

Xiangyu Li

List of Publications by Year in Descending Order

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

157
papers

2,897
citations

29
h-index

49
g-index

223
ext. papers

3,604
ext. citations

2.8
avg. IF

5.75
L-index

#	Paper	IF	Citations
157	Reliability assessment of non-repairable multi-state phased mission systems with backup missions. <i>Reliability Engineering and System Safety</i> , 2022 , 223, 108462	6.3	0
156	A Frame-to-Frame Scan Matching Algorithm for 2D Lidar Based on Attention. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4341	2.6	1
155	Reliability Analysis of C4ISR Systems Based on Goal-Oriented Methodology. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6335	2.6	1
154	A single-loop strategy for time-variant system reliability analysis under multiple failure modes. <i>Mechanical Systems and Signal Processing</i> , 2021 , 148, 107159	7.8	12
153	Time-variant system reliability analysis method for a small failure probability problem. <i>Reliability Engineering and System Safety</i> , 2021 , 205, 107261	6.3	14
152	An efficient and robust structural reliability analysis method with mixed variables based on hybrid conjugate gradient direction. <i>International Journal for Numerical Methods in Engineering</i> , 2021 , 122, 1990-2004 ³	2.4	3
151	An algorithm of discrete-time Bayesian network for reliability analysis of multilevel system with warm spare gate. <i>Quality and Reliability Engineering International</i> , 2021 , 37, 1116-1134	2.6	1
150	Measuring Conflicts of Multisource Imprecise Information in Multistate System Reliability Assessment. <i>IEEE Transactions on Reliability</i> , 2021 , 1-18	4.6	3
149	A modified damage accumulation model for life prediction of aero-engine materials under combined high and low cycle fatigue loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021 , 44, 3121	3	2
148	Open Localization in 3D Package with TSV Daisy Chain Using Magnetic Field Imaging and High-Resolution Three-Dimensional X-ray Microscopy. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8148	2.6	
147	A Markov regenerative process model for phased mission systems under internal degradation and external shocks. <i>Reliability Engineering and System Safety</i> , 2021 , 215, 107796	6.3	3
146	Reliability Modeling and Analysis of Multi-Degradation of Momentum Wheel Based on Copula Function. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11563	2.6	
145	A case study on safety integrity level analysis for shale gas station. <i>Journal of Mechanical Science and Technology</i> , 2021 , 35, 5445-5452	1.6	
144	Study on Electrothermal Characteristics of the Reverse-Conducting IGBT (RC-IGBT) 2020 ,		2
143	Time-variant reliability analysis for industrial robot RV reducer under multiple failure modes using Kriging model. <i>Reliability Engineering and System Safety</i> , 2020 , 199, 106936	6.3	21
142	Redundancy allocation problem of phased-mission system with non-exponential components and mixed redundancy strategy. <i>Reliability Engineering and System Safety</i> , 2020 , 199, 106903	6.3	12
141	Reply to Comment on the Paper Entitled A New Cumulative Fatigue Damage Rule Based on Dynamic Residual S-N Curve and Material Memory Concept by Peng Z., Huang H., Zhou J. and Li Y. Published in <i>Metals</i> (2018; 8(6): 456). <i>Metals</i> , 2020 , 10, 8	2.3	

140	. <i>IEEE Transactions on Reliability</i> , 2020 , 69, 1097-1109	4.6	24
139	Bayesian prior information fusion for power law process via evidence theory. <i>Communications in Statistics - Theory and Methods</i> , 2020 , 1-19	0.5	1
138	Reliability assessment for systems suffering common cause failure based on Bayesian networks and proportional hazards model. <i>Quality and Reliability Engineering International</i> , 2020 , 36, 2509-2520	2.6	22
137	Reliability analysis of rolling bearings considering internal clearance. <i>Journal of Mechanical Science and Technology</i> , 2020 , 34, 3963-3971	1.6	2
136	Improved Model for Computing Time-Variant Reliability Based on Outcrossing Rate. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2020 , 6, 04020043	1.7	5
135	A framework for structural reliability analysis based on conjugate sensitivity factor and saddlepoint approximation. <i>Journal of Mechanical Science and Technology</i> , 2020 , 34, 3617-3627	1.6	2
134	A novel non-linear cumulative fatigue damage model based on the degradation of material memory. <i>International Journal of Damage Mechanics</i> , 2020 , 29, 610-625	3	10
133	Reliability growth planning based on information gap decision theory. <i>Mechanical Systems and Signal Processing</i> , 2019 , 133, 106274	7.8	4
132	A Modified Model for Nonlinear Fatigue Damage Accumulation of Turbine Disc Considering the Load Interaction Effect. <i>Metals</i> , 2019 , 9, 919	2.3	3
131	Reliability analysis of multi-state systems with common cause failures based on Bayesian network and fuzzy probability. <i>Annals of Operations Research</i> , 2019 , 1	3.2	37
130	A framework for fatigue reliability analysis of high-pressure turbine blades. <i>Annals of Operations Research</i> , 2019 , 1	3.2	1
129	A Novel Algorithm for Structural Reliability Analysis Based on Finite Step Length and Armijo Line Search. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2546	2.6	8
128	A novel single-loop procedure for time-variant reliability analysis based on Kriging model. <i>Applied Mathematical Modelling</i> , 2019 , 75, 735-748	4.5	22
127	Improved trajectory similarity-based approach for turbofan engine prognostics. <i>Journal of Mechanical Science and Technology</i> , 2019 , 33, 4877-4890	1.6	13
126	Tolerance-based reliability and optimization design of switched-mode power supply. <i>Quality and Reliability Engineering International</i> , 2019 , 35, 2774-2784	2.6	2
125	Remaining useful life prediction model of the space station. <i>Eksploracja I Niezawodnosc</i> , 2019 , 21, 501-519	3.9	2
124	Bayesian information fusion for degradation analysis of deteriorating products with individual heterogeneity. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2019 , 233, 615-622	0.8	4
123	Security of Separated Data in Cloud Systems with Competing Attack Detection and Data Theft Processes. <i>Risk Analysis</i> , 2019 , 39, 846-858	3.9	14

122	Cost effective scheduling of imperfect inspections in systems with hidden failures and rescue possibility. <i>Applied Mathematical Modelling</i> , 2019 , 68, 662-674	4.5	16
121	Reliability analysis of phased mission system with non-exponential and partially repairable components. <i>Reliability Engineering and System Safety</i> , 2018 , 175, 119-127	6.3	56
120	Reliability analysis of complex multi-state system with common cause failure based on evidential networks. <i>Reliability Engineering and System Safety</i> , 2018 , 174, 71-81	6.3	142
119	Reliability assessment of multi-state phased mission system with non-repairable multi-state components. <i>Applied Mathematical Modelling</i> , 2018 , 61, 181-199	4.5	53
118	Reliability modelling and assessment of a heterogeneously repaired system with partially relevant recurrence data. <i>Applied Mathematical Modelling</i> , 2018 , 59, 696-712	4.5	14
117	Reliability assessment of phased-mission systems under random shocks. <i>Reliability Engineering and System Safety</i> , 2018 , 180, 352-361	6.3	31
116	Dynamic reliability modeling for system analysis under complex load. <i>Reliability Engineering and System Safety</i> , 2018 , 180, 345-351	6.3	35
115	A New Cumulative Fatigue Damage Rule Based on Dynamic Residual S-N Curve and Material Memory Concept. <i>Metals</i> , 2018 , 8, 456	2.3	17
114	A Novel Energy-Critical Multiaxial Fatigue Life Prediction for Low Cycle Fatigue under Mixed-Mode Loading. <i>Metals</i> , 2018 , 8, 1066	2.3	4
113	A Novel Reliability Analysis Method for Turbine Discs with the Mixture of Fuzzy and Probability-Box Variables. <i>International Journal of Turbo and Jet Engines</i> , 2018 ,	0.8	3
112	Characterizing wafer stage transmission errors via binary decision diagram and dynamic fault tree. <i>Journal of Mechanical Science and Technology</i> , 2018 , 32, 5111-5119	1.6	3
111	Physics of failure-based reliability prediction of turbine blades using multi-source information fusion. <i>Applied Soft Computing Journal</i> , 2018 , 72, 624-635	7.5	70
110	Fatigue reliability analysis of crack growth life using maximum entropy method. <i>Advances in Mechanical Engineering</i> , 2018 , 10, 168781401877589	1.2	3
109	Bayesian degradation assessment of CNC machine tools considering unit non-homogeneity. <i>Journal of Mechanical Science and Technology</i> , 2018 , 32, 2479-2485	1.6	16
108	Bayesian Degradation Analysis With Inverse Gaussian Process Models Under Time-Varying Degradation Rates. <i>IEEE Transactions on Reliability</i> , 2017 , 66, 84-96	4.6	111
107	A Simulation Method to Estimate Two Types of Time-Varying Failure Rate of Dynamic Systems. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2016 , 138,	3	21
106	Non-probabilistic uncertain static responses of imprecisely defined structures with fuzzy parameters. <i>Journal of Intelligent and Fuzzy Systems</i> , 2016 , 30, 3177-3189	1.6	2
105	Reliability assessment of complex electromechanical systems under epistemic uncertainty. <i>Reliability Engineering and System Safety</i> , 2016 , 152, 1-15	6.3	90

104	Predictive analytics using a nonhomogeneous semi-Markov model and inspection data. <i>IIE Transactions</i> , 2015 , 47, 505-520		14
103	Reliability analysis of excavator rectifier feedback system with multi-state components based on belief universal generating function method. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2015 , 20, 344-348	0.6	3
102	Quantification Classification Algorithm of Multiple Sources of Evidence. <i>International Journal of Information Technology and Decision Making</i> , 2015 , 14, 1017-1034	2.8	6
101	A Bayesian optimal design for degradation tests based on the inverse Gaussian process. <i>Journal of Mechanical Science and Technology</i> , 2014 , 28, 3937-3946	1.6	18
100	Interaction prediction optimization in multidisciplinary design optimization problems. <i>Scientific World Journal, The</i> , 2014 , 2014, 698453	2.2	12
99	Thermal cycling life prediction of Sn-3.0Ag-0.5Cu solder joint using type-I censored data. <i>Scientific World Journal, The</i> , 2014 , 2014, 807693	2.2	16
98	A modified nonlinear damage accumulation model for fatigue life prediction considering load interaction effects. <i>Scientific World Journal, The</i> , 2014 , 2014, 164378	2.2	27
97	Mean-value first-order saddlepoint approximation based collaborative optimization for multidisciplinary problems under aleatory uncertainty. <i>Journal of Mechanical Science and Technology</i> , 2014 , 28, 3925-3935	1.6	37
96	Fault diagnosis of rotating machinery based on kernel density estimation and Kullback-Leibler divergence. <i>Journal of Mechanical Science and Technology</i> , 2014 , 28, 4441-4454	1.6	33
95	Fatigue Lifetime Assessment of Aircraft Engine Disc via Multi-source Information Fusion. <i>International Journal of Turbo and Jet Engines</i> , 2014 , 31,	0.8	6
94	Weighted Fuzzy Risk Priority Number Evaluation of Turbine and Compressor Blades Considering Failure Mode Correlations. <i>International Journal of Turbo and Jet Engines</i> , 2014 , 31,	0.8	1
93	An efficient approach to reliability-based design optimization within the enhanced sequential optimization and reliability assessment framework. <i>Journal of Mechanical Science and Technology</i> , 2013 , 27, 1781-1789	1.6	8
92	New evaluation methods for conceptual design selection using computational intelligence techniques. <i>Journal of Mechanical Science and Technology</i> , 2013 , 27, 733-746	1.6	29
91	A Joint Redundancy and Imperfect Maintenance Strategy Optimization for Multi-State Systems. <i>IEEE Transactions on Reliability</i> , 2013 , 62, 368-378	4.6	57
90	Review of remaining useful life prediction using support vector machine for engineering assets 2013 ,		4
89	Reliability prediction for evolutionary product in the conceptual design phase using neural network-based fuzzy synthetic assessment. <i>International Journal of Systems Science</i> , 2013 , 44, 545-555	2.3	20
88	Fatigue Reliability Analysis of Turbine Disk Alloy Using Saddlepoint Approximation. <i>International Journal of Turbo and Jet Engines</i> , 2013 , 30,	0.8	5
87	Notice of Retraction: A novel dynamic fault tree analysis method 2013 ,		1

86	Reliability analysis of satellite system with cold-standby components using sequential binary decision diagrams 2013 ,		1
85	Notice of Retraction: Application of beta factor method for reliability evaluation of EHSV 2013 ,		1
84	Dynamic precision reliability analysis for six degrees of freedom micro-displacement mechanism of reticle stage in lithography machine based on Monte-Carlo 2013 ,		2
83	Metamodeling uncertainty quantification in multi-level engineering system design 2013 ,		1
82	Bayesian framework for probabilistic low cycle fatigue life prediction and uncertainty modeling of aircraft turbine disk alloys. <i>Probabilistic Engineering Mechanics</i> , 2013 , 34, 114-122	2.6	85
81	Optimizing maritime travel time reliability. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2013 , 227, 167-176	0.4	1
80	Importance identification for fault trees based on possibilistic information measurements. <i>Journal of Intelligent and Fuzzy Systems</i> , 2013 , 25, 1013-1026	1.6	3
79	A Multiphase Decision Model for System Reliability Growth With Latent Failures. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2013 , 43, 958-966	7.3	14
78	Notice of Retraction: Residual lifetime prediction of a vehicle engine using fuzzy similarity analysis 2013 ,		1
77	A Bayesian Approach for System Reliability Analysis With Multilevel Pass-Fail, Lifetime and Degradation Data Sets. <i>IEEE Transactions on Reliability</i> , 2013 , 62, 689-699	4.6	50
76	A Data-Driven Approach to Selecting Imperfect Maintenance Models. <i>IEEE Transactions on Reliability</i> , 2012 , 61, 101-112	4.6	43
75	System Reliability Based Design Optimization with Monte Carlo simulation 2012 ,		1
74	Evidential Networks for Fault Tree Analysis with Imprecise Knowledge. <i>International Journal of Turbo and Jet Engines</i> , 2012 , 29,	0.8	5
73	System reliability modeling and analysis in the possibility context 2012 ,		2
72	Unified uncertainty analysis by the mean value first order saddlepoint approximation. <i>Structural and Multidisciplinary Optimization</i> , 2012 , 46, 803-812	3.6	48
71	Simulation of civil aircraft emergency evacuation account for physical attributes of passengers 2012 ,		1
70	Reliability analysis of multi-state systems with common cause failure based on Bayesian Networks 2012 ,		5
69	A New Ordering Method of Basic Events in Fault Tree Analysis. <i>Quality and Reliability Engineering International</i> , 2012 , 28, 297-305	2.6	21

68	Enhanced sequential optimization and reliability assessment for reliability-based design optimization. <i>Journal of Mechanical Science and Technology</i> , 2012 , 26, 2039-2043	1.6	26
67	Reliability-based design optimization for box-booms considering strength degradation and random total working time. <i>Journal of Mechanical Science and Technology</i> , 2012 , 26, 2045-2049	1.6	6
66	A Practical Method for Determining the Corten-Dolan Exponent and Its Application to Fatigue Life Prediction. <i>International Journal of Turbo and Jet Engines</i> , 2012 , 29,	0.8	18
65	Optimal load distribution for multi-state systems under selective maintenance strategy 2012 ,		11
64	Apply degree of match & fuzzy rule based mode for FMECA in flight control system 2012 ,		1
63	Parameters determination for adaptive bathtub-shaped curve using artificial fish swarm algorithm 2012 ,		3
62	Satellite reliability modeling with modified Weibull extension distribution 2012 ,		2
61	Analysis and study on BIT false alarm of flight control system in the sensing layer 2012 ,		2
60	Study on modeling and diagnosis of the satellite power system 2012 ,		2
59	Unified uncertainty analysis using the maximum entropy approach and simulation 2012 ,		1
58	Unified uncertainty analysis by the extension universal generating functions 2012 ,		3
57	Weibull distributed TSDS analysis of aeroengine burner inner-liner using bi-variant LFP method 2012 ,		1
56	Probabilistic Low Cycle Fatigue Life Prediction Using an Energy-Based Damage Parameter and Accounting for Model Uncertainty. <i>International Journal of Damage Mechanics</i> , 2012 , 21, 1128-1153	3	54
55	A general energy-based model for fatigue life prediction of high-temperature structural materials 2012 ,		1
54	Design FMEA for a diesel engine using two risk priority numbers 2012 ,		2
53	Reliability Analysis of Aircraft Servo-Actuation Systems Using Evidential Networks. <i>International Journal of Turbo and Jet Engines</i> , 2012 , 29,	0.8	8
52	Fatigue Life Estimation of an Aircraft Engine Under Different Load Spectrums. <i>International Journal of Turbo and Jet Engines</i> , 2012 , 29,	0.8	14
51	Flight control system reliability study based on hidden Markov Model imperfect fault coverage model-Hidden Markov Model 2011 ,		1

50	Topology optimization considering stress and reliability constraints 2011 ,		1
49	Reliability analysis of aircraft servo-actuation systems based on the evidential networks with imprecise information 2011 ,		1
48	Equipment reliability analysis based on the Mean-rank method of two-parameter Weibull distribution 2011 ,		5
47	A novel information fusion method based on Dempster-Shafer evidence theory for conflict resolution. <i>Intelligent Data Analysis</i> , 2011 , 15, 399-411	1.1	24
46	Generalized-order perturbation with explicit coefficient for damage detection of modular beam. <i>Archive of Applied Mechanics</i> , 2011 , 81, 451-472	2.2	5
45	Reliability sensitivity analysis for structural systems in interval probability form. <i>Structural and Multidisciplinary Optimization</i> , 2011 , 44, 691-705	3.6	53
44	Evaluation and decision of products conceptual design schemes based on customer requirements. <i>Journal of Mechanical Science and Technology</i> , 2011 , 25, 2413-2425	1.6	16
43	Adaptive bathtub hazard rate curve modelling via transformed radial basis functions 2011 ,		2
42	Fuzzy criticality assessment of FMECA for the SADA based on modified FWGM algorithm & centroid defuzzification 2011 ,		3
41	Development of possibility distributions for fatigue lifetime data analysis 2011 ,		1
40	An optimal sequential preventive maintenance policy under stochastic maintenance quality. <i>Structure and Infrastructure Engineering</i> , 2011 , 7, 315-322	2.9	11
39	Reliability analysis of CNC hydraulic system based on fuzzy fault tree 2011 ,		2
38	A combined Bayesian framework for satellite reliability estimation 2011 ,		1
37	Part reliability design of centrifugal nozzle under thermal stress-dependent strength using polynomial method 2011 ,		1
36	Reliability-based design of a spindle based on random and interval variables 2011 ,		1
35	Curve fitting with weight assignment under evidence theory combination rule 2011 ,		1
34	Toward a Better Understanding of Model Validation Metrics. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2011 , 133,	3	101
33	A Polynomial Algorithm for Model Updating of Engineering Truss#. <i>Mechanics Based Design of Structures and Machines</i> , 2010 , 38, 1-24	1.7	2

32	Reliability assessment for fuzzy multi-state systems. <i>International Journal of Systems Science</i> , 2010 , 41, 365-379	2.3	75
31	Optimal preventive maintenance policy under fuzzy Bayesian reliability assessment environments. <i>IIE Transactions</i> , 2010 , 42, 734-745		27
30	Optimization of multi-state elements replacement policy for multi-state systems 2010 ,		4
29	Sequential optimization and reliability assessment for multidisciplinary design optimization under aleatory and epistemic uncertainties. <i>Structural and Multidisciplinary Optimization</i> , 2010 , 40, 165-175	3.6	60
28	Multidisciplinary design optimization with discrete and continuous variables of various uncertainties. <i>Structural and Multidisciplinary Optimization</i> , 2010 , 42, 605-618	3.6	14
27	Neurocomputing method based on structural finite element analysis of discrete model. <i>Neural Computing and Applications</i> , 2010 , 19, 875-882	4.8	2
26	. <i>IEEE Transactions on Reliability</i> , 2010 , 59, 483-495	4.6	93
25	Genetic-algorithm-based optimal apportionment of reliability and redundancy under multiple objectives. <i>IIE Transactions</i> , 2009 , 41, 287-298		40
24	A Discrete Stress-Strength Interference Model With Stress Dependent Strength. <i>IEEE Transactions on Reliability</i> , 2009 , 58, 118-122	4.6	28
23	Uncertainty estimation of reliability redundancy in complex systems based on the Cross-Entropy method. <i>Journal of Mechanical Science and Technology</i> , 2009 , 23, 2612-2623	1.6	3
22	Rolling element bearing fault detection using an improved combination of Hilbert and wavelet transforms. <i>Journal of Mechanical Science and Technology</i> , 2009 , 23, 3292-3301	1.6	70
21	Reliability assessment of ring-standby structure based on monte carlo simulation 2009 ,		1
20	Life cycle cost analysis for design optimization under uncertainty 2009 ,		4
19	Reliability analysis of a repairable parallel system with repair time omission 2009 ,		2
18	Reliability Bounds for Multi-State k -out-of- n Systems. <i>IEEE Transactions on Reliability</i> , 2008 , 57, 53-58	4.6	21
17	Improved information fusion approach based on D-S evidence theory. <i>Journal of Mechanical Science and Technology</i> , 2008 , 22, 2417-2425	1.6	21
16	Topology Optimization of Piezoelectric Force Sensor 2008 ,		4
15	Multidisciplinary collaborative optimization using fuzzy satisfaction degree and fuzzy sufficiency degree model. <i>Soft Computing</i> , 2008 , 12, 995-1005	3.5	18

14	An efficient method for reliability evaluation of multistate networks given all minimal path vectors. <i>IIE Transactions</i> , 2007 , 39, 811-817		216
13	Optimal reliability, warranty and price for new products. <i>IIE Transactions</i> , 2007 , 39, 819-827		139
12	A comparison study of support vector machines and hidden Markov models in machinery condition monitoring. <i>Journal of Mechanical Science and Technology</i> , 2007 , 21, 607-615	1.6	19
11	Early Software Quality Prediction Based on a Fuzzy Neural Network Model 2007 ,		16
10	Fuzzy preference based Interactive Fuzzy Physical Programming and its application in multi-objective optimization. <i>Journal of Mechanical Science and Technology</i> , 2006 , 20, 731-737	1.6	7
9	Hierarchical Colored Petri Nets based components for workflow systems. <i>Journal of Mechanical Science and Technology</i> , 2006 , 20, 1527-1533	1.6	2
8	Concurrent Engineering based collaborative design Under network environment. <i>Journal of Mechanical Science and Technology</i> , 2006 , 20, 1534-1540	1.6	2
7	A fuzzy set based solution method for multiobjective optimal design problem of mechanical and structural systems using functional-link net. <i>Neural Computing and Applications</i> , 2006 , 15, 239-244	4.8	7
6	Concept optimization for mechanical product using Genetic Algorithm. <i>Journal of Mechanical Science and Technology</i> , 2005 , 19, 1072-1079	1.6	9
5	Multiobjective optimization of three-stage spur gear reduction units using interactive physical programming. <i>Journal of Mechanical Science and Technology</i> , 2005 , 19, 1080-1086	1.6	30
4	Petri nets based coordination component for CSCW environment. <i>Journal of Mechanical Science and Technology</i> , 2005 , 19, 1123-1130	1.6	5
3	Intelligent interactive multiobjective optimization method and its application to reliability optimization. <i>IIE Transactions</i> , 2005 , 37, 983-993		41
2	A new method of system reliability multi-objective optimization using genetic algorithms		4
1	A Practice of Imperfect Maintenance Model Selection for Diesel Engines231-245		