Phil Scarf

List of Publications by Year
in descending order

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Version: 2024-02-01

85 papers	2,554 citations	201674 27 h-index	214800 47 g-index
88 all docs	88 docs citations	88 times ranked	1385 citing authors

#	Article	IF	Citations
1	A review on maintenance optimization. European Journal of Operational Research, 2020, 285, 805-824.	5.7	256
2	On the application of mathematical models in maintenance. European Journal of Operational Research, 1997, 99, 493-506.	5.7	251
3	Imperfect inspection and replacement of a system with a defective state: A cost and reliability analysis. Reliability Engineering and System Safety, 2013, 120, 80-87.	8.9	93
4	Feature selection for high-dimensional machinery fault diagnosis data using multiple models and Radial Basis Function networks. Neurocomputing, 2011, 74, 2941-2952.	5.9	86
5	Block replacement policies for a two-component system with failure dependence. Naval Research Logistics, 2003, 50, 70-87.	2.2	79
6	Maintenance scheduling of a protection system subject to imperfect inspection and replacement. European Journal of Operational Research, 2012, 218, 716-725.	5.7	75
7	Extrapolation of Extreme Pit Depths in Space and Time. Journal of the Electrochemical Society, 1990, 137, 64-69.	2.9	70
8	A numerical study of designs for sporting contests. European Journal of Operational Research, 2009, 198, 190-198.	5.7	70
9	Modelling quality in replacement and inspection maintenance. International Journal of Production Economics, 2012, 135, 372-381.	8.9	66
10	Modelling and application of condition-based maintenance for a two-component system with stochastic and economic dependencies. Reliability Engineering and System Safety, 2019, 182, 86-97.	8.9	62
11	The Analysis and Utilization of Cycling Training Data. Sports Medicine, 2009, 39, 833-844.	6.5	59
12	A study of postponed replacement in a delay time model. Reliability Engineering and System Safety, 2017, 168, 70-79.	8.9	59
13	An Age-Based Inspection and Replacement Policy for Heterogeneous Components. IEEE Transactions on Reliability, 2009, 58, 641-648.	4.6	53
14	On the Development of a Soccer Player Performance Rating System for the English Premier League. Interfaces, 2012, 42, 339-351.	1.5	53
15	A general inspection and opportunistic replacement policy for one-component systems of variable quality. European Journal of Operational Research, 2018, 266, 911-919.	5.7	52
16	Hybrid block replacement and inspection policies for a multi-component system with heterogeneous component lives. European Journal of Operational Research, 2010, 206, 384-394.	5.7	48
17	Modelling soccer matches using bivariate discrete distributions with general dependence structure. Statistica Neerlandica, 2007, 61, 432-445.	1.6	42
18	Delay-time modelling of a critical system subject to random inspections. European Journal of Operational Research, 2019, 278, 772-782.	5.7	38

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19	A study of a two-phase inspection policy for a preparedness system with a defective state and heterogeneous lifetime. Reliability Engineering and System Safety, 2011, 96, 627-635.	8.9	35
20	Forecasting test cricket match outcomes in play. International Journal of Forecasting, 2012, 28, 632-643.	6.5	35
21	Extrapolation of Extreme Pit Depths in Space and Time Using the r Deepest Pit Depths. Journal of the Electrochemical Society, 1992, 139, 2621-2627.	2.9	34
22	Joint optimisation of inspection maintenance and spare parts provisioning: a comparative study of inventory policies using simulation and survey data. Reliability Engineering and System Safety, 2017, 168, 306-316.	8.9	33
23	The importance of a match in a tournament. Computers and Operations Research, 2008, 35, 2406-2418.	4.0	32
24	A numerical study of tournament structure and seeding policy for the soccer World Cup Finals. Statistica Neerlandica, 2011, 65, 43-57.	1.6	32
25	The Effect of Maintenance Quality on Spare Parts Inventory for a Fleet of Assets. IEEE Transactions on Reliability, 2013, 62, 596-607.	4.6	31
26	Route choice in mountain navigation, Naismith's rule, and the equivalence of distance and climb. Journal of Sports Sciences, 2007, 25, 719-726.	2.0	30
27	Modelling inspection and replacement quality for a protection system. Reliability Engineering and System Safety, 2018, 176, 145-153.	8.9	29
28	Imperfect Inspection of a System With Unrevealed Failure and an Unrevealed Defective State. IEEE Transactions on Reliability, 2019, 68, 764-775.	4.6	29
29	On reliability criteria and the implied cost of failure for a maintained component. Reliability Engineering and System Safety, 2005, 89, 199-207.	8.9	28
30	Modelling the dependence of goals scored by opposing teams in international soccer matches. Statistical Modelling, 2011, 11, 219-236.	1.1	28
31	A fully subjective approach to modelling inspection maintenance. European Journal of Operational Research, 2003, 148, 410-425.	5.7	27
32	On the distribution of runs scored and batting strategy in test cricket. Journal of the Royal Statistical Society Series A: Statistics in Society, 2011, 174, 471-497.	1.1	27
33	Two new stochastic models of the failure process of a series system. European Journal of Operational Research, 2017, 257, 763-772.	5.7	27
34	Some Insights Into the Effect of Maintenance Quality for a Protection System. IEEE Transactions on Reliability, 2015, 64, 661-672.	4.6	26
35	Inspection and replacement policy with a fixed periodic schedule. Reliability Engineering and System Safety, 2021, 208, 107402.	8.9	26
36	Decline and repair, and covariate effects. European Journal of Operational Research, 2015, 244, 219-226.	5.7	25

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37	Joint maintenance-inventory optimisation of parallel production systems. Journal of Manufacturing Systems, 2018, 48, 73-86.	13.9	25
38	Estimation of extremes in corrosion engineering. Journal of Applied Statistics, 1996, 23, 621-644.	1.3	24
39	Modelling imperfect inspection over a finite horizon. Reliability Engineering and System Safety, 2013, 111, 18-29.	8.9	24
40	Rating players in test match cricket. Journal of the Operational Research Society, 2015, 66, 684-695.	3.4	24
41	Conditional inspection and maintenance of a system with two interacting components. European Journal of Operational Research, 2018, 268, 533-544.	5.7	24
42	On the relationship between financial performance and position of businesses in supply chain networks. International Journal of Production Economics, 2020, 227, 107690.	8.9	24
43	Condition-based maintenance for a two-component system with dependencies. IFAC-PapersOnLine, 2015, 48, 946-951.	0.9	23
44	Exceedances, extremes, extrapolation and order statistics for pits, pitting and other localized corrosion phenomena. Corrosion Science, 1993, 35, 135-145.	6.6	22
45	A stochastic model of crack growth under periodic inspections. Reliability Engineering and System Safety, 1996, 51, 331-339.	8.9	20
46	Asset replacement for an urban railway using a modified two-cycle replacement model. Journal of the Operational Research Society, 2007, 58, 1123-1137.	3.4	20
47	On outcome uncertainty and scoring rates in sport: The case of international rugby union. European Journal of Operational Research, 2019, 273, 721-730.	5.7	20
48	Modelling match outcomes and decision support for setting a final innings target in test cricket. IMA Journal of Management Mathematics, 2005, 16, 161-178.	1.6	19
49	On the Application of an Economic Life Model with a Fixed Planning Horizon. International Transactions in Operational Research, 1997, 4, 139-150.	2.7	16
50	Characterization of optimal policy for capital replacement models. IMA Journal of Management Mathematics, 2002, 13, 261-271.	1.6	16
51	A fully subjective approach to capital equipment replacement. Journal of the Operational Research Society, 2003, 54, 371-378.	3.4	16
52	An analysis of strategy in the first three innings in test cricket: declaration and the follow-on. Journal of the Operational Research Society, 2011, 62, 1931-1940.	3.4	15
53	Applications of extreme-value theory in corrosion engineering. Journal of Research of the National Institute of Standards and Technology, 1994, 99, 313.	1.2	15
54	Estimation for a four parameter generalized extreme value distribution. Communications in Statistics - Theory and Methods, 1992, 21, 2185-2201.	1.0	14

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55	A framework for maintenance and replacement of a network structured system. International Journal of Production Economics, 2001, 69, 287-296.	8.9	12
56	Can models fitted to small data samples lead to maintenance policies with near-optimum cost?. IMA Journal of Management Mathematics, 1995, 6, 3-12.	1.6	10
57	Virtual series-system models of imperfect repair. Reliability Engineering and System Safety, 2019, 188, 604-613.	8.9	10
58	To lead or not to lead: analysis of the sprint in track cycling. Journal of Quantitative Analysis in Sports, 2014, 10, .	1.0	9
59	An empirical basis for route choice in cycling. Journal of Sports Sciences, 2005, 23, 919-925.	2.0	8
60	Wear rate-state interaction modelling for a multi-component system: Models and an experimental platform. IFAC-PapersOnLine, 2016, 49, 232-237.	0.9	7
61	On the application of a capital replacement model for amixed fleet. IMA Journal of Management Mathematics, 1995, 6, 39-52.	1.6	6
62	Applications of capital replacement models with finite planning horizons. International Journal of Technology Management, 1997, 13, 25.	0.5	6
63	On the Application of a Model of Condition-Based Maintenance. Journal of the Operational Research Society, 2000, 51, 1218.	3.4	6
64	Ranking football players. Significance, 2005, 2, 54-57.	0.4	6
65	On the development of decision rules for bar quiz handicapping. Journal of the Operational Research Society, 2008, 59, 1406-1414.	3.4	6
66	Wear rateâ€“state interactions within a multi-component system: a study of a gearbox-accelerated life testing platform. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2018, 232, 425-434.	0.7	6
67	Preventive replacement with defaulting. IMA Journal of Management Mathematics, 2020, 31, 491-504.	1.6	6
68	Predicting the outcomes of annual sporting contests. Journal of the Royal Statistical Society Series C: Applied Statistics, 2006, 55, 225-239.	1.0	5
69	Applications of Statistical Analysis Techniques in Corrosion Experimentation, Testing, Inspection and Monitoring. , 2010, , 1547-1580.		5
70	Optimisation of inspection policy for multi-line production systems. European Journal of Industrial Engineering, 2018, 12, 233.	0.8	5
71	Planning the restoration of membranes in RO desalination using a digital twin. Desalination, 2021, 519, 115214.	8.2	5
72	Modifying Bradleyâ€“Terry and other ranking models to allow ties. IMA Journal of Management Mathematics, 2021, 32, 451-463.	1.6	5

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73	Modelling warranty extensions: a case study in the automotive industry. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2011, 225, 251-265.	0.7	4
74	A unified theory for bivariate scores in possessive ball-sports: The case of handball. European Journal of Operational Research, 2023, 304, 1099-1112.	5.7	4
75	The binomial-match, outcome uncertainty, and the case of netball. Journal of the Operational Research Society, 0, , 1-17.	3.4	3
76	On skill and chance in sport. IMA Journal of Management Mathematics, 2022, 33, 53-73.	1.6	3
77	Generalised Estimators for Seasonal Forecasting by Combining Grouping with Shrinkage Approaches. Journal of Forecasting, 2013, 32, 137-150.	2.8	2
78	Sequential regression measurement error models with application. Statistical Modelling, 2016, 16, 454-476.	1.1	2
79	Management Mathematics: a retrospective. IMA Journal of Management Mathematics, 2020, 31, 1-3.	1.6	2
80	Mathematical Applications to Reliability and Maintenance Problems in Engineering Systems. Mathematical Problems in Engineering, 2015, 2015, 1-2.	1.1	1
81	Determining optimal cadence for an individual road cyclist from field data. European Journal of Sport Science, 2016, 16, 903-911.	2.7	1
82	A two-phase inspection policy for a single component preparedness system with a mixed time to failure distribution. , 2009, , .		1
83	A hybrid maintenance policy with fixed periodic structure and opportunistic replacement. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2023, 237, 579-591.	0.7	1
84	A Robust Replacement Model with Applications to Medical Equipment. Journal of the Operational Research Society, 1994, 45, 261.	3.4	0
85	Special issue on selected papers from the 7th IMA International Conference on Modelling in Industrial Maintenance and Reliability. Quality and Reliability Engineering International, 2012, 28, 575-576.	2.3	0