	Cost-effectiveness of "golden mustard" for treating vitamin A deficiency in India. 2010 , 5, e12046		21
1086	Uncertainty in the tail of the variant Creutzfeldt-Jakob disease epidemic in the UK. 2010 , 5, e15626		48
1085	Modifying Goodness-of-Fit Indicators to Incorporate Both Measurement and Model Uncertainty in Model Calibration and Validation. 2010 , 53, 55-63		58
1084	Nutrient Loading Assessment and Associated Uncertainty in a Subtropical Reservoir Watershed. 2010 ,		

1083	Probability-based Latin hypercube designs for slid-rectangular regions. 2010 , 97, 961-968	13
1082	Integrated Design of Materials and ProductsRobust Design Methods for Multilevel Systems. 2010 , 179-240	
1081	Enhancing the sample average approximation method with U designs. 2010 , 97, 947-960	2
1080	Metamodelling and search using space exploration and unimodal region elimination for design optimization. 2010 , 42, 517-533	30
1079	Trends, features, and tests of common and recently introduced global optimization methods. 2010 , 42, 691-718	70
1078	Approximation-Assisted Optimization for Novel Compact Heat Exchanger Designs. 2010 , 16, 707-728	20
1077	STABILITY PROBLEMS OF STEEL-CONCRETE MEMBERS COMPOSED OF HIGH-STRENGTH MATERIALS. 2010 , 16, 352-362	21
1076	Advances of Soft Computing in Engineering. 2010 ,	1
1075	Uncertainty propagation on damage evolution of a concrete structure subjected to coupled leaching and creep. 2010 , 14, 891-921	4
1074	Design of Experiment Method for Microsatellite System Simulation and Optimization. 2010 ,	2
1073	ANN-based representation of parametric and residual uncertainty of models. 2010 ,	4
1072	Surrogate modelling for characterising the performance of a dielectric barrier discharge plasma actuator. 2010 , 24, 281-301	5
1071	Investigating the sensitivity of numerical model simulations of the modern state of the Greenland ice-sheet and its future response to climate change. 2010 , 4, 397-417	80
1070	Asynchronous parallel hybrid optimization combining DIRECT and GSS. 2010 , 25, 797-817	9
1069	Generalized Latin Hypercube Design for Computer Experiments. <i>Technometrics</i> , 2010 , 52, 421-429	1.4 72
1068	How microbial community composition regulates coral disease development. 2010 , 8, e1000345	85
1067	Analysis of SWAT 2005 Parameter Sensitivity with LH-OAT Method. 2010 , 17, 1-7	1
1066	An Analytic Method for Evaluating the Performance of Aggregation Rules for Probability Densities. 2010 , 58, 1440-1449	11

1065	Dynamic Skin Wrinkles: Geometry or Mechanics? A Probabilistic Finite Element Approach. 2010,		1
1064	Uncertainty Quantification of Turbulence Model Coefficients via Latin Hypercube Sampling Method. 2010,		1
1063	Nested Lattice Sampling: A New Sampling Scheme Derived by Randomizing Nested Orthogonal Arrays. <i>Journal of the American Statistical Association</i> , 2010 , 105, 1147-1155	2.8	11
1062	The challenge of optimizing expensive black boxes: a scatter search/rough set theory approach. 2010 , 61, 53-67		9
1061	A review of the (60)Co internal dosimetry at Devonport Royal Dockyard. 2010 , 30, 37-48		3
1060	Global Sensitivity Analysis of a Distributed Hydrologic Model Using Monte Carlo Simulation. 2010,		
1059	Phase-locked signals elucidate circuit architecture of an oscillatory pathway. 2010 , 6, e1001040		37
1058	Computational Challenges in Systems Biology. 2010 , 175-223		2
1057	System Reliability Modeling. 2010 , 71-168		2
1056	Representation of analysis results involving aleatory and epistemic uncertainty. 2010 , 39, 605-646		79
1055	Damage Detection through Genetic and Swarm-Based Optimization Algorithms. 2010,		1
1054	Parent-offspring conflict and the evolution of dispersal distance. 2010 , 175, 38-49		39
1053	Quantifying parameter sensitivity, interaction, and transferability in hydrologically enhanced versions of the Noah land surface model over transition zones during the warm season. 2010 , 115,		111
1052	Real time refractivity from clutter using a best fit approach improved with physical information. 2010 , 45, n/a-n/a		22
1051	Sensitivity analysis of distributed erosion models: Framework. <i>Water Resources Research</i> , 2010 , 46,	5.4	9
1050	Multicomponent incremental dynamic analysis considering variable incident angle. 2010 , 6, 77-94		55
1049	A spatial-statistical approach to the visualisation of uncertainty in land suitability analysis. 2010 , 55, 257-272		36
1048	Computational Fluid Dynamics-Based Multiobjective Optimization for Catalyst Design. 2010 , 49, 11079-11086		9

1047	A Cooperative Sampling Approach to Discovering Optimal Configurations in Large Scale Computing Systems. 2010,	
1046	Test and evaluation of a SoS using a prescriptive and adaptive testing framework. 2010,	5
1045	Wavelength-diverse polarization modulators for Stokes polarimetry. 2010, 49, 3580-6	25
1044	Multidisciplinary Robust Design and Optimization of Multistage Boost Phase Interceptor. 2010,	4
1043	Concrete calcium leaching at variable temperature: Experimental data and numerical model inverse identification. 2010, 49, 35-45	49
1042	Efficient identification of ocean thermodynamics in a physical/biogeochemical ocean model with an iterative Importance Sampling method. 2010, 32, 205-215	17
1041	Methodology of the sensitivity analysis used for modeling an infectious disease. 2010, 28, 8132-40	7
1040	Quantifying uncertainty in estimation of tropical arthropod species richness. 2010, 176, 90-5	171
1039	An integrated approach to determine parameters of a 3D volcano model by using InSAR data with metamodel technique. 2010,	
1038	Prereferral rectal artesunate for treatment of severe childhood malaria: a cost-effectiveness analysis. 2010, 376, 1910-5	24
1037	Multiple Criteria Decision Making for Sustainable Energy and Transportation Systems. 2010,	7
1036	Introduction to Engineering Statistics and Lean Sigma. 2010,	13
1035	Aerodynamic Optimization of an Over-the-Wing-Nacelle-Mount Configuration. 2010,	0
1034	Using Stochastic Expansion Methods in Evidence Theory for Uncertainty Quantification. 2010,	4
1033	Robust Kriging Models. 2010,	5
1032	Global Sensitivity Analysis for Stochastic Collocation. 2010,	9
1031	A Surrogate Based Approach to Reduced-Order Dynamic Stall Modeling. 2010,	5
1030	Searching for Transonic Aeroelastic Instability Using an Aerodynamic Model Hierarchy. 2010,	4

1029	Control-Oriented Design Using H-infinity Synthesis and Multiple Surrogates. 2010,	3
1028	Why Not Run the Efficient Global Optimization Algorithm with Multiple Surrogates?. 2010,	24
1027	Scalable Uncertainty Management. <i>Lecture Notes in Computer Science</i> , 2010,	0.9
1026	Sampling for High-Resolution Soil Mapping. 2010, 3-14	3
1025	A modification of Cheng'S method: An alternative Factor Screening method for stochastic simulation models. 2010,	2
1024	Building surrogates with overcomplete bases in computer experiments with applications to bistable laser diodes. 2010, 43, 39-53	6
1023	Confidence Intervals for Quantiles When Applying Latin Hypercube Sampling. 2010,	1
1022	Sonar uncertainty and sensitivity analysis techniques. 2010,	
1021	. 2010,	1
1020	A fast optimal latin hypercube design for Gaussian process regression modeling. 2010,	8
1019	A New Importance Measure for Sensitivity Analysis. 2010, 47, 53-61	61
1018	Hydrological Modeling. 2011, 435-457	10
1017	Probabilistic load flow using latin hypercube sampling with dependence for distribution networks. 2011,	4
1016	Continuous Optimal Designs for Generalized Linear Models under Model Uncertainty. 2011, 5, 137-145	3
1015	Hi-Fi transmission of periodic signals amid cell-to-cell variability. 2011, 7, 2238-44	15
1014	Swarm Heuristic for Identifying Preferred Solutions in Surrogate-Based Multi-Objective Engineering Design. 2011, 49, 1437-1449	10
1013	Algorithms for Generating Maximin Latin Hypercube and Orthogonal Designs. 2011, 5, 81-98	24
1012	Simplified method for seismic risk assessment of buildings with consideration of aleatory and epistemic uncertainty. 2011, 1-15	12

1011	Risk assessment of highway bridges under multiple hazards. 2011 , 14, 1057-1089	114
1010	Accurate emulators for large-scale computer experiments. 2011 , 39,	40
1009	Disentangling the formation of contrasting tree-line physiognomies combining model selection and Bayesian parameterization for simulation models. 2011 , 177, E136-52	35
1008	Sensitivity of distributions of climate system properties to the surface temperature dataset. 2011 , 38, n/a-n/a	21
1007	Probabilistic Robustness Assessment of Pre-Northridge Steel Moment Resisting Frames. 2011 , 137, 925-934	28
1006	The Risk Analysis of Long Term Impact to Reservoir under Extreme Hydrologic Events in the Reservoir, a Case Study. 2011 ,	3
1005	Hydro-Meteorology and Water Budget of the Mara River Basin Under Land Use Change Scenarios. 2011 , 39-68	30
1004	Latin Hypercube Sampling Techniques for Power Systems Reliability Analysis With Renewable Energy Sources. 2011 , 26, 2066-2073	110
1003	Stochastic Optimization Methods in Finance and Energy. 2011 ,	15
1002	Comparison of Sampling Methods for a Dynamic Pressure Regulator. 2011 ,	1
1001	Integrating User-Preference Swarm Algorithm and Surrogate Modeling for Airfoil Design. 2011 ,	5
1000	A Modified Complex Algorithm Applied to Robust Design Optimization. 2011 ,	2
999	Using Kriging Models to Perform Sensitivity Analysis. 2011 ,	1
998	Designed Simulation Experiments, Part 1: Roots, Myths, and Limitations of Conventional DOE. 2011 ,	2
997	Designed Simulation Experiments, Part 2: DOE for the Digital Age. 2011 ,	0
996	Tolerance optimization of a mobile phone camera lens system. 2011 , 50, 4688-700	9
995	Treating an artificial catchment as ungauged: Increasing the plausibility of an uncalibrated, process-based SVAT scheme by using additional soft and hard data. 2011 , 36, 615-629	6
994	Water Distribution Network Pressure-Driven Analysis Using the Enhanced Global Gradient Algorithm (EGGA). 2011 , 137, 498-510	30

993	Towards robust topology of sparsely sampled data. 2011 , 17, 1852-61	16
992	REVIEW OF METAMODELING TECHNIQUES FOR PRODUCT DESIGN WITH COMPUTATION-INTENSIVE PROCESSES. 2011 ,	3
991	Uniform Bound on Normal Approximation of Latin Hypercube Sampling. 2011 , 3,	
990	Impact of Climate Change on Runoff Variability in Intake Area of Middle Route of South-to-North Water Diversion Project. 2011 , 18, 35-41	
989	Hydrologic Evaluation of a Mediterranean Watershed Using the SWAT Model with Multiple PET Estimation Methods. 2011 , 54, 1615-1625	14
988	Quantifying uncertainty in urban flooding analysis considering hydro-climatic projection and urban development effects. 2011 , 15, 617-633	74
987	How Do Terrorist Cells Self-Assemble: Insights from an Agent-Based Model of Radicalization. 2011 ,	8
986	Impact of Parameter Uncertainty on Critical SWAT Output Simulations. 2011 , 54, 461-471	15
985	Global optimization of well placement for geological storage of CO ₂ using iterative Latin hypercube samplings. 2011 , 76, 233-243	2
984	Construction of Optimal Artificial Neural Network Architectures for Application to Chemical Systems: Comparison of Generalized Pattern Search Method and Evolutionary Algorithm. 2011 ,	
983	A framework for model-based optimization of bioprocesses under uncertainty. 2011 , 1455-1459	3
982	Use of GPU Computing for Uncertainty Quantification in Computational Mechanics: A Case Study. 2011 , 19, 199-212	5
981	Free Vibration Analysis of Composite Plates via Refined Theories Accounting for Uncertainties. 2011 , 18, 537-554	10
980	Identification of Critical Molecular Components in a Multiscale Cancer Model Based on the Integration of Monte Carlo, Resampling, and ANOVA. 2011 , 2, 35	20
979	Investigation about Predictive Accuracy of Empirical Engine Models using Design of Experiments. 2011 ,	3
978	Using interpolation to estimate system uncertainty in gene expression experiments. 2011 , 6, e22071	2
977	Uncertainty Quantification of Turbulence Model Coefficients via Latin Hypercube Sampling Method. 2011 , 133,	26
976	Monte Carlo Simulation for Quantitative Health Risk Analysis. 2011 ,	1

975	Emulation of a complex global aerosol model to quantify sensitivity to uncertain parameters. 2011 , 11, 12253-12273	104
974	Source apportionment of carbonaceous aerosol in southern Sweden. 2011 , 11, 11387-11400	60
973	Source apportionment of the carbonaceous aerosol in Norway [quantitative estimates based on $\delta^{13}C$, thermal-optical and organic tracer analysis. 2011 , 11, 9375-9394	63
972	Initial data sampling in design optimization. 2011 ,	
971	Reliability of a new biokinetic model of zirconium in internal dosimetry: part II, parameter sensitivity analysis. 2011 , 101, 677-92	7
970	Improving damage resistance of a composite pole using a computer experiment strategy. 2011 , 164, 171-181	1
969	Efficient emulators of computer experiments using compactly supported correlation functions, with an application to cosmology. 2011 , 5,	56
968	Efficient Methodology for Benchmarking Dynamic Origin-Destination Demand Estimation Methods. 2011 , 2263, 35-44	1
967	Multi-Objective Design Optimization for a Steam Turbine Stator Blade Using LES and GA. 2011 , 5, 134-147	15
966	Integrated and Continuing Transportation Services for Seniors: Case Studies of New Freedom Program. 2011 , 2265, 161-169	5
965	An empirical study of the prediction performance of space-filling designs. 2011 , 2, 1	8
964	Kriging Numerical Models for Geotechnical Reliability Analysis. 2011 , 51, 1169-1177	36
963	Comparison of Gene Expression Programming and Common Metamodeling Techniques in Engineering Design. 2011 ,	1
962	Moment independent importance measures: new results and analytical test cases. 2011 , 31, 404-28	112
961	Mate limitation causes sexes to coevolve towards more similar dispersal kernels. 2011 , 120, 1459-1468	16
960	Water Quality Model Uncertainty Analysis of a Point-Point Source Phosphorus Trading Program1. 2011 , 47, 1317-1337	12
959	Density of Ixodes scapularis ticks on Monhegan Island after complete deer removal: a question of avian importation?. 2011 , 36, 11-23	18
958	Probabilistic simulation of cable performance and water based protection in cable tunnel fires. 2011 , 241, 5263-5274	16

957	Biofuels: A model based assessment under uncertainty applying the Monte Carlo method. 2011 , 33, 92-126	21
956	Design optimization of electric vehicle battery cooling plates for thermal performance. 2011 , 196, 10359-10368	76
955	Influence of input PDF parameters of a model on a failure probability estimation. 2011 , 19, 2244-2255	19
954	On the generation of flight dynamics aerodynamic tables by computational fluid dynamics. 2011 , 47, 597-620	66
953	M-PRES: a statistical tool for modelling the impact of manufacturing process variations on circuit-level performance parameters. 2011 , 5, 403	2
952	Tuner: principled parameter finding for image segmentation algorithms using visual response surface exploration. 2011 , 17, 1892-901	72
951	Probabilistic uncertainty analysis of an FRF of a structure using a Gaussian process emulator. 2011 , 25, 2962-2975	43
950	Uncertainty in seismic slope deformation model predictions. 2011 , 122, 61-72	40
949	A random field based technique for the efficiency enhancement of bridge network life-cycle analysis under uncertainty. 2011 , 33, 3208-3217	16
948	Use of global sensitivity analysis in quantitative microbial risk assessment: application to the evaluation of a biological time temperature integrator as a quality and safety indicator for cold smoked salmon. 2011 , 28, 755-69	11
947	Towards inverse modeling of turbidity currents: The inverse lock-exchange problem. 2011 , 37, 521-529	10
946	Global sensitivity analysis of large-scale numerical landslide models based on Gaussian-Process meta-modeling. 2011 , 37, 917-927	47
945	A metamodel-assisted evolutionary algorithm for expensive optimization. 2011 , 236, 759-764	22
944	Application of scaling and sensitivity analysis for tumor-immune model reduction. 2011 , 66, 5164-5172	3
943	Methods for Biochemical Model Decomposition and Quantitative Submodel Comparison. 2011 , 51, 151-164	2
942	Uncertainties on lung doses from inhaled plutonium. 2011 , 176, 494-507	30
941	A methodology for multivariate simulation with massively parallel computing systems for NPP safety assessment: VARIA code. 2011 , 20, 249-259	3
940	Monitoring and identification of spatiotemporal landscape changes in multiple remote sensing images by using a stratified conditional Latin hypercube sampling approach and geostatistical simulation. 2011 , 177, 353-73	10

939	Risk assessment models for invasive species: uncertainty in rankings from multi-criteria analysis. 2011 , 13, 239-253		31
938	Space-filling Latin hypercube designs for computer experiments. <i>Optimization and Engineering</i> , 2011 , 12, 611-630	2.1	90
937	Inverse meta-modelling to estimate soil available water capacity at high spatial resolution across a farm. 2011 , 12, 421-438		13
936	Response of a glass/phenolic composite to high temperatures. 2011 , 103, 543-553		5
935	A simple mass-action model for the eukaryotic heat shock response and its mathematical validation. 2011 , 10, 595-612		42
934	Snow water equivalent prediction using Bayesian data assimilation methods. 2011 , 25, 253-270		88
933	Climate model errors, feedbacks and forcings: a comparison of perturbed physics and multi-model ensembles. 2011 , 36, 1737-1766		203
932	Optimal tuning of a GCM using modern and glacial constraints. 2011 , 37, 705-719		26
931	Uncertainties in chemical modelling of solubility, speciation and sorption. 2011 , 16, 207-214		3
930	Surrogate-based modeling and dimension reduction techniques for multi-scale mechanics problems. 2011 , 27, 845-865		23
929	Application of optimization methodology and specimen-specific finite element models for investigating material properties of rat skull. 2011 , 39, 85-95		22
928	A stochastic visco-hyperelastic model of human placenta tissue for finite element crash simulations. 2011 , 39, 1074-83		12
927	Robust airfoil optimization based on improved particle swarm optimization method. 2011 , 32, 1245-1254		17
926	Statistical Analysis of Ground Motions Estimated on the Basis of a Recipe for Strong-motion Prediction: Approach to Quantitative Evaluation of Average and Standard Deviation of Ground Motion Distribution. 2011 , 168, 141-153		4
925	A Krylov-Arnoldi reduced order modelling framework for efficient, fully coupled, structural-acoustic optimization. 2011 , 43, 495-517		14
924	Tolerance allocation of assemblies using fuzzy comprehensive evaluation and decision support process. 2011 , 55, 379-391		26
923	Block-circulant matrices for constructing optimal Latin hypercube designs. <i>Journal of Statistical Planning and Inference</i> , 2011 , 141, 1933-1943	0.8	18
922	From screening to quantitative sensitivity analysis. A unified approach. 2011 , 182, 978-988		225

921	Global sensitivity analysis in welding simulationsWhat are the material data you really need?. 2011 , 47, 1004-1016	26
920	Assessment of structural simulation models by estimating uncertainties due to model selection and model simplification. <i>Computers and Structures</i> , 2011 , 89, 1664-1672	4-5 30
919	Preference-oriented form design: application to carsHeadlights. 2011 , 5, 17-27	16
918	A Modelling Framework for Optimisation of Commodity Production by Minimising the Impact of Climate Change. 2011 , 4, 201-222	7
917	Modeling spatial uncertainty of heavy metal content in soil by conditional Latin hypercube sampling and geostatistical simulation. 2011 , 62, 299-311	13
916	Conditioning DRASTIC model to simulate nitrate pollution case study: HamadanBahar plain. 2011 , 63, 1155-1167	27
915	Sampling strategies and stopping criteria for stochastic dual dynamic programming: a case study in long-term hydrothermal scheduling. 2011 , 2, 1-31	84
914	Construction of column-orthogonal designs for computer experiments. 2011 , 54, 2683-2692	21
913	A new class of Latin hypercube designs with high-dimensional hidden projective uniformity. 2011 , 6, 1085-1093	1
912	Addressing equity issue in multi-actor policymaking via a system-of-systems approach: Aviation emissions reduction case study. 2011 , 20, 1-24	9
911	Strategic treatment interruptions during imatinib treatment of chronic myelogenous leukemia. 2011 , 73, 1082-100	14
910	Comparison of Monte Carlo simulations of cytochrome b6f with experiment using Latin hypercube sampling. 2011 , 73, 2152-74	5
909	A simple work flow for biologically inspired model reduction--application to early JAK-STAT signaling. 2011 , 5, 30	22
908	Finite element model updating of a semi-rigid moment resisting structure. 2011 , 18, 149-168	15
907	Gaussian process emulators for the stochastic finite element method. 2011 , 87, 521-540	30
906	Global sensitivity analysis for models with spatially dependent outputs. 2011 , 22, 383-397	57
905	Global-scale river routingAn efficient time-delay algorithm based on HydroSHEDS high-resolution hydrography. 2011 , 25, 1114-1128	30
904	Interpretation of non-linear empirical data-based process models using global sensitivity analysis. 2011 , 107, 116-123	8

903	Design for Six Sigma through collaborative multiobjective optimization. 2011 , 60, 43-55		37
902	Efficient meta-modelling of complex process simulations with time-space-dependent outputs. 2011 , 35, 502-509		29
901	Formulation of the Audze-Eglais uniform Latin hypercube design of experiments for constrained design spaces. 2011 , 42, 680-689		32
900	Structural optimization by wavelet transforms and neural networks. 2011 , 35, 915-929		35
899	A comparative study of boundary-based intelligent sampling approaches for nonlinear optimization. 2011 , 11, 2227-2238		6
898	Nonlinear methods for inverse statistical problems. <i>Computational Statistics and Data Analysis</i> , 2011 , 55, 132-142	1.6	13
897	Multi-objective optimization of a cooling channel with staggered elliptic dimples. 2011 , 36, 3419-3428		34
896	Sensitivity analysis for complex ecological models – A new approach. 2011 , 26, 124-134		94
895	Application of a pseudo simulator to evaluate the sensitivity of parameters in complex watershed models. 2011 , 26, 135-143		34
894	Combined heat and power economic dispatch by mesh adaptive direct search algorithm. 2011 , 38, 6556-6564		51
893	Time-dependent reliability of corrosion-affected RC beams. Part 2: Estimation of time-dependent failure probability. 2011 , 241, 1385-1394		17
892	How to effectively compute the reliability of a thermal-hydraulic nuclear passive system. 2011 , 241, 310-327		31
891	Time-dependent reliability of corrosion-affected RC beams Part 1: Estimation of time-dependent strengths and associated variability. 2011 , 241, 1371-1384		20
890	Transonic aeroelastic simulation for instability searches and uncertainty analysis. 2011 , 47, 392-423		56
889	An inverse parameter identification procedure assessing the quality of the estimates using Bayesian neural networks. 2011 , 11, 3357-3367		7
888	Orthogonal designs for computer experiments. <i>Journal of Statistical Planning and Inference</i> , 2011 , 141, 1519-1525	0.8	16
887	An integrated model for biological and physical process simulation in membrane bioreactors (MBRs). 2011 , 376, 56-69		65
886	Time-dependent reliability of corrosion-affected RC beams. Part 3: Effect of corrosion initiation time and its variability on time-dependent failure probability. 2011 , 241, 1395-1402		13

885	Constraining uncertainty in volumetric estimation: A case study from Namorado Field, Brazil. <i>Journal of Petroleum Science and Engineering</i> , 2011 , 77, 200-208	4.4	12
884	Batch sequential design to achieve predictive maturity with calibrated computer models. 2011 , 96, 1208-1219		25
883	Mixed aleatory-epistemic uncertainty quantification with stochastic expansions and optimization-based interval estimation. 2011 , 96, 1092-1113		112
882	Multivariate sensitivity analysis to measure global contribution of input factors in dynamic models. 2011 , 96, 450-459		123
881	Quantification of margins and uncertainties: Example analyses from reactor safety and radioactive waste disposal involving the separation of aleatory and epistemic uncertainty. 2011 , 96, 1014-1033		30
880	The dangers of sparse sampling for the quantification of margin and uncertainty. 2011 , 96, 1220-1231		14
879	Quantification of Margins and Uncertainties. 2011 , 96, 959-964		10
878	Quantification of margins and uncertainties: Conceptual and computational basis. 2011 , 96, 976-1013		47
877	Life-cycle cost assessment of optimally designed reinforced concrete buildings under seismic actions. 2011 , 96, 1311-1331		73
876	Privacy preservation by independent component analysis and variance control. 2011 ,		
875	Follow-Up Experimental Designs for Computer Models and Physical Processes. 2011 , 5, 119-136		9
874	Analysis of the distribution of specific absorption rate induced by five plane waves with a fast and new method in Visible Human. 2011 ,		
873	Designing a Computer Experiment That Involves Switches. 2011 , 5, 47-57		5
872	Economic dispatch considering volatile wind power generation with lower-semi-deviation risk measure. 2011 ,		4
871	A study of surrogate models for their use in multiobjective evolutionary algorithms. 2011 ,		8
870	Efficiently estimating mean shift due to variability. 2011 ,		
869	Experience Transfer for the Configuration Tuning in Large-Scale Computing Systems. 2011 , 23, 388-401		9
868	Study on Random Analysis Method and its Application to Structures. 2011 , 183-185, 734-738		

867	Uncertainty Analysis of Creep and Shrinkage Effects in Long-Span Continuous Rigid Frame of Sutong Bridge. 2011 , 16, 248-258		37
866	An Adaptive Surrogate Model Applied to the Design Optimizations of Waverider-Based Hypersonic Vehicle. 2011 , 110-116, 5118-5122		
865	Kriging metamodeling in multiple-objective simulation optimization. 2011 , 87, 843-856		16
864	Global Optimization Method Based on Incremental Radial Basis Functions. 2011 , 121-126, 3950-3954		
863	Applying Dynamic Surrogate Models in Noisy Genetic Algorithms to Optimize Groundwater Remediation Designs. 2011 , 137, 284-292		47
862	Aerodynamic Optimization of an Over-the-Wing-Nacelle-Mount Configuration. 2011 , 2011, 1-13		9
861	Reliability Analysis of Embankment Slope in Yaan-Luku Expressway. 2011 , 71-78, 1360-1365		1
860	Slope Instability Risk Analysis in Earth Dams Using LHS-MC Method. 2011 , 90-93, 2503-2506		
859	Optimization of a wheel profile accounting for design robustness. 2011 , 225, 433-442		8
858	Sudoku-based space-filling designs. 2011 , 98, 711-720		18
857	Evaluation of Combination Rules for Orthogonal Seismic Demands in Nonlinear Time History Analysis of Bridges. 2011 , 16, 711-717		15
856	Adaptive Probability-Based Latin Hypercube Designs. <i>Journal of the American Statistical Association</i> , 2011 , 106, 213-219	2.8	12
855	Sequential Sampling With Kernel-Based Bayesian Network Classifiers. 2011 ,		1
854	Comparison of Meta-Modeling Approaches for Optimization. 2011 ,		6
853	Surrogate-Based Modeling and Dimension-Reduction Techniques for Thermo-Fluid and Energy Systems. 2011 ,		1
852	Design optimization of a sport shoe sole structure by evolutionary computation and finite element method analysis. 2011 , 225, 179-188		11
851	Implementing co-evolution and parallelization in a multi-objective particle swarm optimizer. 2011 , 43, 635-656		7
850	The development of a hybridized particle swarm for kriging hyperparameter tuning. 2011 , 43, 675-699		46

849	Emergence of Resistance in Influenza With Compensatory Mutations. 2011 , 18, 106-121		9
848	Ensemble Evaluation of Hydrologically Enhanced Noah-LSM: Partitioning of the Water Balance in High-Resolution Simulations over the Little Washita River Experimental Watershed. 2011 , 12, 45-64		14
847	A Simple Approach to Emulation for Computer Models With Qualitative and Quantitative Factors. <i>Technometrics</i> , 2011 , 53, 266-273	1.4	85
846	Nested orthogonal array-based Latin hypercube designs. 2011 , 98, 721-731		15
845	Addressing the impact of environmental uncertainty in plankton model calibration with a dedicated software system: the Marine Model Optimization Testbed (MarMOT). 2011 ,		
844	A new dust cycle model with dynamic vegetation: LPJ-dust version 1.0. 2011 , 4, 85-105		8
843	Regression-Based Inverse Distance Weighting With Applications to Computer Experiments. <i>Technometrics</i> , 2011 , 53, 254-265	1.4	31
842	Dependency of Feedbacks on Forcing and Climate State in Physics Parameter Ensembles. 2011 , 24, 6440-6455		54
841	Method for Assessing Impacts of Parameter Uncertainty in Sediment Transport Modeling Applications. 2011 , 137, 623-636		16
840	On Constraining Estimates of Climate Sensitivity with Present-Day Observations through Model Weighting. 2011 , 24, 6092-6099		110
839	A new hybrid method for optimal circuit design using semi-definite programming. 2012 , 44, 725-740		8
838	On the Use of Emulators with Extreme and Highly Nonlinear Geophysical Simulators. 2012 , 29, 1704-1715		8
837	Uncertainty and Sensitivity of Neutron Kinetic Parameters in the Dynamic Response of a PWR Rod Ejection Accident Coupled Simulation. 2012 , 2012, 1-10		4
836	Noncollapsing Space-Filling Designs for Bounded Nonrectangular Regions. <i>Technometrics</i> , 2012 , 54, 169-178		46
835	Form Factor and Critical Mach Number Estimation for Finite Wings. 2012 , 49, 173-182		1
834	The Comparison of Two Methods on the Reliability of Ship Collision for Bridge Based on Applied Mechanics. 2012 , 485, 608-615		
833	Retrospective analysis of a listeria monocytogenes contamination episode in raw milk goat cheese using quantitative microbial risk assessment tools. 2012 , 75, 2122-35		4
832	Multi-variable sensitivity and identifiability analysis for a complex environmental model in view of integrated water quantity and water quality modeling. 2012 , 65, 539-49		42

831	Constructing Surrogate Models for Springback in U-Bending Process. 2012 , 445, 177-182	
830	Seismic Risk Analysis of Concrete Gravity Dams under Near-Fault Ground Motions. 2012 , 256-259, 2240-2243	1
829	Evolutionary optimization of low-discrepancy sequences. 2012 , 22, 1-25	23
828	Estimating the population prevalence and force of infection directly from antibody titres. 2012 , 12, 441-462	18
827	Vector host-feeding preferences drive transmission of multi-host pathogens: West Nile virus as a model system. 2012 , 279, 925-33	104
826	Quantification of Model Uncertainty: Calibration, Model Discrepancy, and Identifiability. 2012 , 134,	163
825	Computationally Efficient Modeling Method for Large Water Network Analysis. 2012 , 138, 313-326	25
824	Decades of Wind Turbine Load Simulation. 2012 ,	5
823	Measuring the vertical distributional variability of pelagic fauna in Monterey Bay. 2012 , 69, 184-196	40
822	Constructing nearly orthogonal latin hypercubes for any nonsaturated run-variable combination. 2012 , 22, 1-17	18
821	On the effect of response transformations in sequential parameter optimization. 2012 , 20, 229-48	27
820	A Bayesian Meta-Modeling Approach for Gaussian Stochastic Process Models Using a Non Informative Prior. 2012 , 41, 829-850	
819	Novel numerical and computational strategies based on differential evolutionary strategy. 2012 ,	
818	A generalised collaborative optimisation method and its combination with kriging metamodels for engineering design. 2012 , 23, 379-399	26
817	Handling Constraints in Surrogate-Based Optimization. 2012 ,	1
816	Toward an Unsteady Aerodynamic ROM for Multiple Mach Regimes. 2012 ,	8
815	Surrogate-Based Design Optimization with Adaptive Sequential Sampling. 2012 ,	4
814	Frontiers in Statistical Quality Control 10. 2012 ,	2

813	Thunderstorm Risks to Wind Farms. 2012,	
812	Global Optimization Using Mixed Surrogates and Space Elimination in Computationally Intensive Engineering Designs. 2012, 13, 272-289	4
811	Robust Regression Metamodelling of Complex Systems: The Case of Solid Rocket Motor Performance Metamodelling. 2012, 221-251	1
810	A CENTRAL LIMIT THEOREM FOR LATIN HYPERCUBE SAMPLING WITH DEPENDENCE AND APPLICATION TO EXOTIC BASKET OPTION PRICING. 2012, 15, 1250046	14
809	Adaptive surrogate-based design optimization with expected improvement used as infill criterion. 2012, 61, 661-684	11
808	Uncertainty Quantification in Scientific Computing. 2012,	8
807	Projection-based curve clustering. 2012, 82, 1145-1168	13
806	. 2012,	
805	An emulator-based rapid source localization approach in informative sensor planning. 2012,	
804	A comparative study of the scalability of alternative metamodelling techniques. 2012, 44, 767-786	16
803	Near-Optimal Feedback Strategies for Optimal Control and Pursuit-Evasion Games: A Spatial Statistical Approach. 2012,	4
802	Optimization of cardiovascular stent design using computational fluid dynamics. 2012, 134, 011002	65
801	Addressing the impact of environmental uncertainty in plankton model calibration with a dedicated software system: the Marine Model Optimization Testbed (MarMOT 1.1 alpha). 2012, 5, 471-498	18
800	The effect of uncertain parameters on evacuation time in commercial buildings. 2012, 30, 55-67	13
799	Uncertainty Analysis in Population-Based Disease Microsimulation Models. 2012, 2012, 1-14	10
798	Techniques for grounding agent-based simulations in the real domain: a case study in experimental autoimmune encephalomyelitis. 2012, 18, 67-86	37
797	A mathematical model for cell cycle-specific cancer virotherapy. 2012, 6 Suppl 1, 104-20	35
796	Mathematical modeling reveals the functional implications of the different nuclear shuttling rates of Erk1 and Erk2. 2012, 9, 036001	6

795	Accelerated evaluation of the robustness of treatment plans against geometric uncertainties by Gaussian processes. 2012 , 57, 8023-39		10
794	Gas Turbine Blade Stress and Temperature Sensitivity to Turbine Inlet Profile and Cooling Flow. 2012 ,		1
793	Three-Dimensional Design Optimization of Multistage Axial Flow Turbines Using a RSM Based Approach. 2012 ,		3
792	Surrogate Modeling of Multistage Assembly Processes Using Integrated Emulation. 2012 , 134,		5
791	A Sequential Sampling Strategy to Improve Reliability-Based Design Optimization With Implicit Constraint Functions. 2012 , 134,		43
790	Calibration of Gas Turbine Blade Temperature Predictions Using Surrogate Models. 2012 ,		
789	Design of nonlinear MPC by Kriging-based optimization. 2012 , 45, 1490-1495		3
788	Projecting the transmission dynamics of SARS-CoV-2 through the postpandemic period. 2020 , 368, 860-868		1506
787	Probabilistic modelling of prestressed concrete roof girders. 2020 , 310, 00055		
786	Robust bioenergy technologies for the German heat transition: A novel approach combining optimization modeling with Sobol sensitivity analysis. <i>Applied Energy</i> , 2020 , 262, 114534	10.7	10
785	On the micromechanics of deep material networks. 2020 , 142, 103984		20
784	A perspective on the data-driven design of polymer nanodielectrics. 2020 , 53, 333001		6
783	A hydrodynamic prediction model of throttle orifice plate using space filling and adaptive sampling method. 2020 , 62, 1563-1578		1
782	Coordinated robust optimal design of building envelope and energy systems for zero/low energy buildings considering uncertainties. <i>Applied Energy</i> , 2020 , 265, 114779	10.7	10
781	A new family of reduced models for non-isothermal falling films. 2020 , 154, 119700		3
780	Operational Optimization of Polymerization Reactors with Computational Fluid Dynamics and Embedded Molecular Weight Distribution Using the Iterative Surrogate Model Method. 2020 , 59, 9165-9179		5
779	Linking Light-Dependent Life History Traits with Population Dynamics for and Cyanophage. 2020 , 5,		4
778	Study on application of artificial neural network to debris bed coolability calculations for sodium-cooled fast reactors. 2020 , 7, 19-00541-19-00541		1

777	Application and characterization of metamodels based on artificial neural networks for building performance simulation: A systematic review. 2020 , 217, 109972		38
776	Seismic fragility analysis in the probabilistic performance-based earthquake engineering framework: an overview. 2021 , 13, 122-135		9
775	Latin hypercube designs based on strong orthogonal arrays and Kriging modelling to improve the payload distribution of trains. 2021 , 48, 498-516		0
774	Topology optimization of blank holders based on a kriging-interpolated level-set method. 2021 , 53, 662-682		3
773	A unified ensemble of surrogates with global and local measures for global metamodeling. 2021 , 53, 474-495		11
772	A budget allocation strategy minimizing the sample set quantile for initial experimental design. <i>IISE Transactions</i> , 2021 , 53, 39-57	3-3	2
771	Handling of Constraints in Efficient Global Optimization. 2021 , 18, 2050033		1
770	Towards the development of quantitative resilience indices for Multi-Echelon Assembly Supply Chains. 2021 , 99, 102199		8
769	Maximum expected entropy transformed Latin hypercube designs. 2021 , 48, 2152-2177		0
768	Proceedings of the Fifth International Conference in Ocean Engineering (ICOE2019). 2021 ,		1
767	Long term and safe relative orbit design for heterogeneous spacecraft clusters. 2021 , 67, 3546-3558		
766	Sweep-Net: An Artificial Neural Network for radiation transport solves. 2021 , 426, 109757		1
765	Bayesian optimization of variable-size design space problems. <i>Optimization and Engineering</i> , 2021 , 22, 387-447	2.1	3
764	Simulation and Emulation of X-Ray Diffraction from Dynamic Compression Experiments. 2021 , 7, 170-187		1
763	A novel multi-objective optimization method for well control parameters based on PSO-LSSVR proxy model and NSGA-II algorithm. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 196, 107694	4.4	11
762	Advances in High Performance Computing. 2021 ,		
761	Hydrodynamic hull form optimization of fast catamarans using surrogate models. 2021 , 68, 14-26		4
760	3D slope reliability analysis based on the intelligent response surface methodology. 2021 , 80, 735-749		6

759	Uncertainty and sensitivity analysis by Monte Carlo simulation: Recovery of trans-resveratrol from grape cane by pressurised low polarity water system. 2021 , 292, 110366	4
758	An improved shear modified GTN model for ductile fracture of aluminium alloys under different stress states and its parameters identification. 2021 , 192, 106081	11
757	Neural network ensemble-based sensitivity analysis in structural engineering: Comparison of selected methods and the influence of statistical correlation. <i>Computers and Structures</i> , 2021 , 242, 106345	10
756	Research on college students' physical exercise trend based on compartment model. 2021 , 180, 24-42	1
755	Statistical model for fragility estimates of offshore wind turbines subjected to aero-hydro dynamic loads. 2021 , 163, 1495-1507	6
754	Population dynamics of Varroa mite and honeybee: Effects of parasitism with age structure and seasonality. 2021 , 440, 109359	4
753	Advanced hydrological streamflow simulation in a watershed using adjusted radar-rainfall estimates as meteorological input data. 2021 , 277, 111393	2
752	A note on tools for prediction under uncertainty and identifiability of SIR-like dynamical systems for epidemiology. 2021 , 332, 108514	8
751	A finite element model updating method based on global optimization. 2021 , 152, 107372	12
750	An effective approach for high-dimensional reliability analysis of train-bridge vibration systems via the fractional moment. 2021 , 151, 107344	3
749	Analysis and Design Optimization of Micromixers. 2021 ,	1
748	Practice of Bayesian Probability Theory in Geotechnical Engineering. 2021 ,	1
747	Three calibration techniques combined with sample-effective design of experiment based on Latin hypercube sampling for direct detection of lanthanides in REE-rich ores using TXRF and WDXRF. 2021 , 36, 224-232	6
746	Semi-analytical modeling of the flow redistribution upstream from the mixing grids in a context of nuclear fuel assembly bow. 2021 , 371, 110940	2
745	Accelerating Gaussian Process surrogate modeling using Compositional Kernel Learning and multi-stage sampling framework. 2021 , 104, 106909	
744	Utilizing Gaussian processes to fit high dimension thermodynamic data that includes estimated variability. 2021 , 188, 110133	2
743	Machine learning for metabolic engineering: A review. 2021 , 63, 34-60	41
742	Robust tuning and sensitivity analysis of stochastic integer and fractional-order PID control systems: application of surrogate-based robust simulation-optimization. 2021 , 34, e2835	2

741	Thermal reliability-based design optimization using Kriging model of PCM based pin fin heat sink. 2021 , 166, 120745		18
740	Significance evaluation of performance factors on horizontal spiral-coil ground heat exchangers. 2021 , 35, 102044		4
739	Bayesian Analysis of Multifidelity Computer Models With Local Features and Nonnested Experimental Designs: Application to the WRF Model. <i>Technometrics</i> , 2021 , 1-13	1.4	1
738	Gaussian process enhanced semi-automatic approximate Bayesian computation: parameter inference in a stochastic differential equation system for chemotaxis. 2021 , 429, 109999		1
737	Investigation of the effects of materials and dry granulation process on the mirabegron tablet by integrated QbD approach with multivariate analysis. 2021 , 382, 23-39		1
736	Computational Methods in Heterogeneous Catalysis. 2021 , 121, 1007-1048		61
735	Accounting for model errors of rock physics models in 4D seismic history matching problems: A perspective of machine learning. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 196, 107961	4.4	7
734	Improving tail accuracy of the predicted cumulative distribution function of time of failure. 2021 , 207, 107333		0
733	Markov chain Monte Carlo with Gaussian processes for fast parameter estimation and uncertainty quantification in a 1D fluid-dynamics model of the pulmonary circulation. 2021 , 37, e3421		4
732	Adaptive approaches in metamodel-based reliability analysis: A review. 2021 , 89, 102019		31
731	Recent progress of uncertainty quantification in small-scale materials science. 2021 , 117, 100723		7
730	Adaptive sequential predictive maintenance policy with nonperiodic inspection for hard failures. 2021 , 37, 1173-1185		2
729	Gaussian process assisted stochastic dynamic analysis with applications to near-periodic structures. 2021 , 149, 107218		9
728	Machine learning-based approaches for seismic demand and collapse of ductile reinforced concrete building frames. 2021 , 34, 101905		15
727	Hybrid Ray Tracing Model and Particle Swarm Optimization for the Performance of an Internally Reflecting Solar Still with a Booster Reflector. 2021 , 46, 2021-2032		
726	Practical algorithms for multivariate rational approximation. 2021 , 261, 107663		2
725	Batch Bayesian optimization via adaptive local search. 2021 , 51, 1280-1295		3
724	Purposeful cross-validation: a novel cross-validation strategy for improved surrogate optimizability. 2021 , 53, 1558-1573		3

723	Multi-fidelity surrogate-based optimization for decomposed buffer allocation problems. 2021 , 43, 223-253		0
722	Many-objective optimization for a deep-sea aquaculture vessel based on an improved RBF neural network surrogate model. 2021 , 26, 582-605		6
721	Distance-Distributed Design for Gaussian Process Surrogates. <i>Technometrics</i> , 2021 , 63, 40-52	1.4	11
720	Sensitivity analysis of the critical speed in a railway bogie system with uncertain parameters. 2021 , 59, 224-244		4
719	Flexible sliced Latin hypercube designs with slices of different sizes. 2021 , 62, 1117-1134		1
718	Simultaneous Model Calibration and Source Inversion in Atmospheric Dispersion Models. 2021 , 178, 757-776		1
717	Surrogate-Based Design Optimisation Tool for Dual-Phase Fluid Driving Jet Pump Apparatus. 2021 , 28, 53-89		3
716	Stochastic Finite Element Analysis of Shear-Critical Concrete Structures. 2021 ,		0
715	A Decision Variable Assortment-Based Evolutionary Algorithm for Dominance Robust Multiobjective Optimization. 2021 , 1-16		4
714	Model-assisted DoE software: optimization of growth and biocatalysis in <i>Saccharomyces cerevisiae</i> bioprocesses. 2021 , 44, 683-700		4
713	A Comparative Study of Machine Learning Algorithms in Predicting the Behavior of Truss Structures. 2021 , 279-289		1
712	Integrating Prediction in Mean-Variance Portfolio Optimization.		1
711	Neural network-based surrogate model for a bifurcating structural fracture response. 2021 , 241, 107424		2
710	Validating model-based data interpretation methods for quantification of reserve capacity. 2021 , 47, 101231		1
709	A reduced order model for boundary layer ingestion map prediction at fan inlet of rear-mounted engine nacelle. 2021 ,		
708	Pollination requirements of kiwifruit (<i>Actinidia chinensis</i> Planch.) differ between cultivars Blayward and Zesy002. 2021 , 49, 30-40		5
707	PSO-PARSIMONY: A New Methodology for Searching for Accurate and Parsimonious Models with Particle Swarm Optimization. Application for Predicting the Force-Displacement Curve in T-stub Steel Connections. <i>Lecture Notes in Computer Science</i> , 2021 , 15-26	0.9	1
706	Evaluation of 18 satellite- and model-based soil moisture products using in situ measurements from 826 sensors. 2021 , 25, 17-40		61

705	Prediction equation for the fundamental vibration period of concrete gravity dams with impounded water. 2021 , 37, 1710-1725	0
704	Drilling an Array of Monitoring Wells for a CCS Experiment: Lessons From Otway Stage 3.	1
703	SURROGATE MODEL OPTIMIZATION OF A MICRO CORE PWR FUEL ASSEMBLY ARRANGEMENT USING DEEP LEARNING MODELS. 2021 , 247, 12003	1
702	Optimization of bridges with short gap streamlined twin-box decks considering structural, flutter and buffeting performance. 2021 , 208, 104316	2
701	Output-Weighted Optimal Sampling for Bayesian Experimental Design and Uncertainty Quantification. 2021 , 9, 564-592	3
700	Scalable Approximate Computing Techniques for Latency and Bandwidth Constrained IoT Edge. 2021 , 274-292	
699	Mathematical modeling of the influence of cultural practices on cholera infections in Cameroon. 2021 , 18, 8374-8391	1
698	Probabilistic and Random FEM. 2021 , 455-483	
697	Scalable Epidemiological Workflows to Support COVID-19 Planning and Response. 2021 ,	1
696	Data-driven blended equations of state for condensed-phase explosives. 2021 , 25, 413-435	0
695	Global Sensitivity Analysis of Quantiles: New Importance Measure Based on Superquantiles and Subquantiles. 2021 , 13, 263	7
694	Multimomics Data Collection, Visualization, and Utilization for Guiding Metabolic Engineering. 2021 , 9, 612893	3
693	Comparing Filtering Multifidelity Optimization Strategies With a Simulation-Based Multidisciplinary Aircraft Model. 2021 , 143,	
692	Output-based flutter bifurcation forecasting in nonlinear fluid-structural systems with multiple varying parameters. 2021 , 101, 103201	2
691	An ANN-based surrogate model for wave propagation in uncertain media. 1-14	
690	Summit: Benchmarking Machine Learning Methods for Reaction Optimisation. 2021 , 1, 116-122	12
689	Soil properties and root traits jointly shape fine-scale spatial patterns of bacterial community and metabolic functions within a Korean pine forest. 2021 , 9, e10902	1
688	General framework for cosmological dark matter bounds using N-body simulations. 2021 , 103,	10

687	Parameter optimisation of a carrier-based UAV drawbar based on strain fatigue analysis. 2021 , 125, 1083-1102	1
686	A global model perturbed parameter ensemble study of secondary organic aerosol formation. 2021 , 21, 2693-2723	4
685	Bone mineral density modeling via random field: normality, stationarity, sex and age dependence.	
684	Mathematical modelling of the influence of serosorting on the population-level HIV transmission impact of pre-exposure prophylaxis. 2021 , 35, 1113-1125	4
683	Multi-objective optimization of ANN-based PSA model for hydrogen purification from steam-methane reforming gas. 2021 , 46, 11740-11755	16
682	A multi-scale pipeline linking drug transcriptomics with pharmacokinetics predicts in vivo interactions of tuberculosis drugs. 2021 , 11, 5643	2
681	Sensitivity Analysis of the Waterproof Performance of Elastic Rubber Gasket in Shield Tunnel. 2021 ,	1
680	How random are predictions of forest growth? The importance of weather variability. 2021 , 51, 349-356	0
679	Quantitative Prediction of Interactions in Bipartite Networks Based on Traits, Abundances, and Phylogeny.. 2022 , 199, 841-854	1
678	Uncertainty studies on hydrogen source term with MAAP5 code. 2021 , 86, 152-163	
677	Role of Hydrogen-bonded Bimolecular Formic Acid-Formate Complexes for Formic Acid Decomposition on Copper: A Combined First-Principles and Microkinetic Modeling Study. 2021 , 11, 4349-4361	8
676	Discrete-Direct Model Calibration and Uncertainty Propagation Method Confirmed on Multi-Parameter Plasticity Model Calibrated to Sparse Random Field Data. 2021 , 7,	
675	Zooplankton grazing of microplastic can accelerate global loss of ocean oxygen. 2021 , 12, 2358	16
674	Ultra-fast Model Emulation with PRISM: Analyzing the Meraxes Galaxy Formation Model. 2021 , 253, 50	
673	Accelerating the Generation of Static Coupling Injection Maps Using a Data-Driven Emulator.	0
672	Recirculation-groove coupled casing treatment for a transonic axial compressor. 2021 , 111, 106556	10
671	Towards a General Framework for ML-based Self-tuning Databases. 2021 ,	
670	Modelling the structural behaviour of a round nozzle to flat plate interface in pressure vessels. 2021 , 190, 104257	0

669	Sensitivity analysis and optimization of a CO ₂ centrifugal compressor impeller with a vaneless diffuser. 2021 , 64, 1607-1627		1
668	PERICLIMv1.0: a model deriving palaeo-air temperatures from thaw depth in past permafrost regions. 2021 , 14, 1865-1884		2
667	Well and ICV management in a carbonate reservoir with high gas content. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 200, 108345	4-4	1
666	Mooring Analysis of a Dual-Spar Floating Wind Farm With a Shared Line. 2021 , 143,		0
665	senSCOPE: Modeling mixed canopies combining green and brown senesced leaves. Evaluation in a Mediterranean Grassland. 2021 , 257, 112352		7
664	Assessment of strategy robustness under disruption of objective in dynamic fuel cycle studies. 2021 , 154, 108131		2
663	A practical extension of the recursive multi-fidelity model for the emulation of hole closure experiments.		1
662	Exploring the Experimental Design and Statistical Modeling of Cementitious Composite Systems Using Various Sampling Methods. 2021 , 19, 501-518		
661	Machine learning and simulation-based surrogate modeling for improved process chain operation. 2021 , 117, 2297		3
660	Constraining emission estimates of carbon monoxide using a perturbed emissions ensemble with observations: a focus on Beijing. 2021 , 14, 1587-1603		0
659	Euclid preparation: IX. EuclidEmulator2 power spectrum emulation with massive neutrinos and self-consistent dark energy perturbations. 2021 , 505, 2840-2869		10
658	Affirmative action, critical mass, and a predictive model of undergraduate student body demographics. 2021 , 16, e0250266		
657	A perturbed parameter ensemble of HadGEM3-GC3.05 coupled model projections: part 1: selecting the parameter combinations. 2021 , 56, 3395-3436		9
656	Mimicry of a Conceptual Hydrological Model (HBV): What's in a Name?. <i>Water Resources Research</i> , 2021 , 57, e2020WR029143	5-4	2
655	Sensitivity of bovine tuberculosis surveillance through intradermal tests in cattle in France: An evaluation of different scenarios. 2021 , 191, 105364		
654	In silico biomechanical design of the metal frame of transcatheter aortic valves: multi-objective shape and cross-sectional size optimization. 2021 , 64, 1825		2
653	Statistical emulation of a perturbed basal melt ensemble of an ice sheet model to better quantify Antarctic sea level rise uncertainties. 2021 , 15, 2683-2699		0
652	Efficient Global Sensitivity Analysis of Model-Based Ultrasonic Nondestructive Testing Systems Using Machine Learning and Sobol' Indices. 2021 , 4,		

651	Machine-learning of long-range sound propagation through simulated atmospheric turbulence. 2021 , 149, 4384		3
650	Parameterized coastal fragilities and their application to aging port structures subjected to surge and wave. 2021 , 237, 112235		2
649	Can hepatitis C elimination targets be sustained among people who inject drugs post-2030?. 2021 , 96, 103343		1
648	Construction of Improved Branching Latin Hypercube Designs. 2021 , 41, 1023-1033		0
647	Quantifying the effects of urban green space on water partitioning and ages using an isotope-based ecohydrological model. 2021 , 25, 3635-3652		8
646	Multi-Objective Optimization of Efficiency and Pressure Fluctuation for Vertical Inline Pump. 2021 , 774, 012005		
645	DEFT-FUNNEL: an open-source global optimization solver for constrained grey-box and black-box problems. 2021 , 40, 1		
644	An adaptive space preselection method for the multi-fidelity global optimization. 2021 , 113, 106728		3
643	Application of SWAT Using Snow Data and Detecting Climate Change Impacts in the Mountainous Eastern Regions of Turkey. 2021 , 13, 1982		3
642	Bayesian optimization for a multiple-component system with target values. 2021 , 157, 107310		3
641	Moment Matching: A New Optimization-Based Sampling Scheme for Uncertainty Quantification of Reactor-Physics Analysis. 1-18		0
640	A Closed-form Solution for Source-term Emission of Xenon Isotopes from Underground Nuclear Explosions. 2021 , 139, 131-153		1
639	How Bayesian should Bayesian optimisation be?. 2021 ,		
638	Bayesian neural architecture search using a training-free performance metric. 2021 , 106, 107356		0
637	Construction of space-filling orthogonal designs. <i>Journal of Statistical Planning and Inference</i> , 2021 , 213, 130-141	0.8	2
636	MERLIN: Una nueva herramienta para la predicci3n del riesgo de inundaciones en la demarcaci3n hidrogr3fica Galicia-Costa. 2021 , 25, 215		2
635	The stochastic aeroelastic response analysis of helicopter rotors using deep and shallow machine learning. 1		0
634	Optimal Design of a U-Shaped Oscillating Water Column Device Using an Artificial Neural Network Model. 2021 , 9, 1338		2

633	On the challenges of jointly optimising robot morphology and control using a hierarchical optimisation scheme. 2021 ,	1
632	Resource planning for hospitals under special consideration of the COVID-19 pandemic. 2021 ,	0
631	Bayesian Optimization Via Barrier Functions. 1-10	5
630	Asymptotically optimal maximin distance Latin hypercube designs. 1	
629	Dynamic multi-objective evolutionary algorithm with objective space prediction strategy. 2021 , 107, 107258	1
628	Trajectory tracking of an omnidirectional mobile robot using Gaussian process regression. 2021 , 69, 656-666	2
627	Towards the Experimentally-Informed Nozzle Design Optimization for Extrusion-Based Bioprinting of Shear-Thinning Hydrogels. 2021 , 9, 701778	6
626	A multi-objective optimization of stent geometries. 2021 , 125, 110575	2
625	The utility of Bayesian data reconciliation for separations. 2021 , 169, 106837	1
624	Determining the jet transport coefficient q from inclusive hadron suppression measurements using Bayesian parameter estimation. 2021 , 104,	2
623	An investigation of tuberculosis progression revealing the role of macrophages apoptosis via sensitivity and bifurcation analysis. 2021 , 83, 31	0
622	Sensitivity Analysis of Factors Influencing Accelerometer Hysteresis Based on Morris Screening Method. 2021 , 1986, 012060	
621	Shape Optimization of a Wooden Baseball Bat Using Parametric Modeling and Genetic Algorithms. 2021 , 2, 381-393	0
620	AutoMoG 3D: Automated Data-Driven Model Generation of Multi-Energy Systems Using Hinging Hyperplanes. 2021 , 9,	0
619	A seasonal model to assess intervention strategies for preventing periodic recurrence of Lassa fever. 2021 , 7, e07760	0
618	A robust elastic net via bootstrap method under sampling uncertainty for significance analysis of high-dimensional design problems. 2021 , 225, 107117	3
617	Analysis of Host Immunological Response of Adenovirus-Based COVID-19 Vaccines. 2021 , 9,	1
616	Efficient spreading strategy for global solution search using a trust-region optimization method: An application to the common-reflection-surface stacking problem. 2021 , 86, R723-R734	

615	Preliminary study on PFC3D microparameter calibration using optimization of an artificial neural network. 2021 , 833, 012096			1
614	Self-tuning portfolio-based Bayesian optimization. 2021 , 115847			0
613	Estimating Hydrothermal Properties and High-Frequency Fluxes From Geophysical Measurements in the Hyporheic Zone. 2021 , 3,			0
612	Homogenization-based optimum design of additively manufactured Voronoi cellular structures. 2021 , 45, 102057			0
611	Bayesian Inversion of Soil Hydraulic Properties from Simplified Evaporation Experiments: Use of DREAM(ZS) Algorithm. 2021 , 13, 2614			0
610	Sensitivity analysis of permeable pavement hydrological modelling in the Storm Water Management Model. <i>Journal of Hydrology</i> , 2021 , 600, 126525	6		5
609	Gaussian Process Model-Based Performance Uncertainty Quantification of a Typical Turboshaft Engine. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8333	2.6		0
608	Surrogate Modeling of Thermodynamic Equilibria: Applications, Sampling and Optimization.			
607	Accelerating uncertainty quantification of groundwater flow modelling using a deep neural network proxy. 2021 , 383, 113895			3
606	Chemulator: Fast, accurate thermochemistry for dynamical models through emulation. 2021 , 653, A76			3
605	New Importance Measures Based on Failure Probability in Global Sensitivity Analysis of Reliability. 2021 , 9, 2425			7
604	Multi-fidelity approach for global trajectory optimization using GPU-based highly parallel architecture. 2021 , 116, 106829			2
603	Machine Learning Based Sensitivity Analysis of Aeroelastic Stability Parameters in a Compressor Cascade. 2021 , 6, 39			
602	Functional-Structural Plant Modeling Highlights How Diversity in Leaf Dimensions and Tillering Capability Could Promote the Efficiency of Wheat Cultivar Mixtures. 2021 , 12, 734056			2
601	Global sensitivity analysis for stochastic simulators based on generalized lambda surrogate models. 2021 , 214, 107815			8
600	Mathematical modeling of ventilator-induced lung inflammation. <i>Journal of Theoretical Biology</i> , 2021 , 526, 110738	2.3		2
599	Optimal bidding and scheduling of AA-CAES based energy hub considering cascaded consumption of heat. 2021 , 233, 121133			7
598	An FEDMN method for the multiscale analysis of short fiber reinforced plastic components. 2021 , 384, 113952			9

597	Hovering efficiency optimization of the ducted propeller with weight penalty taken into account. 2021 , 117, 106937	25
596	A machine learning framework for accelerating the design process using CAE simulations: An application to finite element analysis in structural crashworthiness. 2021 , 385, 114008	3
595	Design optimization of a marine current turbine having winglet on blade. 2021 , 239, 109877	0
594	Evaluation of the collapse mode of isolated structures subjected to multi-directional dynamic coupling excitation based on reliability theory. 2021 , 34, 1261-1275	1
593	The extraction of the training subset for the spatial distribution modelling of the heavy metals in topsoil. 2021 , 207, 105699	2
592	Adaptive boundary sine cosine optimizer with population reduction for robustness analysis of finite time horizon systems. 2021 , 113, 107900	1
591	Modeling nitrous oxide mitigation potential of enhanced efficiency nitrogen fertilizers from agricultural systems. 2021 , 801, 149342	1
590	Model order reduction by proper orthogonal decomposition for a 500 MWe tangentially fired pulverized coal boiler. 2021 , 28, 101414	0
589	A mathematical model for Vibrio-phage interactions. 2021 , 18, 2688-2712	
588	Design and optimization of a bio-inspired hull shape for AUV by surrogate model technology. 2021 , 15, 1057-1074	5
587	Higher-order statistics of shear field via a machine learning approach. 2021 , 645, A123	1
586	Multidimensional Interpolation Methods in Simulation Planning for Modeling. 2021 , 376-388	
585	Machine learning regression approaches for predicting the ultimate buckling load of variable-stiffness composite cylinders. 2021 , 232, 921-931	15
584	Sensitivity and Uncertainty Analysis, Data Assimilation, and Predictive Best-Estimate Model Calibration. 2010 , 1913-2051	9
583	Regional Impacts of Ozone on Forest Productivity. 2000 , 425-453	2
582	Financial Applications of Monte Carlo and Quasi-Monte Carlo Methods. 1998 , 303-332	15
581	Pressure Matching for Hydrocarbon Reservoirs: A Case Study in the Use of Bayes Linear Strategies for Large Computer Experiments. 1997 , 37-93	62
580	Damage Prediction in Metal Forming Process Modeling and Optimization: Simplified Approaches. 2015 , 765-813	1

579	Surrogate-Based Circuit Design Centering. 2013 , 27-49		10
578	Optimization Under Uncertainty. 2003 , 145-208		2
577	Uncertainty Management Using Sequential Parameter Optimization. 2015 , 79-99		3
576	A Review on Global Sensitivity Analysis Methods. 2015 , 101-122		234
575	Stochastic Constraints and Variance Reduction Techniques. 2015 , 245-276		5
574	Intermittent Preventive Treatment (IPT) and the Spread of Drug Resistant Malaria. 2015 , 197-233		2
573	Designing Ships Using Constrained Multi-objective Efficient Global Optimization. <i>Lecture Notes in Computer Science</i> , 2019 , 191-203	0.9	3
572	Model Order Reduction of Coupled, Parameterized Elastic Bodies for Shape Optimization. 2020 , 151-163		1
571	A Risk-Structured Mathematical Model of Buruli Ulcer Disease in Ghana. 2019 , 109-128		4
570	Dimensionality Reduction for Clustering and Cluster Tracking of Cytometry Data. <i>Lecture Notes in Computer Science</i> , 2019 , 624-640	0.9	0
569	Development of an Evolutionary Deep Neural Net for Materials Research. 2020 , 817-828		6
568	Variance Reduction for Better Sampling in Continuous Domains. <i>Lecture Notes in Computer Science</i> , 2020 , 154-168	0.9	2
567	Exploratory Landscape Analysis is Strongly Sensitive to the Sampling Strategy. <i>Lecture Notes in Computer Science</i> , 2020 , 139-153	0.9	14
566	On Averaging the Best Samples in Evolutionary Computation. <i>Lecture Notes in Computer Science</i> , 2020 , 661-674	0.9	0
565	Sensitivity Analysis and Uncertainty Quantification of State-Based Discrete-Event Simulation Models Through a Stacked Ensemble of Metamodels. <i>Lecture Notes in Computer Science</i> , 2020 , 276-293	0.9	2
564	Adaptive Uncertainty Quantification for Computational Fluid Dynamics. 2013 , 151-191		3
563	Efficient Global Optimization of a Natural Laminar Airfoil Based on Surrogate Modeling. 2014 , 53-63		4
562	Model Calibration of a Locally Non-linear Structure Utilizing Multi Harmonic Response Data. 2014 , 97-109		2

561	Reliability of Profiled Blast Wall Structures. 2015 , 387-405		3
560	Hybrid Optimization Algorithms and Hybrid Response Surfaces. 2015 , 19-47		4
559	Design of Experiments for Screening. 2017 , 1143-1185		8
558	Dakota: Bridging Advanced Scalable Uncertainty Quantification Algorithms with Production Deployment. 2017 , 1651-1693		2
557	SIMLAB Software for Uncertainty and Sensitivity Analysis. 2017 , 1979-1999		2
556	Kriging Surrogate Model Enhanced by Coordinate Transformation of Design Space Based on Eigenvalue Decomposition. <i>Lecture Notes in Computer Science</i> , 2015 , 321-335	0.9	5
555	Blackbox Optimization in Engineering Design: Adaptive Statistical Surrogates and Direct Search Algorithms. 2015 , 359-383		1
554	Bridge Instrumentation: Needs, Options, and Consequences. 2016 , 199-210		4
553	Calibration, Validation and Uncertainty Quantification of Nominally Identical Car Subframes. 2016 , 315-326		3
552	On Sampling Methods for Costly Multi-Objective Black-Box Optimization. 2016 , 273-296		10
551	Introduction to Surrogate Modeling and Surrogate-Based Optimization. 2016 , 31-61		6
550	A Scientific Tour on Orthogonal Arrays. 2017 , 111-135		1
549	Sustainable Maintenance Strategy Under Uncertainty in the Lifetime Distribution of Deteriorating Assets. 2017 , 29-50		11
548	Latin Hypercube Sampling and Fibonacci Based Lattice Method Comparison for Computation of Multidimensional Integrals. <i>Lecture Notes in Computer Science</i> , 2017 , 302-310	0.9	2
547	Automatic Emulation by Adaptive Relevance Vector Machines. <i>Lecture Notes in Computer Science</i> , 2017 , 443-454	0.9	3
546	Adaptation of Deep Convolutional Neural Networks for Cancer Grading from Histopathological Images. <i>Lecture Notes in Computer Science</i> , 2017 , 38-49	0.9	7
545	An Active Learning Approach to the Falsification of Black Box Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , 2017 , 3-17	0.9	14
544	Verifying and Validating Simulations. 2017 , 173-204		12

543	Progresses in Fluid-Structure Interaction and Structural Optimization Numerical Tools Within the EU CS RIBES Project. 2019 , 529-544		2
542	Negative Space-Based Population Initialization Algorithm (NSPIA). <i>Lecture Notes in Computer Science</i> , 2018 , 449-461	0.9	8
541	Kriging-Based Surrogate Modeling for Rotordynamics Prediction in Rotor-Bearing System. 2019 , 306-321		1
540	Automatic Calibration Approach for Multiple Rain Events in SWMM Using Latin Hypercube Sampling. 2019 , 435-440		2
539	Neural Network Based Damage Detection of Dynamically Loaded Structures. 2009 , 17-27		7
538	Minimization of intra-operative shaping of orthopaedic fixation plates: a population-based design. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 409-16	0.9	6
537	A Classifier-Assisted Framework for Expensive Optimization Problems: A Knowledge-Mining Approach. <i>Lecture Notes in Computer Science</i> , 2011 , 161-175	0.9	1
536	Switching Dispatching Rules with Gaussian Processes. 2013 , 91-103		2
535	Uncertainty and Sensitivity Analysis: From Regulatory Requirements to Conceptual Structure and Computational Implementation. 2012 , 60-77		13
534	ODE Analysis of Biological Systems. <i>Lecture Notes in Computer Science</i> , 2013 , 29-62	0.9	8
533	Extended Latin Hypercube Sampling for Integration and Simulation. 2013 , 317-330		3
532	Monte Carlo, Quasi-Monte Carlo, and Randomized Quasi-Monte Carlo. 2000 , 86-97		17
531	Uncertainty Quantification for Decision-Making in Engineered Systems. 2013 , 97-117		4
530	Conditioned Latin Hypercube Sampling for Calibrating Soil Sensor Data to Soil Properties. 2010 , 111-119		8
529	Sustainability Under Severe Uncertainty: A Probability-Bounds-Analysis-Based Approach. 2013 , 51-66		1
528	Metamaterial Design by Mesh Adaptive Direct Search. 2013 , 71-96		1
527	Delineation of Hazardous Areas and Additional Sampling Strategy in Presence of a Location-Specific Threshold. 2001 , 125-136		2
526	Monte Carlo Estimation of Uncertainty Contributions from Several Independent Multivariate Sources. 1994 , 334-343		37

525	Towards a Metrics for Simulation Model Validation. 1994 , 398-410	1
524	Battery modelling. 2002 , 55-167	11
523	Linking Safety Factor and Probability of Failure Based on Monte Carlo Simulation in Fire Safety Design. 2017 , 351-359	1
522	A Novel Flexible Experiment Design Method. 2016 , 28-39	1
521	Global optimization based on active preference learning with radial basis functions. 2021 , 110, 417-448	7
520	Data-Driven Spatial Branch-And-Bound Algorithms For Black-Box Optimization. 2019 , 47, 71-76	1
519	A Simulation Comparison and Evaluation of Parameter Sensitivity Methods Applicable to Large Models . 1983 , 5, 129-140	4
518	Premod and Modaid: Software Tools for Writing Simulation Models . 1983 , 5, 173-183	3
517	Threshold dynamics of an HIV-1 virus model with both virus-to-cell and cell-to-cell transmissions, intracellular delay, and humoral immunity. 2017 , 315, 516-530	38
516	Modelling of a pressure swing adsorption unit by deep learning and artificial Intelligence tools. 2020 , 224, 115801	16
515	A confidence-based reliability optimization with single loop strategy and second-order reliability method. 2020 , 372, 113436	11
514	Surrogate-based optimization for mixed-integer nonlinear problems. 2020 , 140, 106847	16
513	Design of control framework based on deep reinforcement learning and Monte-Carlo sampling in downstream separation. 2020 , 140, 106910	7
512	Operational conditions optimization of a proposed solar-powered adsorption cooling system: Experimental, modeling, and optimization algorithm techniques. 2020 , 206, 118007	14
511	Numerical and polynomial modelling to assess environmental and hydraulic impacts of the future geological radwaste repository in Meuse site (France). 2017 , 97, 157-170	5
510	Machine learning-informed ensemble framework for evaluating shale gas production potential: Case study in the Marcellus Shale. 2020 , 84, 103679	10
509	Impact of uranium oxide (UO ₂) fuel with molybdenum (Mo) inserts on pressurized water reactor performance and safety. 2020 , 542, 152492	3
508	FEM Modelling of Lateral-Torsional Buckling Using Shell and Solid Elements. 2017 , 190, 464-471	6

507	Robust optimization of an organic Rankine cycle for geothermal application. 2020 , 161, 1120-1129	6
506	Multidimensional Global Optimization and Robustness Analysis in the Context of Protein-Ligand Binding. 2020 , 16, 4669-4684	5
505	CoRoT 223992193: Investigating the variability in a low-mass, pre-main sequence eclipsing binary with evidence of a circumbinary disk. 2017 , 599, A27	8
504	KiDS+GAMA: The weak lensing calibrated stellar-to-halo mass relation of central and satellite galaxies. 2020 , 642, A83	4
503	Le partage de la ressource en eau sur la Durance en 2050 : vers une évolution du mode de gestion des grands ouvrages duranciens ?. 2016 , 102, 25-31	7
502	Palaeochannels in Northern New South Wales: Inversion of electromagnetic induction data to infer hydrologically relevant stratigraphy. 2006 , 44, 35	18
501	Wind Turbines: Uncertainty Analysis Approaches. 2014 , 2251-2262	1
500	Role of combined cell membrane and wall mechanical properties regulated by polarity signals in cell budding. 2020 , 17, 065011	1
499	Increasing wind farm efficiency by yaw control: beyond ideal studies towards a realistic assessment. 2020 , 1618, 022029	2
498	Online accelerator optimization with a machine learning-based stochastic algorithm. 2021 , 2, 015014	4
497	Cosmological parameter estimation via iterative emulation of likelihoods. 2020 , 499, 5257-5268	11
496	Variability in electrophysiological properties and conducting obstacles controls re-entry risk in heterogeneous ischaemic tissue. 2020 , 378, 20190341	6
495	Distinguishing Viruses Responsible for Influenza-Like Illness.	14
494	Mathematical modeling of ventilator-induced lung inflammation. 2020 ,	1
493	Transport effect of COVID-19 pandemic in France.	2
492	Evaluating the Sensitivity of SARS-CoV-2 Infection Rates on College Campuses to Wastewater Surveillance.	1
491	A Metamodeling Approach for Instant Severity Assessment and Uncertainty Quantification of Iliac Artery Stenoses. 2020 , 142,	1
490	Multifidelity and Multiscale Bayesian Framework for High-Dimensional Engineering Design and Calibration. 2019 , 141,	13

489	Verification of Stress-Intensity Factor Solutions by Uncertainty Quantification. 2019 , 4,	3
488	An Efficient Kriging-Based Constrained Optimization Algorithm by Global and Local Sampling in Feasible Region. 2020 , 142,	8
487	Reliability-Based Design Optimization of Complex Problems With Multiple Design Points via Narrowed Search Region. 2020 , 142,	11
486	Analysis and Optimization of Staggered Partial Diffuser Vanes in a Centrifugal Pump. 2020 , 142,	3
485	Uncertainty Analysis of the Chemical Reactor Network Approach for Predicting the Pollutant Emissions in a Double-Swirl Combustor. 2020 , 142,	1
484	Parametric Study and Uncertainty Quantification of the Nonlinear Modal Properties of Frictional Dampers. 2020 , 142,	17
483	Uncertainty Quantification of SpalartAllmaras Turbulence Model Coefficients for Simplified Compressor Flow Features. 2020 , 142,	5
482	An Efficient Batch K-Fold Cross-Validation Voronoi Adaptive Sampling Technique for Global Surrogate Modeling. 2021 , 143,	6
481	Design Optimization of the Impeller and Volute of a Centrifugal Pump to Improve the Hydraulic Performance and Flow Stability. 2020 , 142,	7
480	Scalable Set-Based Design Optimization and Remanufacturing for Meeting Changing Requirements. 2021 , 143,	5
479	Expected improvement versus predicted value in surrogate-based optimization. 2020 ,	10
478	Initial design strategies and their effects on sequential model-based optimization. 2020 ,	6
477	Parallel Genetic Algorithms. 2020 , 53, 1-39	28
476	Machine learning applied to simulations of collisions between rotating, differentiated planets. 2020 , 7, 2	5
475	Correlation in probabilistic simulation. 2011 , 2931-2939	1
474	Sample size extension in stratified sampling. 2014 , 2907-2914	1
473	Uncertainty and Sensitivity Analysis for Gas and Brine Migration at the Waste Isolation Pilot Plant: Fully Consolidated Shaft. 1996 , 122, 1-31	6
472	ASPASIA: A toolkit for evaluating the effects of biological interventions on SBML model behaviour. 2017 , 13, e1005351	2

471	Comparing efficacies of moxifloxacin, levofloxacin and gatifloxacin in tuberculosis granulomas using a multi-scale systems pharmacology approach. 2017 , 13, e1005650	37
470	Classifying dynamic transitions in high dimensional neural mass models: A random forest approach. 2018 , 14, e1006009	3
469	A model-based evaluation of the efficacy of COVID-19 social distancing, testing and hospital triage policies. 2020 , 16, e1008388	16
468	Systems biology predicts that fibrosis in tuberculous granulomas may arise through macrophage-to-myofibroblast transformation. 2020 , 16, e1008520	5
467	Potential impact of antiretroviral chemoprophylaxis on HIV-1 transmission in resource-limited settings. 2007 , 2, e875	128
466	Model-based evaluation of highly and low pathogenic avian influenza dynamics in wild birds. 2010 , 5, e10997	21
465	Transmission and control of African horse sickness in The Netherlands: a model analysis. 2011 , 6, e23066	30
464	Modelling the influence of foot-and-mouth disease vaccine antigen stability and dose on the bovine immune response. 2012 , 7, e30435	3
463	Experimental design for parameter estimation of gene regulatory networks. 2012 , 7, e40052	47
462	HPTN 071 (PopART): a cluster-randomized trial of the population impact of an HIV combination prevention intervention including universal testing and treatment: mathematical model. 2014 , 9, e84511	80
461	Transmission of chronic wasting disease in Wisconsin white-tailed deer: implications for disease spread and management. 2014 , 9, e91043	40
460	Synergistic and antagonistic drug combinations depend on network topology. 2014 , 9, e93960	64
459	CXCR7 controls competition for recruitment of β arrestin 2 in cells expressing both CXCR4 and CXCR7. 2014 , 9, e98328	42
458	Evaluation of gridded precipitation data for driving SWAT model in area upstream of Three Gorges Reservoir. 2014 , 9, e112725	49
457	Effect of resource spatial correlation and hunter-fisher-gatherer mobility on social cooperation in Tierra del Fuego. 2015 , 10, e0121888	12
456	Modeled Changes in Potential Grassland Productivity and in Grass-Fed Ruminant Livestock Density in Europe over 1961-2010. 2015 , 10, e0127554	26
455	Bayesian Sensitivity Analysis of a Cardiac Cell Model Using a Gaussian Process Emulator. 2015 , 10, e0130252	35
454	An Atlas of Network Topologies Reveals Design Principles for <i>Caenorhabditis elegans</i> Vulval Precursor Cell Fate Patterning. 2015 , 10, e0131397	2

453	Vaccine Induced Herd Immunity for Control of Respiratory Syncytial Virus Disease in a Low-Income Country Setting. 2015 , 10, e0138018	39
452	Quantitative Modeling of the Alternative Pathway of the Complement System. 2016 , 11, e0152337	30
451	Predicting and Evaluating the Epidemic Trend of Ebola Virus Disease in the 2014-2015 Outbreak and the Effects of Intervention Measures. 2016 , 11, e0152438	10
450	MDR-TB treatment as prevention: The projected population-level impact of expanded treatment for multidrug-resistant tuberculosis. 2017 , 12, e0172748	23
449	Optimization of black-box models with uncertain climatic inputs-Application to sunflower ideotype design. 2017 , 12, e0176815	8
448	Attacking the mosquito on multiple fronts: Insights from the Vector Control Optimization Model (VCOM) for malaria elimination. 2017 , 12, e0187680	14
447	Economic analysis of the risk of replacing corn grains (<i>Zea mays</i>) with pearl millet grains (<i>Pennisetum glaucum</i>) in the diet of feedlot cattle. 2020 , 50,	2
446	Uma contribuiçã ao problema de composiçã de carteiras de m̃imo valor em risco. 2005 , 12, 295-304	1
445	Kriging Models that are Robust with Respect to Simulation Errors.	5
444	Stochastic Mortality, Macroeconomic Risks, and Life Insurer Solvency.	1
443	Uncertainty Quantification and Global Sensitivity Analysis for Economic Models.	3
442	Uncertainty Quantification and Global Sensitivity Analysis for Economic Models.	4
441	Management Strategies and Dynamic Financial Analysis.	1
440	Advancing model calibration and uncertainty analysis of SWAT models using cloud computing infrastructure: LCC-SWAT. 2021 , 23, 1-15	3
439	A surrogate-based simulatioñoptimization approach for coastal aquifer management. 2020 , 20, 3404-3418	3
438	Fast Method to Evaluate Payload Effect on In-Train Forces of Freight Trains. 2018 , 12, 77-87	6
437	Estimating Probability Distributions from Complex Models with Bifurcations: The Case of Ocean Circulation Collapse. 31, 1-21	4
436	Development of a Deep Learning Model for Dynamic Forecasting of Blood Glucose Level for Type 2 Diabetes Mellitus: Secondary Analysis of a Randomized Controlled Trial. 2019 , 7, e14452	18

435	Fangcang shelter hospitals during the COVID-19 epidemic, Wuhan, China. 2020 , 98, 830-841D	20
434	Optimal design of automobile structures using moth-flame optimization algorithm and response surface methodology. 2020 , 62, 371-377	21
433	The mine blast algorithm for the structural optimization of electrical vehicle components. 2020 , 62, 497-502	19
432	Development and Evaluation of a Procedure for the Calibration of Simulation Models.	24
431	QUANTILE-ORIENTED GLOBAL SENSITIVITY ANALYSIS OF DESIGN RESISTANCE. 2019 , 25, 297-305	17
430	Enhanced Chaotic Grey Wolf Optimizer for Real-World Optimization Problems. 2018 , 693-727	8
429	Parameter Sensitivity and Qualitative Analysis of Dynamics of Ovarian Tumor Growth Model with Treatment Strategy. 2020 , 08, 941-955	1
428	Source apportionment of carbonaceous aerosol in southern Sweden.	3
427	Emulation of a complex global aerosol model to quantify sensitivity to uncertain parameters.	2
426	Mapping the uncertainty in global CCN using emulation.	2
425	Reduced efficacy of marine cloud brightening geoengineering due to in-plume aerosol coagulation: parameterization and global implications.	1
424	The magnitude and causes of uncertainty in global model simulations of cloud condensation nuclei.	10
423	<i><i>De praeceptis ferendis</i</i>; good practice in multi-model ensembles.	3
422	Evaluation of the global oceanic isoprene source and its impacts on marine organic carbon aerosol.	4
421	Probabilistic flood inundation mapping at ungauged streams due to roughness coefficient uncertainty in hydraulic modelling. 44, 23-34	41
420	Estimates of climate system properties incorporating recent climate change. 2018 , 4, 19-36	4
419	A probabilistic assessment of calcium carbonate export and dissolution in the modern ocean. 2016 , 13, 2823-2848	18
418	A probabilistic assessment of calcium carbonate export and dissolution in the modern ocean.	1

417	Environmental drivers of drought deciduous phenology in the Community Land Model.	6
416	The Jena Diversity-Dynamic Global Vegetation Model (JeDi-DGVM): a diverse approach to representing terrestrial biogeography and biogeochemistry based on plant functional trade-offs.	22
415	Optimality-based non-Redfield plankton ecosystem model (OPEM v1.1) in UVic-ESCM 2.9 [Part 2: Sensitivity analysis and model calibration. 2020 , 13, 4691-4712	4
414	Probabilistic calibration of a Greenland Ice Sheet model using spatially-resolved synthetic observations: toward projections of ice mass loss with uncertainties.	1
413	Precipitation extremes on multiple timescales [Bartlett]Lewis rectangular pulse model and intensity-duration-frequency curves. 2017 , 21, 6501-6517	14
412	Multi-objective calibration by combination of stochastic and gradient-like parameter generation rules [the caRamel algorithm. 2020 , 24, 3189-3209	5
411	Climate-dependent propagation of precipitation uncertainty into the water cycle. 2020 , 24, 3725-3735	5
410	Coupled machine learning and the limits of acceptability approach applied in parameter identification for a distributed hydrological model. 2020 , 24, 4641-4658	7
409	Analyzing the effects of geological and parameter uncertainty on prediction of groundwater head and travel time.	2
408	The impact of forest regeneration on streamflow in 12 meso-scale humid tropical catchments.	6
407	Spatial sensitivity analysis of snow cover data in a distributed rainfall-runoff model.	2
406	Assimilation of near-surface cosmic-ray neutrons improves summertime soil moisture profile estimates at three distinct biomes in the USA.	3
405	Computationally efficient calibration of WATCLASS Hydrologic models using surrogate optimization.	5
404	A novel approach to parameter uncertainty analysis of hydrological models using neural networks.	3
403	Quantifying uncertainty in urban flooding analysis caused by the combined effect of climate and land use change scenarios.	2
402	SWAT use of gridded observations for simulating runoff [a Vietnam river basin study.	2
401	The effect of more realistic forcings and boundary conditions on the modelled geometry and sensitivity of the Greenland ice-sheet.	4
400	Polynomial chaos to efficiently compute the annual energy production in wind farm layout optimization. 2019 , 4, 211-231	10

399	Rhodium: Python Library for Many-Objective Robust Decision Making and Exploratory Modeling. 2020 , 8,	8
398	Statistical Analysis of Predicted Ground Motions on the Basis of a Recipe for Strong-motion Prediction. 2007 , 7, 43-60	6
397	A user-friendly, open-source tool to project impact and cost of diagnostic tests for tuberculosis. 2014 , 3,	11
396	A discrete-time risk-structured model of cholera infections in Cameroon. 2021 , 15, 523-562	0
395	Emulation of Stochastic Simulators Using Generalized Lambda Models. 2021 , 9, 1345-1380	4
394	ROBOTune: High-Dimensional Configuration Tuning for Cluster-Based Data Analytics. 2021 ,	0
393	On the Importance of Initial Solutions Selection in Fault Injection. 2021 ,	1
392	Successful Application of Honey-Bee Optimization Technique in Reservoir Engineering Assisted History Matching: Case Study. 2021 ,	
391	Determination of composite modulus of concrete containing reclaimed asphalt pavement using micromechanical modelling and soft computing techniques. 2021 , 327, 129486	5
390	Thymic B Cells as a New Player in the Type 1 Diabetes Response. 2021 , 12, 772017	1
389	DPNNet-2.0. I. Finding Hidden Planets from Simulated Images of Protoplanetary Disk Gaps. 2021 , 920, 3	1
388	An adaptive surrogate model to structural reliability analysis using deep neural network. 2021 , 116104	6
387	Influences of climate variability on regional precipitation and temperature associations.	0
386	Sampling strategy for fuzzy numbers in the context of surrogate models. 2021 , 3, 1	1
385	Development of Production-Forecasting Model Based on the Characteristics of Production Decline Analysis Using the Reservoir and Hydraulic Fracture Parameters in Montney Shale Gas Reservoir, Canada. 2021 , 2021, 1-12	
384	Sensitivity analysis of design parameters of envelope enclosure performance in the dry-hot and dry-cold areas. 2021 ,	1
383	Surface runoff modeling using SWAT analysis in Dabus watershed, Ethiopia. 2021 , 7, 1	1
382	Data-Driven model order reduction for problems with parameter-dependent jump-discontinuities. 2021 , 387, 114168	0

- 381 Determining the effects of wind-aided midge movement on the outbreak and coexistence of multiple bluetongue virus serotypes in patchy environments. **2021**, 342, 108718 0
- 380 Adaptive radial basis function emulators for robust design. **2000**, 343-350 1
- 379 Pricing Double-Trigger Reinsurance Contracts: Financial Versus Actuarial Approach.
- 378 Uncertainties in Chemical Calculations. **2002**, 343-350
- 377 Approximating Value at Risk in Conditional Gaussian Models. **2002**, 3-33 1
- 376 On Parameter Analysis of the Differential Model of Hysteresis. **2003**, 257-268
- 375 Sample Point Uniformity Using Discrepancy Measures. **2003**, 425-434
- 374 Analysis of parametric uncertainty propagation in detailed combustion chemistry. **2003**, 1501-1505
- 373 Robust Solutions in Engineering Design: stochastic simulation versus DACE. **2004**, 75-86
- 372 Integrated Analysis of Computer and Physical Experimental Lifetime Data. **2004**, 183-194
- 371 Assessing Hypercube Sampling Techniques for Risk Assessment. **2005**,
- 370 Combine LHS with MOEA to Optimize Complex Pareto Set MOPs. *Lecture Notes in Computer Science*, **2008**, 107-116 0.9
- 369 Examination of selected improvement approaches to Monte Carlo simulation in option pricing. **2008**, 56, 772-794 2
- 368 A new dust cycle model with dynamic vegetation: LPJ-dust version 1.0.
- 367 The Dangers of Sparse Sampling for Uncertainty Propagation and Model Calibration. **2011**, 537-556
- 366 Modelling with Deterministic Computer Models. 51-67
- 365 Simulating stream flow over data sparse areas in an application of internet based data.
- 364 Combining Latin Hypercube Sampling with Other Variance Reduction Techniques.

- 363 Efficient Sampling and Handling of Variance in Tuning Data Mining Models. *Lecture Notes in Computer Science*, **2012**, 195-205 0.9
- 362 Computational Methods for Risk and Uncertainty Propagation. 271-346
- 361 Fertigungsprozessorientierte Toleranzanalyse. **2012**, 107, 432-436
- 360 Coupling Between Leaching and Mechanical Behaviour of Concrete. **2013**, 69-84
- 359 Flood Forecasting Module of the Distributed Hydrological Model EasyDHM. **2012**, 7, 534-539
- 358 Advanced Monte Carlo Simulation Techniques for System Failure Probability Estimation. **2013**, 109-156
- 357 SAVU: A Statistical Approach for Uncertain Data in Dynamics of Axially Moving Materials. **2013**, 831-839
- 356 Probabilistic Assessment of Strengths of Corrosion-Affected RC Beams. **2013**, 401-426
- 355 ChemometricsBased in part on the article Chemometricsby Clifford H. Spiegelman, which appeared in theEncyclopedia of Environmetrics..
- 354 Deterministic and Statistical Size Effect in Plain Concrete. **2013**, 297-341
- 353 Locally Non-linear Model Calibration Using Multi Harmonic Responses: Applied on Ecole de Lyon Non-linear Benchmark Structure. **2013**, 113-123 2
- 352 Encyclopedia of Systems Biology. **2013**, 1583-1585
- 351 EFFECT OF RANDOM AXIAL CURVATURE OF A THIN-WALLED BEAM ON ITS LOAD-CARRYING CAPACITY. **2013**, 13,
- 350 Visual Contrast Preserving Representation of High Dynamic Range Mathematical Functions. **2013**, 409-429
- 349 Response Surface Methodology and Reduced Order Models. 17-64
- 348 Scheme for calculation of multi-layer cloudiness and precipitation for climate models of intermediate complexity.
- 347 Infrastructure Modeling: Status and Applications. **2014**, 391-427 1
- 346 Process Variation-Aware Analog Circuit Sizing: Uncertain Optimization. **2014**, 85-105

- 345 The Application of Metamodels Based on Soft Computing to Reproduce the Behaviour of Bolted Lap Joints in Steel Structures. **2014**, 151-160
- 344 A Numerical Evaluation of an Infill Sampling Criterion in Artificial Neural Network-Based Optimization. **2014**, 6, 272-277 2
- 343 Soft Computing Metamodels for the Failure Prediction of T-stub Bolted Connections. **2014**, 41-51
- 342 Spatio-temporal variability of soil respiration in a spruce-dominated headwater catchment in western Germany.
- 341 Comparison of Sampling Methods for Dynamic Stochastic Programming.
- 340 Samurai Sudoku-Based Space-Filling Designs for Multi-Source Inference.
- 339 An ensemble approach to simulate CO₂ emissions from natural fires.
- 338 Risk Appraisal in Engineering Infrastructure Projects: Examination of Project Risks Using Probabilistic Analysis. **2014**, 687-701
- 337 Multiobjective Optimization Based on Response Surface Methodology with Consideration of Input Dependent Noise. **2014**, 50, 792-800
- 336 Methods Used in Probabilistic Risk Assessment for Uncertainty and Sensitivity Analysis. **1990**, 423-430 1
- 335 Sensitivity of Parameters and Loop Structures. **1992**, 43-86
- 334 Predicting Manufacturing Variabilities for Deep Submicron Technologies: Integration of Process, Device, and Statistical Simulations. **1993**, 229-232 1
- 333 SMOES: a simulation model for the Oosterschelde ecosystem. **1994**, 453-474
- 332 Risk-Based Environmental Remediation: Bayesian Monte Carlo Analysis and the Expected Value of Sample Information. **1995**, 16, 67-79
- 331 A Monte Carlo Procedure for the Construction of Complementary Cumulative Distribution Functions for Comparison with the EPA Release Limits for Radioactive Waste Disposal. **1995**, 16, 43-55
- 330 Parameterizing deep convection using the assumed probability density function method.
- 329 Diffuse Response Surface Model Based on Advancing Latin Hypercube Patterns for Reliability-Based Design Optimization. **2015**, 675-706
- 328 The reliability analysis of welded tanks for oil storage. **2014**, 2249-2254

- 327 Mechanistic site-based emulation of a global ocean biogeochemical model for parametric analysis and calibration.
- 326 The Initialization of Evolutionary Multi-objective Optimization Algorithms. *Lecture Notes in Computer Science*, **2015**, 495-504 0.9 0
- 325 Guideline Identification for Optimization Under Uncertainty Through the Optimization of a Boomerang Trajectory. *Lecture Notes in Computer Science*, **2015**, 187-201 0.9
- 324 Reactive Power and Voltage Control Based on Mesh Adaptive Direct Search Algorithm. **2015**, 217-231 0
- 323 Conceptual Structure of Performance Assessments for Geologic Disposal of Radioactive Waste. **2015**, 1-37
- 322 Maximin Sliced Latin Hypercube Designs with Application to Cross Validating Prediction Error. **2015**, 1-21
- 321 Flood and drought hydrologic monitoring: the role of model parameter uncertainty. 2
- 320 An automatic and effective parameter optimization method for model tuning.
- 319 Metos3D: a marine ecosystem toolkit for optimization and simulation in 3-D Simulation Package v0.2.
- 318 A flexible importance sampling method for integrating subgrid processes. 1
- 317 Reliability Analysis Of Thin-Walled Cylindrical Shells. **2015**, 15,
- 316 Projecting the release of carbon from permafrost soils using a perturbed physics ensemble.
- 315 Bionic Optimization Strategies. **2016**, 11-56
- 314 Structural Non-Linear Models and Simulation Techniques. **2016**, 540-584
- 313 Making Structural Condition Diagnostics Robust to Environmental Variability. **2016**, 117-130
- 312 Heuristic Search Algorithms for Constructing Optimal Latin Hypercube Designs. **2016**, 183-193 1
- 311 Structural Non-Linear Models and Simulation Techniques. **2016**, 369-406
- 310 Distributed Hydrological Modelling Under Hypothetical Climate Change Scenario for a Sub-basin of the Brahmaputra River. **2017**, 219-247

- 309 Job Placement Agencies in an Artificial Labor Market. **2016**, 10, 1
- 308 Design of Experiment Using Simulation of a Discrete Dynamical System. **2016**, 16, 125-134
- 307 Conceptual Structure of Performance Assessments for Geologic Disposal of Radioactive Waste. **2017**, 1503-1539
- 306 Maximin Sliced Latin Hypercube Designs with Application to Cross Validating Prediction Error. **2017**, 289-309
- 305 Energy Methods for Assessing Dynamic SSI Response in Buildings. **2017**, 237-257
- 304 Parameterization of Large Variability Using the Hyper-Dual Meta-model. **2017**, 189-208
- 303 L. **2017**, 315-353
- 302 Bayesian Cubic Spline in Computer Experiments. **2017**, 477-495
- 301 Percentile via Polynomial Chaos Expansion: Bridging Robust Optimization with Reliability. **2017**, 57-80
- 300 Hybrid Initialization in the Process of Evolutionary Learning. *Lecture Notes in Computer Science*, **2017**, 380-393 0.9 2
- 299 A Framework for Validation of Network-based Simulation Models. **2017**,
- 298 On the Spot and Map: Interactive Model-Based Policy Support Under Deep Uncertainty. **2018**, 315-342
- 297 Step 4: Estimate Uncertainty. **2018**, 179-208
- 296 Gradient-Enhanced Polynomial Chaos Methods for Circuit Simulation. **2018**, 55-68
- 295 Metaheuristic- and Statistical-Based Sampling in Optimization. **2018**, 84-104
- 294 STEP 3: Propagate. **2018**, 149-177
- 293 Robust Evolutionary Optimization Based on Coevolution. *Lecture Notes in Computer Science*, **2018**, 813-833
- 292 Resolving Undesired Bias in Optimization of Environmentally Adaptive Control Policies. **2018**, 11, 174-181 1

- 291 Robust Optimization with Gaussian Process Models. **2019**, 479-494
- 290 Analysis of the Effects of Modeling Depth and Parameter Uncertainties on the System Behavior of a Multifunctional High Lift Actuation System.
- 289 An Optimal Machine Learning Classification Model for Flash Memory Bit Error Prediction. **2019**, 89-110 1
- 288 Case Studies. **2019**, 121-159
- 287 Inverse Airfoil Design Algorithm Based on Multi-output Least-Squares Support Vector Regression Machines. **2019**, 1412-1426
- 286 Stock Market Volatility & Wealth Inequality.
- 285 Multi-Objective Optimal Control: A Direct Approach. **2019**, 257-289 1
- 284 Development of a Submarine Landslide Risk Assessment Method Using Probabilistic Approach. **2019**, 19, 6_283-6_295
- 283 Meta-model Effects on Approximate Multi-objective Design Optimization of Vehicle Suspension Components. **2019**, 18, 74-81 0
- 282 Influence of initial ocean conditions on temperature and precipitation in a coupled climate model's solution. **2019**, 5, 17-35
- 281 Development of a Deep Learning Model for Dynamic Forecasting of Blood Glucose Level for Type 2 Diabetes Mellitus: Secondary Analysis of a Randomized Controlled Trial (Preprint). 1
- 280 Regresyon ve Kriging Meta-Modelleri iñ Kullan–lan Deney Tasar–m– Yñt€mleri. **2019**, 7, 1444-1455
- 279 Robustness of 3D Base-Isolated R.C. Systems with FPS. **2020**, 16-27
- 278 Global sensitivity analysis of failure probability caused by fatigue crack propagation.
- 277 Stochastic modelling of fatigue crack growth.
- 276 Model-Based Design and Multi-objective Robust Optimization of Electric Vehicle for Performance, Range and Top Speed Objectives. **2020**, 173-187 0
- 275 Sudoku Latin Square Sampling for Markov Chain Simulation. **2020**, 207-230 1
- 274 Modified Grid Searches for Hyper-Parameter Optimization. *Lecture Notes in Computer Science*, **2020**, 221-232 0.9

273	Understanding hormonal crosstalk in Arabidopsis root development via emulation and history matching. 2020 , 19,		0
272	A Study on Injection Mold Design Using Approximation Optimization. 2020 , 19, 55-60		1
271	Efficient structural reliability analysis by using a PGD model in an adaptive importance sampling schema. 2020 , 7,		1
270	Multiobjective tree-structured parzen estimator for computationally expensive optimization problems. 2020 ,		12
269	An Adaptive Searching Kriging Surrogate Model for Aerodynamic Optimization. 2020 , 1600, 012022		
268	Sensitivity Studies of an Air Pollution Model by Using Efficient Stochastic Algorithms for Multidimensional Numerical Integration. 2021 , 184-195		1
267	EFFECTS OF RECEIVER MISALIGNMENT ON THE INTERCEPT FACTOR OF PARABOLIC TROUGH COLLECTORS. 1-22		1
266	Enabling dynamic emulation of high-dimensional model outputs: Demonstration for Mexico City groundwater management. 2021 , 147, 105238		
265	Determining the Effect of Varying Magmatic Volatile Content on Lunar Magma Ascent Dynamics. 2021 , 126, e2021JE006939		1
264	New challenges for optimal design of nearly/net zero energy buildings under post-occupancy performance-based design standards and a risk-benefit based solution. 1		1
263	Emulation of Sun-Induced Fluorescence from Radiance Data Recorded by the HyPlant Airborne Imaging Spectrometer. 2021 , 13, 4368		4
262	Fragility Curves for Material Characteristics and Damage Index for Brick Masonry Exposed to Freeze-Thaw Action. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10027	2.6	0
261	Using Bayesian optimization to automate the calibration of complex hydrological models: Framework and application. 2021 , 147, 105235		1
260	A non-intrusive reduced-order modeling for uncertainty propagation of time-dependent problems using a B-splines Bézier elements-based method and proper orthogonal decomposition: Application to dam-break flows. 2021 , 102, 187-205		
259	Surrogate-Based Ensemble Grouping Strategies for Embedded Sampling-Based Uncertainty Quantification. 2020 , 41-66		
258	Ecology, Epidemiology and Global Public Health Burden of Tick-Borne Diseases. 2020 , 1-15		
257	Improved method for identifying Manning's roughness coefficients in plain looped river network area. 2021 , 15, 94-110		2
256	Design Optimization of Micromixers. 2021 , 45-61		

255	Flexural buckling of stainless steel CHS columns: Reliability analysis utilizing FEM simulations. 2022 , 188, 107002		2
254	Multi-objective optimization of variable stiffness laminated plates modeled using Bézier curves. 2022 , 279, 114814		3
253	Sliced symmetrical Latin hypercube designs. <i>Journal of Statistical Planning and Inference</i> , 2022 , 218, 59-70.8		
252	Impact of the vibration measurement points geometric coordinates uncertainties on two-dimensional k-space identification: Application to a sandwich plate with honeycomb core. 2022 , 167, 108509		0
251	Gaussian field on the symmetric group: Prediction and learning. 2020 , 14,		1
250	An Interactive Framework for Offline Data-Driven Multiobjective Optimization. <i>Lecture Notes in Computer Science</i> , 2020 , 97-109	0.9	2
249	On Taylor series expansion for statistical moments of functions of correlated random variables. 2020 ,		
248	QUANTIFICATION OF PARAMETER CONTRIBUTION IN GRANULAR FLOW SIMULATIONS USING THE DISCRETE ELEMENT METHOD. 2020 , 76, 1_369-1_377		0
247	Design of Experiments. 2020 , 1043-1094		
246	Actionable Subgroup Discovery and Urban Farm Optimization. <i>Lecture Notes in Computer Science</i> , 2020 , 339-351	0.9	1
245	Optimal Control of Saltwater Intrusion in Coastal Aquifers Using Analytical Approximation Based on Density Dependent Flow Correction. 2020 , 403-420		
244	Robust 2D-Spatial Fourier Transform Identification of Wavenumber-Space Characteristics of a Composite Plate. 2020 , 271-281		
243	Combinatorial Reliability-Based Optimization of Nonlinear Finite Element Model Using an Artificial Neural Network-Based Approximation. <i>Lecture Notes in Computer Science</i> , 2020 , 359-371	0.9	
242	Multi-Objective Optimization of Control Parameters for Hybrid and Electric Vehicles Using 1D CAE Model.		
241	Prediction of Fuel Maps in Variable Valve Timing Spark Ignited Gasoline Engines Using Kriging Metamodels.		0
240	Increasing Superstructure Optimization Capacity Through Self-Learning Surrogate Models. 3,		
239	Virtual nitrogen and phosphorus flow associated with interprovincial crop trade and its effect on grey water stress in China.		0
238	Design and Analysis of Computer Experiments. 264-279		1

- 237 Mathematical modeling of N-803 treatment in SIV-infected non-human primates.
- 236 Multiomics data collection, visualization, and utilization for guiding metabolic engineering. ○
- 235 Probabilistic Finite Element Analysis of Cooled High-Pressure Turbine Blades Part B: Probabilistic Analysis. **2020**, 142, ○
- 234 Multi-Objective Engineering Design Via Computer Model Calibration. **2021**, 143,
- 233 Probabilistic design strategy for improved Austin-Moore stem used in artificial cementless hip prosthesis considering material property uncertainty. **2020**, 20, 216-224
- 232 Consistency in Monte Carlo Uncertainty Analyses. **2020**, 57, 1
- 231 CALT: Classification with Adaptive Labeling Thresholds for Analog Circuit Sizing. **2020**, ○
- 230 Robust optimal design of FOPID controller for five bar linkage robot in a Cyber-Physical System: A new simulation-optimization approach. **2020**, 15, e0242613 1
- 229 A stepwise surrogate model for parameter calibration of the Variable Infiltration Capacity model: the case of the upper Brahmaputra, Tibet Plateau. **2021**, 23, 171-191
- 228 Including informal housing in slope stability analysis: An application to a data-scarce location in the humid tropics. **2020**, 20, 3161-3177
- 227 Optimization of Gap-to-Chord Ratio of Wells Turbine with Guide Vanes for Wave Energy Conversion. **2021**, 501-510
- 226 Modeling SWCC for Coarse-Grained and Fine-Grained Soil. **2021**, 59-88 ○
- 225 Effect of Loading Duration on Uncertainty in Creep Analysis for Clay. **2021**, 113-131
- 224 Evaluation of the effect of reservoir length on seismic behavior of concrete gravity dams using Monte Carlo method. **2020**, 5, 1-7 1
- 223 Best Practices for Surrogate Based Uncertainty Quantification in Aerodynamics and Application to Robust Shape Optimization. **2021**, 429-453
- 222 Advanced score system and automated search strategies for parameter estimation in mechanistic chromatography modeling. **2021**, 1661, 462693 2
- 221 Assessment of integrated CO₂ geologic storage and geothermal harvest in a semi-closed thin reservoir. *Sustainable Energy Technologies and Assessments*, **2022**, 49, 101773 4-7 1
- 220 Quantifying the provenance of dune sediments in the Taklimakan Desert using machine learning, multidimensional scaling and sediment source fingerprinting. **2022**, 210, 105902 4

219	Discrete conditional-expectation-based simulation optimization: Methodology and applications. 2021,	0
218	An interval quantification-based optimization approach for wind turbine airfoil under uncertainties. 2021, 244, 122623	1
217	An inverse method for mechanical characterization of heterogeneous diseased arteries using intravascular imaging. 2021, 11, 22540	2
216	Design Optimization and Comparison of Cylindrical Electromagnetic Vibration Energy Harvesters. 2021, 21,	1
215	State-level material flow analysis suggests the need to reconsider current monitoring practice and mitigation policies for poly- and perfluoroalkyl substances in carpet.	2
214	Toward an Agent-Based Blackboard System for Reactor Design Optimization. 1-21	0
213	Considering uncertainties expands the lower tail of maize yield projections. 2021, 16, e0259180	
212	Exploiting active subspaces of hyperparameters for efficient high-dimensional Kriging modeling. 2021, 108643	0
211	Data-driven spatial branch-and-bound algorithms for box-constrained simulation-based optimization. 1	0
210	Spatiotemporal Dynamics of Nitrous Oxide Emission Hotspots in Heterogeneous Riparian Sediments. <i>Water Resources Research</i> , 2021, 57, e2021WR030496	5.4 0
209	Probing ultra-light axion dark matter from 21 cm tomography using Convolutional Neural Networks. 2022, 2022, 020	0
208	Uncertainty consideration in CFD-models via response surface modeling: Application on realistic dense and light gas dispersion simulations. 2022, 75, 104710	
207	Uncertainty analysis and calibration of SST turbulence model for free shear layer in cavity-ramp flow. 2022, 192, 168-181	1
206	Sensitivity analysis of capital and energy production cost for off-grid building integrated photovoltaic systems. 2022, 186, 195-206	1
205	Analysis Methods for Probabilistic Life Assessment. 2021, 77-97	
204	Kesirli Biversal kriging meta-modeli.	
203	OUP accepted manuscript.	0
202	Wind turbine noise uncertainty quantification for downwind conditions using metamodeling.. 2022, 151, 390	1

201	Star discrepancy subset selection: Problem formulation and efficient approaches for low dimensions. 2022 , 101645		
200	Practical metamodel-assisted multi-objective design optimization for improved sustainability and buildability of wind turbine foundations. 2022 , 65, 1		1
199	Uncertainty Analysis Based on Kriging Meta-Model for Acoustic-Structural Problems. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1503	2.6	2
198	Uncertainty Analysis of Parameters in SST Turbulence Model for Shock Wave-Boundary Layer Interaction. 2022 , 9, 55		2
197	Optimally Weighted Ensembles for Efficient Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , 2022 , 144-156	0.9	0
196	Estimation of H II Bubble Size Distribution from 21 cm Power Spectrum with Artificial Neural Networks.		0
195	Step-by-Step Penalized Blind Kriging Methods for Surrogate Modeling. 2022 , 2022, 1-8		0
194	A Preliminary Study on the Resolution of Electro-Thermal Multi-Physics Coupling Problem Using Physics-Informed Neural Network (PINN). <i>Algorithms</i> , 2022 , 15, 53	1.8	0
193	Coloured fuzzy Petri nets for modelling and analysing membrane systems.. 2022 , 212, 104592		0
192	Digital soil survey and mapping underpinning inherent and dynamic soil attribute condition assessments. 2022 , 6, 100048		
191	Aleatory uncertainties with global resistance safety factors for non-linear analyses of slender reinforced concrete columns. 2022 , 255, 113920		5
190	Improved Hadoop-based cloud for complex model simulation optimization: Calibration of SWAT as an example. 2022 , 149, 105330		1
189	Artificial neural network prediction models for Montney shale gas production profile based on reservoir and fracture network parameters. 2022 , 244, 123150		2
188	Comparison between conventional and deep learning-based surrogate models in predicting convective heat transfer performance of U-bend channels. 2022 , 8, 100140		0
187	Robust optimization of nonlinear energy sinks used for mitigation of friction-induced limit cycle oscillations. 2022 , 93, 104529		0
186	Reply to STOTEN 802 (2022) 149713: The fallacy in the use of the "best-fit" solution in hydrologic modeling.. 2022 , 821, 153402		
185	Uncertainty and sensitivity analysis of the QUENCH-08 experiment using the FSTC tool. 2022 , 169, 108968		0
184	Vibration Response and Evaluation Method of High-Speed Tracked Vehicles Driving Off-Road. 2022 , 2022, 1-18		1

183	Data assimilation of volcanic aerosol observations using FALL3D+PDAF. 2022 , 22, 1773-1792		3
182	Scaling deep learning for whole-core reactor simulation. 2022 , 146, 104134		2
181	Appraisal of Steady-State Stormwater Control Measure Pollutant Removal Models within a Dynamic Stormwater Routing Framework. 2022 , 148,		
180	Explorative gradient method for active drag reduction of the fluidic pinball and slanted Ahmed body. 2022 , 932,		3
179	Sensitivity Study of Large-Scale Air Pollution Model Based on Modifications of the Latin Hypercube Sampling Method. <i>Lecture Notes in Computer Science</i> , 2022 , 156-163	0.9	0
178	Design and Analysis of Complex Computer Models. 2022 , 15-29		
177	A Rapid Multi-Objective Intelligent Decision Method for Shale Gas Fracturing Parameters Based on Machine Learning: A Case Study in the Changing Reservoir. 2022 ,		
176	Multiple Earthquake Effects on Vulnerability of Horizontally Curved RC Bridges. 1-26		0
175	Weight Loss Function for the Cooperative Inversion of Atmospheric Duct Parameters. 2022 , 13, 338		1
174	Simulation-based Inference of Reionization Parameters from 3D Tomographic 21 cm Light-cone Images. 2022 , 926, 151		3
173	Using Machine Learning Methods for Predicting Cage Performance Criteria in an Angular Contact Ball Bearing. 2022 , 10, 25		0
172	Metamodeling techniques for CPU-intensive simulation-based design optimization: a survey. 2022 , 9,		1
171	A bagging-based surrogate-assisted evolutionary algorithm for expensive multi-objective optimization. 1		0
170	Robust Optimization of Composite Cylindrical Shell by A Trigonometric Mixed Response Surface Method.		0
169	Emulation of high-resolution land surface models using sparse Gaussian processes with application to JULES. 2022 , 15, 1913-1929		
168	Three-Dimensional Permeability Inversion Using Convolutional Neural Networks and Positron Emission Tomography. <i>Water Resources Research</i> , 2022 , 58,	5.4	0
167	Exploring fishing tourism sustainability in North-Eastern Mediterranean waters, through a stochastic modelling analysis: An opportunity for the few or a viable option for coastal communities ?. 2022 , 221, 106118		
166	A framework to optimize spring-driven autoinjectors.. 2022 , 121588		0

165	Optimisation of wave-piercing trimaran outrigger layout with comprehensive consideration of resistance and seakeeping. 2022 , 250, 111050	2
164	Disciplinary Proper Orthogonal Decomposition and Interpolation for the resolution of parametrized Multidisciplinary Analysis.	0
163	Representing Socio-Economic Uncertainty in Human System Models. 2022 , 10,	4
162	Experimental methodology for the accurate stochastic calibration of catalytic recombination affecting reusable spacecraft TPS. 2022 , 111528	0
161	A novel nested loop optimization problem based on deep neural networks and feasible operation regions definition for simultaneous material screening and process optimization. 2022 , 180, 243-253	0
160	Entropy-based adaptive design for contour finding and estimating reliability. 1-18	0
159	Accelerated statistical failure analysis of multifidelity TRISO fuel models. 2022 , 563, 153604	0
158	Full-field temperature recovery during water quenching processes via physics-informed machine learning. 2022 , 303, 117534	1
157	Is information and communications technology effective for industrial energy conservation and emission reduction? Evidence from three energy-intensive industries in China. 2022 , 160, 112344	1
156	Hydrodynamic design of a circulating water channel based on a fractional-step multi-objective optimization. 2022 , 251, 110959	0
155	Optimal information perturbation for traffic congestion mitigation: Gaussian process regression and optimization. 2022 , 138, 103647	0
154	Optimal design of the disc vents for high-speed railway vehicles using thermal-structural coupled analysis with genetic algorithm. 095440622110591	1
153	ChAP 1.0: a stationary tropospheric sulfur cycle for Earth system models of intermediate complexity. 2021 , 14, 7725-7747	0
152	Deep Learning Assisted Automatic Methodology for Implanted MIMO Antenna Designs on Large Ground Plane. 2022 , 11, 47	2
151	Thermally Constrained Conceptual Deep Geological Repository Design under Spacing and Placing Uncertainties. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11874	2.6
150	The Effect of Relative Permeability Hysteresis on the Design of an Optimal Water-Alternating-Gas (WAG) Process. 2022 , 25, 125-145	0
149	Physiological costs of undocumented human migration across the southern United States border.. 2021 , 374, 1496-1500	1
148	Ensembles of probabilistic LSTM predictors and correctors for bearing prognostics using industrial standards. 2021 ,	3

147	Optimal reliable design of brake disk using a Kriging surrogate model. 1-10		2
146	Construction of uniform designs over continuous domain in computer experiments. 1-17		0
145	Rapid tsunami force prediction by mode-decomposition-based surrogate modeling. 2022 , 22, 1267-1285		0
144	Protected areas have a mixed impact on waterbirds, but management helps.. 2022 ,		4
143	Estimating soil moisture conditions for drought monitoring with random forests and a simple soil moisture accounting scheme. 2022 , 22, 1325-1334		2
142	CFD-based shape optimization under uncertainties using the Adjoint-assisted Polynomial Chaos Expansion and projected derivatives. 2022 , 105458		
141	Surrogate modeling of parametrized finite element simulations with varying mesh topology using recurrent neural networks. 2022 , 14, 100137		0
140	The Influence of Track Irregularity in Front of the Turnout on the Dynamic Performance of Vehicles. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4169	2.6	2
139	Comprehensive evaluation of parameter importance and optimization based on the integrated sensitivity analysis system: A case study of the BTOP model in the upper Min River Basin, China. <i>Journal of Hydrology</i> , 2022 , 610, 127819	6	1
138	Video_1.MP4. 2019 ,		
137	Video_10.MP4. 2019 ,		
136	Video_2.MP4. 2019 ,		
135	Video_3.MP4. 2019 ,		
134	Video_4.MP4. 2019 ,		
133	Video_5.MP4. 2019 ,		
132	Video_6.MP4. 2019 ,		
131	Video_7.MP4. 2019 ,		
130	Video_8.MP4. 2019 ,		

129 Video_9.MP4. 2019,

128 Data_Sheet_1.PDF. 2019,

127 Image1_v1.JPEG. 2020,

126 Table1_v1.DOCX. 2020,

125 Data_Sheet_1.pdf. 2020,

124 Data_Sheet_1.pdf. 2020,

123 Image_1.JPEG. 2020,

122 Image_2.JPEG. 2020,

121 Image_3.JPEG. 2020,

120 Data_Sheet_1.PDF. 2020,

119 Data_Sheet_1.PDF. 2020,

118 Data_Sheet_2.pdf. 2020,

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

116 Kriging/FORM Reliability Analysis of Rotor-Bearing Systems.

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

0

114 Mechanics Informed Neutron Noise Monitoring to Perform Remote Condition Assessment for Reactor Vessel Internals. 2022,

113 Evaluation of the relative differences in building energy simulation results. 1

0

112 Data-driven soliton solutions and model parameters of nonlinear wave models via the conservation-law constrained neural network method. 2022, 158, 112118

2

111 Interactive Exploration of High-Dimensional Phase Diagrams. 1

110 A two-stage infill strategy and surrogate-ensemble assisted expensive many-objective optimization. 1

109 Using nonregular designs to generate space-filling designs. *Journal of Statistical Planning and Inference*, **2022**, 0.8 1

108 Where to drill next? A dual-weighted approach to adaptive optimal design of groundwater surveys. **2022**, 104219 1

107 On the multi-fidelity approach in surrogate-based multidisciplinary design optimisation of high-aspect-ratio wing aircraft. 1-22

106 Inline qualification of focus variation metrology for a series production of micro gears. **2022**, 0

105 Automatic traffic scenarios generation for autonomous ships collision avoidance system testing. **2022**, 254, 111309 0

104 On distribution-based global sensitivity analysis by polynomial chaos expansion. *Computers and Structures*, **2022**, 267, 106808 4.5 2

103 Reduced-order modeling method for phase-change thermal energy storage heat exchangers. **2022**, 263, 115692 0

102 Distinguishing viruses responsible for influenza-like illness.. *Journal of Theoretical Biology*, **2022**, 545, 111145 2.3 1

101 Quantifying the uncertainty of lake-groundwater interaction using the forward uncertainty propagation framework: The case of Lake Urmia. *Journal of Hydrology*, **2022**, 610, 127878 6 0

100 A Potential Role of Acute Choroidal Expansion in Nonarteritic Anterior Ischemic Optic Neuropathy.. **2022**, 63, 23 1

99 On novel foam-filled double-hexagonal tube for multiple load cases. 1-21

98 Modeling the influence of cell-cell contact and TGF- β signaling on the epithelial mesenchymal transition in MCF7 breast carcinoma cells. *Journal of Theoretical Biology*, **2022**, 111160 2.3

97 Comparison of the performance and reliability between improved sampling strategies for polynomial chaos expansion. **2022**, 19, 7425-7480

96 A study of simulation-based surrogates in well-placement optimization for hydrocarbon production. *Journal of Petroleum Science and Engineering*, **2022**, 110639 4.4 1

95 Stagnation point heat flux characterization under numerical error and boundary conditions uncertainty. **2022**,

94 Robust Design Optimization of Mechatronics Systems: Parallel Electric Drivetrain Application. **2022**, 2, 1727-1736 0

93	Multi-objective hull form optimization of a SWATH configuration using surrogate models. 2022 , 256, 111209		1
92	Multi-Hazard Fragility Analysis of Offshore Wind Turbine Portfolios using Surrogate Models. 2022 , 165, 112552		
91	Numerical model updating of an aging steel bridge based on a multidisciplinary experimental campaign. 2022 ,		
90	Comparative Study of Constitutive Relations Implemented in RELAP5 and TRACE [Part I: Methodology & Wall Friction. 2022 ,		
89	Using Statistical Emulation and Knowledge of Grain-surface Diffusion for Bayesian Inference of Reaction Rate Parameters: An Application to a Glycine Network. 2022 , 931, 26		1
88	Combining Numerical Simulations, Artificial Intelligence and Intelligent Sampling Algorithms to Build Surrogate Models and Calculate the Probability of Failure of Urban Tunnels. <i>Sustainability</i> , 2022 , 14, 6385	3.6	1
87	Model-based life cycle control of ICVs in injectors in a benchmark analogous to a pre-salt field. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 110707	4.4	1
86	A stochastic optimization algorithm for analyzing planar central and balanced configurations in the n-body problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2022 , 134,	1.4	
85	Mathematics of a single-locus model for assessing the impacts of pyrethroid resistance and temperature on population abundance of malaria mosquitoes. <i>Infectious Disease Modelling</i> , 2022 ,	15.7	
84	Effective treatment of geometric constraints in derivative-free well placement optimization. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 215, 110635	4.4	1
83	Use closed reservoirs for CO2 storage and heat recovery: A two-stage brine-extraction and CO2-circulation strategy. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102346	4.7	
82	Large-scale local surrogate modeling of stochastic simulation experiments. <i>Computational Statistics and Data Analysis</i> , 2022 , 174, 107537	1.6	
81	Global Surrogate Modeling by Neural Network-Based Model Uncertainty. <i>Lecture Notes in Computer Science</i> , 2022 , 425-434	0.9	
80	Neural Network-Based Sequential Global Sensitivity Analysis Algorithm. <i>Lecture Notes in Computer Science</i> , 2022 , 445-454	0.9	
79	A virtual testing methodology for the identification of optimal parametric concept models in multi-bolted composite applications.. <i>Procedia CIRP</i> , 2022 , 109, 55-59	1.8	
78	Use of Data Science in Disaster Risk Evaluation Using Discrete Element Method. <i>Journal of the Society of Powder Technology, Japan</i> , 2022 , 59, 226-231	0.3	
77	Autonomous Materials Discovery and Manufacturing (AMDM): A review and perspectives. <i>IJSE Transactions</i> , 1-41	3.3	0
76	Algorithm XXXX: NOMAD version 4: Nonlinear optimization with the Mads algorithm. <i>ACM Transactions on Mathematical Software</i> ,	2.3	0

75	Intelligent sampling for surrogate modeling, hyperparameter optimization, and data analysis. <i>Machine Learning With Applications</i> , 2022 , 100373	6.5	1
74	Physics-informed neural networks for solving the Boltzmann equation of the electron velocity distribution function in weakly ionized plasmas. <i>Japanese Journal of Applied Physics</i> ,	1.4	0
73	Reliable and efficient parameter estimation using approximate continuum limit descriptions of stochastic models. <i>Journal of Theoretical Biology</i> , 2022 , 111201	2.3	0
72	Bayesian inference using synthetic likelihood: asymptotics and adjustments. <i>Journal of the American Statistical Association</i> , 1-28	2.8	0
71	Isovolumetric adaptations to space-filling design of experiments. <i>Optimization and Engineering</i> ,	2.1	
70	Contaminant source identification in groundwater by means of artificial neural network. <i>Journal of Hydrology</i> , 2022 , 611, 128003	6	
69	Identification of nonparametric thermodynamic model and optimization of ocean thermal energy conversion radial inflow turbine. <i>Applied Energy</i> , 2022 , 321, 119348	10.7	
68	Optimal management of mixed hydraulic barriers in coastal aquifers using multi-objective Bayesian optimization. <i>Journal of Hydrology</i> , 2022 , 612, 128021	6	0
67	Conjugate Bayesian updating of analytical fragility functions using dynamic analysis with application to corroded bridges. <i>Computers and Structures</i> , 2022 , 270, 106832	4.5	0
66	PERFORMANCE COMPARISON OF DIFFERENT SAMPLING METHODS FOR ARTIFICIAL NEURAL NETWORK MODELING. <i>Mhendislik Bilimleri Ve Tasarım Dergisi</i> , 2022 , 10, 412-428	0.2	
65	Calibration set optimization and library transfer for soil carbon estimation using soil spectroscopy: A review. <i>Soil Science Society of America Journal</i> ,	2.5	2
64	Application of the permutation method to the assessment of predictive ability of the models of spatial distribution of copper and iron concentrations in the topsoil. <i>Geoinformatika</i> , 2022 , 42-53		
63	Rules and optimization-based topology and parameter synthesis of multi-speed Ravigneaux automatic transmissions. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022 , 44,	2	
62	Inverse analysis of hydraulic fracturing tests based on artificial intelligence techniques. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> ,	4	0
61	MBORE. 2022 ,		0
60	Quantifying uncertainty with ensembles of surrogates for blackbox optimization. <i>Computational Optimization and Applications</i> ,	1.4	0
59	Quantifying the Impact of Lagged Hydrological Responses on the Effectiveness of Groundwater Conservation. <i>Water Resources Research</i> , 2022 , 58,	5.4	0
58	A Surrogate Model Based Multi-Objective Optimization Method for Optical Imaging System. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 6810	2.6	

57	Hierarchically constrained blackbox optimization. <i>Operations Research Letters</i> , 2022 , 50, 446-451	1	
56	Investigation of temperature correction methods for fine wire thermocouple losses in low-pressure flat premixed laminar flames. <i>Combustion and Flame</i> , 2022 , 244, 112248	5.3	2
55	A new methodology to assess the structural capacity of bridge portfolios: application in Northeastern Brazilian bridges. <i>Revista IBRACON De Estruturas E Materiais</i> , 2023 , 16,	0.5	
54	Construction of uniform projection designs via level permutation and expansion. <i>Journal of Statistical Planning and Inference</i> , 2023 , 222, 209-225	0.8	0
53	Multi-Fidelity Low-Rank Approximations for Uncertainty Quantification of a Supersonic Aircraft Design. <i>Algorithms</i> , 2022 , 15, 250	1.8	1
52	A Review of Proxy Modeling Highlighting Applications for Reservoir Engineering. <i>Energies</i> , 2022 , 15, 5247	3.1	1
51	Reliability and Sensitivity Analyses of Structures Related to Eurocodes. 2022 , 16, 98-107		0
50	Improved Optimization of the Charge Simulation Method for the Calculation of the Electric Field Around Overhead Transmission Lines Using Statistical Methods. 2022 , 12, 8910-8915		
49	Introducing SlideforMAP: a probabilistic finite slope approach for modelling shallow-landslide probability in forested situations. 2022 , 22, 2611-2635		0
48	An Iterative Neural Operator to Predict the Thermo-Fluid Information in Internal Cooling Channels. 1-26		
47	Explaining Small Molecule Binding Specificity with Volumetric Representations of Protein Binding Sites. 2022 , 17-45		0
46	Post Processing Method for Simulated Lagrangian Spray Field based on Mie Scattering Theory. 2022 ,		0
45	A comparison of Monte Carlo methods for multidimensional integrals in air pollution modeling based on Latin Hypercube Sampling Edge Algorithm. 2022 ,		0
44	Stochastic polynomial chaos expansions to emulate stochastic simulators. 2022 ,		0
43	Optimization of micro-channel heat sink with trapezoidal cavities and solid/slotted oval pins based on genetic algorithm and back propagation neural network. 2022 , 121-121		0
42	Comparison of Feature Selection Algorithms for Traffic Micro-Simulation Model Calibration. 2022 , 14, 752-761		0
41	Validation and calibration of SWAT model for Kollur River Basin, Kundapura Taluk, Udupi District, Karnataka, India.		0
40	Multi-network collaborative lift-drag ratio prediction and airfoil optimization based on residual network and generative adversarial network. 10,		0

39	Multi-level optimization of maintenance plan for corroded pipelines considering several modes of failure. 2022 , 22, 68-69	0
38	Metamodelling of a two-population spiking neural network.	0
37	Optimization of Parameters for Pedestrian Simulation Software: A Case Study of Emergency Evacuation Experiments.	0
36	Design-target-based optimization using input variable selection and penalty-Lagrange multiplier for high-dimensional design problems. 2022 , 65,	0
35	Super-Droplet Method to Simulate Lagrangian Microphysics of Nuclear Fallout in a Homogeneous Cloud. 2022 , 127,	0
34	Direct prediction of steam cracking products from naphtha bulk properties: Application of the two sub-networks ANN. 4,	0
33	Multi-objective optimization of subsea production systems using genetic algorithms. 2022 , 22, 453-454	0
32	Vecchia-approximated Deep Gaussian Processes for Computer Experiments. 1-35	1
31	Group symmetric Latin hypercube designs for symmetrical global sensitivity analysis. 2022 , 107625	0
30	Transfer learning driven design optimization for inertial confinement fusion. 2022 , 29, 102701	0
29	Comparison of Multiobjective Optimization Methods for the LCLS-II Photoinjector. 2022 , 108566	0
28	Maximum One-Factor-At-A-Time Designs for Screening in Computer Experiments. 1-18	1
27	Elite-guided multi-objective cuckoo search algorithm based on crossover operation and information enhancement.	0
26	Seismic Fragility of Double-Deck Curved Girder Bridge Based on Artificial Neural Network and Lasso-Logistic Regression. 2022 ,	0
25	Deep learning and Bayesian inference of gravitational-wave populations: Hierarchical black-hole mergers. 2022 , 106,	0
24	Bayesian averaging sensitivity analysis of reservoir heterogeneity and anisotropy of carbon dioxide assisted gravity drainage of a large clastic oil reservoir. 2023 , 337, 127200	1
23	Using the knowledge gradient acquisition function in Bayesian optimization when searching for robust solutions. 1-18	0
22	A sequential optimal Latin hypercube design method using an efficient recursive permutation evolution algorithm. 1-20	0

21	Evaluation of a new observationally based channel parameterization for the National Water Model. 2022 , 26, 6121-6136	0
20	Optimizing tuberculosis treatment efficacy: comparing the standard regimen with Moxifloxacin-containing regimens.	0
19	Global sensitivity analysis based on Gaussian-process metamodeling for complex biomechanical problems.	0
18	Prediction of heat transfer characteristics in a microchannel with vortex generators by machine learning. 2023 ,	1
17	Mathematical modeling indicates that regulatory inhibition of CD8+T cell cytotoxicity can limit efficacy of IL-15 immunotherapy in cases of high pre-treatment SIV viral load.	0
16	Design and analysis of computer experiments with both numeral and distributional inputs. 1-22	0
15	Investigation of buckling response of variable angle fiber composite plates using differential evolution.	0
14	A snow and glacier hydrological model for large catchments [case study for the Naryn River, central Asia. 2023 , 27, 453-480	0
13	Multi-Objective Aerodynamic Optimization and Design Information Extraction for Multi-Slotted Variable-Camber Morphing Wing Using Surrogate-Model. 2023 , 71, 26-32	0
12	Influence of measurement uncertainty on machine learning results demonstrated for a smart gas sensor. 2023 , 12, 45-60	0
11	Probabilistic Seismic Demand Models of Circular Tunnels Subjected to Horizontal Ground Motions Based on 2D Dynamic Analyses. 1-22	0
10	Efficient and certified solution of parametrized one-way coupled problems through DEIM-based data projection across non-conforming interfaces. 2023 , 49,	0
9	Towards Automated Design Optimization of Electromagnetic Energy Harvesting Transducers. 2022 ,	0
8	Novel Framework for Simulated Moving Bed Reactor Optimization Based on Deep Neural Network Models and Metaheuristic Optimizers: An Approach with Optimality Guarantee. 2023 , 8, 6463-6475	0
7	Thermal performance analysis and experimental verification of lithium-ion batteries for electric vehicle applications through optimized inclined mini-channels. 2023 , 335, 120743	0
6	Stochastic kinematic analysis of rock slope failure angle based on multi algorithm optimization, a case study of the proposed bridge project. 1-16	0
5	Time domain characteristics of lossy multiconductor transmission lines randomly excited by electromagnetic pulse. 2023 , 37, 672-692	0
4	DMSan: A Multi-Criteria Decision Analysis Framework and Package to Characterize Contextualized Sustainability of Sanitation and Resource Recovery Technologies.	0

- 3 Introductory Chapter: Response Surface Methodology. ○
- 2 Agent-based mathematical model of COVID-19 spread in Novosibirsk region: Identifiability, optimization and forecasting. **2023**, ○
- 1 Exploring ice sheet model sensitivity to ocean thermal forcing and basal sliding using the Community Ice Sheet Model (CISM). **2023**, 17, 1513-1543 ○