

# Christophe Berenguer

## List of Publications by Year in descending order

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104  
papers

4,112  
citations

109137

35  
h-index

118652

62  
g-index

111  
all docs

111  
docs citations

111  
times ranked

1808  
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous-time predictive-maintenance scheduling for a deteriorating system. IEEE Transactions on Reliability, 2002, 51, 141-150.	3.5	381
2	A condition-based maintenance policy for stochastically deteriorating systems. Reliability Engineering and System Safety, 2002, 76, 167-180.	5.1	355
3	A condition-based maintenance policy with non-periodic inspections for a two-unit series system. Reliability Engineering and System Safety, 2005, 87, 109-120.	5.1	210
4	Sequential condition-based maintenance scheduling for a deteriorating system. European Journal of Operational Research, 2003, 150, 451-461.	3.5	207
5	A periodic inspection and replacement policy for systems subject to competing failure modes due to degradation and traumatic events. Reliability Engineering and System Safety, 2011, 96, 497-508.	5.1	188
6	Modeling age-based maintenance strategies with minimal repairs for systems subject to competing failure modes due to degradation and shocks. European Journal of Operational Research, 2012, 218, 140-151.	3.5	165
7	An opportunistic condition-based maintenance policy for offshore wind turbine blades subjected to degradation and environmental shocks. Reliability Engineering and System Safety, 2015, 142, 463-471.	5.1	148
8	Condition-based dynamic maintenance operations planning & grouping. Application to commercial heavy vehicles. Reliability Engineering and System Safety, 2011, 96, 601-610.	5.1	129
9	A sequential condition-based repair/replacement policy with non-periodic inspections for a system subject to continuous wear. Applied Stochastic Models in Business and Industry, 2003, 19, 327-347.	0.9	103
10	Maintenance grouping strategy for multi-component systems with dynamic contexts. Reliability Engineering and System Safety, 2014, 132, 233-249.	5.1	101
11	Dynamic grouping maintenance with time limited opportunities. Reliability Engineering and System Safety, 2013, 120, 51-59.	5.1	99
12	Predictive maintenance policy for a gradually deteriorating system subject to stress. Reliability Engineering and System Safety, 2009, 94, 418-431.	5.1	98
13	Condition-based inspection/replacement policies for non-monotone deteriorating systems with environmental covariates. Reliability Engineering and System Safety, 2010, 95, 921-934.	5.1	89
14	Multi-Level Decision-Making for The Predictive Maintenance of $k$ -Out-of- $n$ :F Deteriorating Systems. IEEE Transactions on Reliability, 2015, 64, 94-117.	3.5	88
15	Periodic imperfect preventive maintenance with two categories of competing failure modes. Reliability Engineering and System Safety, 2006, 91, 460-468.	5.1	87
16	MAINTENANCE POLICY FOR A CONTINUOUSLY MONITORED DETERIORATING SYSTEM. Probability in the Engineering and Informational Sciences, 2003, 17, 235-250.	0.6	77
17	Condition-Based Maintenance with Imperfect Preventive Repairs for a Deteriorating Production System. Quality and Reliability Engineering International, 2012, 28, 624-633.	1.4	75
18	Maintenance grouping for multi-component systems with availability constraints and limited maintenance teams. Reliability Engineering and System Safety, 2015, 142, 56-67.	5.1	72

#	ARTICLE	IF	CITATIONS
19	Maintenance Decision-Making for Systems Operating Under Indirect Condition Monitoring: Value of Online Information and Impact of Measurement Uncertainty. IEEE Transactions on Reliability, 2012, 61, 410-425.	3.5	64
20	On the Use of Mean Residual Life as a Condition Index for Condition-Based Maintenance Decision-Making. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 877-893.	5.9	61
21	Condition-based maintenance policies for a combined wear and shock deterioration model with covariates. Computers and Industrial Engineering, 2015, 85, 268-283.	3.4	56
22	Optimal inspection and maintenance for a repairable k-out-of-n: G warm standby system. Reliability Engineering and System Safety, 2020, 193, 106669.	5.1	52
23	On the inspection policy of a two-component parallel system with failure interaction. Reliability Engineering and System Safety, 2005, 88, 99-107.	5.1	51
24	A multi-level maintenance policy for a multi-component and multifailure mode system with two independent failure modes. Reliability Engineering and System Safety, 2016, 153, 50-63.	5.1	51
25	Degradation analysis based on an extended inverse Gaussian process model with skew-normal random effects and measurement errors. Reliability Engineering and System Safety, 2019, 189, 261-270.	5.1	48
26	Reliability importance analysis of Markovian systems at steady state using perturbation analysis. Reliability Engineering and System Safety, 2008, 93, 1605-1615.	5.1	47
27	Combination of safety integrity levels (SILs): A study of IEC61508 merging rules. Journal of Loss Prevention in the Process Industries, 2008, 21, 437-449.	1.7	47
28	Optimal buffer inventory and opportunistic preventive maintenance under random production capacity availability. International Journal of Production Economics, 2008, 111, 686-696.	5.1	47
29	Joint optimization of monitoring quality and replacement decisions in condition-based maintenance. Reliability Engineering and System Safety, 2019, 189, 177-195.	5.1	46
30	A practical comparison of methods to assess sum-of-products. Reliability Engineering and System Safety, 2003, 79, 33-42.	5.1	45
31	Optimization of replacement times using imperfect monitoring information. IEEE Transactions on Reliability, 2003, 52, 523-533.	3.5	41
32	Risk Evaluation of Railway Rolling Stock Failures Using FMECA Technique: A Case Study of Passenger Door System. Urban Rail Transit, 2016, 2, 128-145.	0.9	41
33	Assessment of diagnostic and prognostic condition indices for efficient and robust maintenance decision-making of systems subject to stress corrosion cracking. Reliability Engineering and System Safety, 2017, 159, 237-254.	5.1	38
34	From differential to difference importance measures for Markov reliability models. European Journal of Operational Research, 2010, 204, 513-521.	3.5	37
35	A Parametric Predictive Maintenance Decision-Making Framework Considering Improved System Health Prognosis Precision. IEEE Transactions on Reliability, 2019, 68, 375-396.	3.5	36
36	Some Improvements of Particle Filtering Based Prognosis for PEM Fuel Cells. IFAC-PapersOnLine, 2016, 49, 162-167.	0.5	34

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37	A maintenance policy for two-unit parallel systems based on imperfect monitoring information. <i>Reliability Engineering and System Safety</i> , 2006, 91, 131-136.	5.1	33
38	Inspection and maintenance planning: an application of semi-Markov decision processes. <i>Journal of Intelligent Manufacturing</i> , 1997, 8, 467-476.	4.4	30
39	Maintenance planning and dynamic grouping for multi-component systems with positive and negative economic dependencies. <i>IMA Journal of Management Mathematics</i> , 2015, 26, 145-170.	1.1	30
40	Nonlinear step-stress accelerated degradation modelling considering three sources of variability. <i>Reliability Engineering and System Safety</i> , 2018, 172, 207-215.	5.1	30
41	Condition-based maintenance with imperfect inspections for continuous degradation processes. <i>Applied Mathematical Modelling</i> , 2020, 86, 311-334.	2.2	29
42	Conditional reliability-based importance measures. <i>Reliability Engineering and System Safety</i> , 2020, 193, 106633.	5.1	28
43	Asymptotic failure rate of a continuously monitored system. <i>Reliability Engineering and System Safety</i> , 2006, 91, 126-130.	5.1	26
44	A combined mono- and multi-turbine approach for fault indicator synthesis and wind turbine monitoring using SCADA data. <i>ISA Transactions</i> , 2019, 87, 272-281.	3.1	26
45	Failure rate evaluation with influencing factors. <i>Journal of Loss Prevention in the Process Industries</i> , 2010, 23, 187-193.	1.7	25
46	Reliability analysis for new technology-based transmitters. <i>Reliability Engineering and System Safety</i> , 2011, 96, 299-313.	5.1	25
47	Adaptive condition-based maintenance decision framework for deteriorating systems operating under variable environment and uncertain condition monitoring. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2012, 226, 602-623.	0.6	24
48	Three-phase electrical signals analysis for mechanical faults monitoring in rotating machine systems. <i>Mechanical Systems and Signal Processing</i> , 2017, 92, 278-292.	4.4	16
49	Modeling multivariate degradation processes with time-variant covariates and imperfect maintenance effects. <i>Applied Stochastic Models in Business and Industry</i> , 2021, 37, 592-611.	0.9	16
50	Virtual age models with time-dependent covariates: A framework for simulation, parametric inference and quality of estimation. <i>Reliability Engineering and System Safety</i> , 2020, 203, 107054.	5.1	16
51	Deterioration modeling and maintenance assessment using physics-informed stochastic Petri nets: Application to torrent protection structures. <i>Reliability Engineering and System Safety</i> , 2021, 210, 107524.	5.1	16
52	Dynamic reliability of digital-based transmitters. <i>Reliability Engineering and System Safety</i> , 2011, 96, 793-813.	5.1	14
53	A min cut-set-wise truncation procedure for importance measures computation in probabilistic safety assessment. <i>Reliability Engineering and System Safety</i> , 2009, 94, 1827-1837.	5.1	11
54	Modelling multicomponent systems to quantify reliability centred maintenance strategies. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2011, 225, 141-160.	0.6	11

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55	Multi-branch Hidden semi-Markov modeling for RUL prognosis. , 2015, , .		10
56	Deterioration estimation for predicting and controlling RUL of a friction drive system. ISA Transactions, 2021, 113, 97-110.	3.1	10
57	Grouping maintenance strategy with availability constraint under limited repairmen. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 486-491.	0.4	9
58	On the Use of Time-Limited Information for Maintenance Decision Support: A Predictive Approach under Maintenance Constraints. Mathematical Problems in Engineering, 2013, 2013, 1-11.	0.6	9
59	Multi-branch hidden Markov models for remaining useful life estimation of systems under multiple deterioration modes. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2016, 230, 473-484.	0.6	9
60	Joint dynamic scheduling of missions and maintenance for a commercial heavy vehicle: value of on-line information. IFAC-PapersOnLine, 2018, 51, 837-842.	0.5	9
61	Accounting for techno-economic parameters uncertainties for robust design of remote microgrid. International Journal of Electrical Power and Energy Systems, 2020, 116, 105531.	3.3	9
62	Critical comparison of power-based wind turbine fault-detection methods using a realistic framework for SCADA data simulation. Renewable and Sustainable Energy Reviews, 2021, 144, 110961.	8.2	9
63	Optimal inspection policies with predictive and preventive maintenance. Engineering Optimization, 2005, 37, 541-550.	1.5	8
64	Condition based maintenance model for a production deteriorating system. , 2010, , .		8
65	An architecture for controlling the remaining useful lifetime of a friction drive system. IFAC-PapersOnLine, 2018, 51, 861-866.	0.5	8
66	Method for computing efficient electrical indicators for offshore wind turbine monitoring. Insight: Non-Destructive Testing and Condition Monitoring, 2014, 56, 443-448.	0.3	7
67	Proton exchange membrane fuel cell remaining useful life prognostics considering degradation recovery phenomena. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2018, 232, 415-424.	0.6	6
68	Bi-criteria maintenance policies for a system subject to competing wear and <math>\hat{i}</math>-shock failures. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2015, 229, 485-500.	0.6	5
69	Health-and-usage-based maintenance policies for a partially observable deteriorating system. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2016, 230, 120-129.	0.6	5
70	Simulation of Maintained Multicomponent Systems for Dependability Assessment. Springer Series in Reliability Engineering, 2010, , 253-272.	0.3	5
71	On the hazard rate process for imperfectly monitored multi-unit systems. Reliability Engineering and System Safety, 2005, 90, 169-176.	5.1	4
72	Probability of failure of safety-critical systems subject to partial tests. , 2010, , .		4

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73	Value of condition monitoring information for maintenance decision-making. , 2010, , .		4
74	Dependability assessment of network-based safety-related system. Journal of Loss Prevention in the Process Industries, 2011, 24, 622-631.	1.7	4
75	Condition-based maintenance for a deterioration system with shock in dynamic environment. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 504-509.	0.4	3
76	Dynamic grouping maintenance for complex structure systems with non-negligible replacement time. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 79-84.	0.4	3
77	Environmental information adaptive condition-based maintenance policies. Structure and Infrastructure Engineering, 2012, 8, 373-382.	2.0	3
78	An alternative comprehensive framework using belief functions for parameter and model uncertainty analysis in nuclear probabilistic risk assessment applications. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2013, 227, 471-490.	0.6	3
79	Set-invariance analysis for deterioration prediction on a roller-on-tire actuator. , 2016, , .		3
80	Deterioration estimation for remaining useful lifetime prognosis in a friction drive system. IFAC-PapersOnLine, 2017, 50, 12785-12790.	0.5	3
81	An Inspection & Imperfect Maintenance Model for a System with Two Competing Failure Modes. , 2007, , 932-937.		3
82	Maintenance policy for a non-stationary deteriorating system. , 2008, , .		2
83	Probability of failure on demand of safety systems: impact of partial test distribution. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2012, 226, 426-436.	0.6	2
84	A predictive maintenance policy based on the blade of offshore wind turbine. , 2013, , .		2
85	Towards a reliable condition index for condition-based maintenance decision-making. , 2013, , .		2
86	Delayed maintenance modelling considering speed restriction for a railway section. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2017, 231, 411-428.	0.6	2
87	Condition monitoring of a friction drive system. , 2017, , .		2
88	Residual life-based importance measures for predictive maintenance decision-making. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 0, , 1748006X2110281.	0.6	2
89	Post-Prognostics Decision Making Strategy to Manage the Economic Lifetime of a Two-Stack PEMFC System. , 2021, , .		2
90	A Multi-Turbine Approach for Improving Performance of Wind Turbine Power-Based Fault Detection Methods. Energies, 2022, 15, 2806.	1.6	2

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91	Dependability Issues for Intelligent Transmitters and Reliability Pattern Proposal. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 298-303.	0.4	1
92	Delayed Maintenance Model For Deteriorating Track Using Colored Petri Nets. IFAC-PapersOnLine, 2015, 48, 464-469.	0.5	1
93	Using SCADA Data for Fault Detection in Wind Turbines: Local Internal Model Versus Distance to a Wind Farm Reference. Applied Condition Monitoring, 2016, , 225-236.	0.4	1
94	Etudes de sensibilit�, facteurs d'importance et d'�faillances de cause commune. Journal Europeen Des Systemes Automatisees, 2006, 40, 763-785.	0.3	1
95	MRL-based Importance Measures. , 2019, , .		1
96	Optimization of the monitoring device performance for a preventive maintenance policy. , 0, , .		0
97	ESReDA/ESRA maintenance modelling and applications project group. , 2009, , .		0
98	Special issue of selected articles from ESREL 2011. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2012, 226, 566-567.	0.6	0
99	Remaining lifetime assessment of a deteriorating system operating under permanent effect of fluctuant environment. , 2012, , .		0
100	On the cost function for periodically inspected standby safety systems. , 2004, , 1140-1145.		0
101	Effect of false alarms on the optimisation of the maintenance decisions. , 2004, , 2833-2839.		0
102	Modeling and Metrics. , 2009, , 97-170.		0
103	Method of Analysing Non-stationary Electrical Signals. Applied Condition Monitoring, 2016, , 3-14.	0.4	0
104	Virtual Age Models: Monitoring Information Level and Quality of Parametric Estimation. , 2021, , .		0