

# Nozer Darabsha Singpurwalla

## List of Publications by Year in descending order

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105  
papers

3,360  
citations

201674

27  
h-index

155660

55  
g-index

117  
all docs

117  
docs citations

117  
times ranked

1344  
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the Kalman Filter. American Statistician, 1983, 37, 123-127.	1.6	416
2	Survival in Dynamic Environments. Statistical Science, 1995, 10, 86.	2.8	404
3	Multivariate distributions for the life lengths of components of a system sharing a common environment. Journal of Applied Probability, 1986, 23, 418-431.	0.7	208
4	A Unification of Some Software Reliability Models. SIAM Journal on Scientific and Statistical Computing, 1985, 6, 781-790.	1.5	170
5	Software Reliability Modeling. International Statistical Review, 1994, 62, 289.	1.9	152
6	Membership Functions and Probability Measures of Fuzzy Sets. Journal of the American Statistical Association, 2004, 99, 867-877.	3.1	131
7	Robustification of Kalman Filter Models. Journal of the American Statistical Association, 1989, 84, 479-486.	3.1	129
8	A BAYESIAN PERSPECTIVE ON TAGUCHI'S APPROACH TO QUALITY ENGINEERING AND TOLERANCE DESIGN. IIE Transactions, 1992, 24, 18-31.	2.1	77
9	An Empirical Stopping Rule for Debugging and Testing Computer Software. Journal of the American Statistical Association, 1977, 72, 750.	3.1	71
10	Relationships Between Some Notions Which are Common to Reliability Theory and Economics. Mathematics of Operations Research, 1981, 6, 113-121.	1.3	66
11	Inference for step-stress accelerated life tests. Journal of Statistical Planning and Inference, 1983, 7, 295-306.	0.6	66
12	A subjective Bayesian approach to the theory of queues II ? Inference and information in M/M/1 queues. Queueing Systems, 1987, 1, 335-353.	0.9	59
13	A subjective Bayesian approach to the theory of queues I ? Modeling. Queueing Systems, 1987, 1, 317-333.	0.9	59
14	Foundational Issues in Reliability and Risk Analysis. SIAM Review, 1988, 30, 264-282.	9.5	59
15	Life Distributions Derived from Stochastic Hazard Functions. IEEE Transactions on Reliability, 1968, R-17, 70-79.	4.6	58
16	An Empirical Stopping Rule for Debugging and Testing Computer Software. Journal of the American Statistical Association, 1977, 72, 750-757.	3.1	58
17	Reliability (and Fault Tree) Analysis Using Expert Opinions. Journal of the American Statistical Association, 1986, 81, 87-90.	3.1	58
18	Bayesian Analysis of a Commonly Used Model for Describing Software Failures. Journal of the Royal Statistical Society: Series D (the Statistician), 1983, 32, 168.	0.2	52

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19	An Empirically Developed Fourier Series Model for Describing Software Failures. IEEE Transactions on Reliability, 1984, R-33, 176-183.	4.6	49
20	Optimal Time Intervals for Testing Hypotheses on Computer Software Errors. IEEE Transactions on Reliability, 1979, R-28, 250-253.	4.6	43
21	An Interactive PC-Based Procedure for Reliability Assessment Incorporating Expert Opinion and Survival Data. Journal of the American Statistical Association, 1988, 83, 43-51.	3.1	38
22	The Hazard Potential. Journal of the American Statistical Association, 2006, 101, 1705-1717.	3.1	37
23	On exchangeable, causal and cascading failures. Statistical Science, 2002, 17, 209.	2.8	36
24	Nonparametric Estimation and Goodness-of-Fit Testing of Hypotheses for Distributions in Accelerated Life Testing. IEEE Transactions on Reliability, 1982, R-31, 69-74.	4.6	33
25	Robustification of Kalman Filter Models. Journal of the American Statistical Association, 1989, 84, 479.	3.1	30
26	Testing of Hypotheses for Distributions in Accelerated Life Tests. Journal of the American Statistical Association, 1982, 77, 204-208.	3.1	29
27	On the Evidence Needed to Reach Agreed Action between Adversaries, with Application to Acceptance Sampling. Journal of the American Statistical Association, 1991, 86, 933-937.	3.1	29
28	A New Approach To Inference From Accelerated Life Tests. IEEE Transactions on Reliability, 1980, R-29, 98-102.	4.6	26
29	Inference and Predictions from Poisson Point Processes Incorporating Expert Knowledge. Journal of the American Statistical Association, 1995, 90, 220-226.	3.1	26
30	A Bayesian approach for quantile and response probability estimation with applications to reliability. Annals of the Institute of Statistical Mathematics, 1990, 42, 1-19.	0.8	24
31	A Problem in Accelerated Life Testing. Journal of the American Statistical Association, 1971, 66, 841-845.	3.1	22
32	Kernel Estimators of the Failure-Rate Function and Density Estimation: An Analogy. Journal of the American Statistical Association, 1983, 78, 478-481.	3.1	22
33	Choosing a Coverage Probability for Prediction Intervals. American Statistician, 2008, 62, 120-124.	1.6	20
34	Inference from Accelerated Life Tests Using Arrhenius Type Re-Parameterizations. Technometrics, 1973, 15, 289-299.	1.9	18
35	A sequential bayes procedure for reliability demonstration. Naval Research Logistics Quarterly, 1970, 17, 55-67.	0.4	16
36	Inference from accelerated life tests using eyring type re-parameterizations. Naval Research Logistics Quarterly, 1975, 22, 289-296.	0.4	16

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37	Assessing the Reliability of Computer Software and Computer Networks: An Opportunity for Partnership with Computer Scientists. American Statistician, 1985, 39, 88.	1.6	16
38	Statistical Fatigue Models: A Survey. IEEE Transactions on Reliability, 1971, R-20, 185-189.	4.6	15
39	Robustness of Sequential Exponential Life-Testing Procedures. Journal of the American Statistical Association, 1985, 80, 715-719.	3.1	14
40	A Kalman-Filter Smoothing Approach for Extrapolations in Certain Dose-Response, Damage-Assessment, and Accelerated-Life-Testing Studies. American Statistician, 1987, 41, 101-106.	1.6	14
41	The Notion of "Composite Reliability" and its Hierarchical Bayes Estimation. Journal of the American Statistical Association, 1996, 91, 1474-1484.	3.1	14
42	Large Sample Estimates and Uniform Confidence Bounds for the Failure Rate Function Based on a Naive Estimator. Annals of Statistics, 1981, 9, .	2.6	14
43	The exponentiation formula of reliability and survival: Does it always hold?. Lifetime Data Analysis, 1995, 1, 187-194.	0.9	12
44	An Adaptive Concatenated Failure Rate Model for Software Reliability. Journal of the American Statistical Association, 1998, 93, 1150-1163.	3.1	12
45	Probability, chance and the probability of chance. IIE Transactions, 2008, 41, 12-22.	2.1	12
46	From Least Squares to Signal Processing and Particle Filtering. Technometrics, 2018, 60, 146-160.	1.9	11
47	An Interactive PC-Based Procedure for Reliability Assessment Incorporating Expert Opinion and Survival Data. Journal of the American Statistical Association, 1988, 83, 43.	3.1	11
48	Assessing the Reliability of Software: An Overview. , 1996, , 345-367.		9
49	Network Reliability and Borel's Paradox. American Statistician, 2001, 55, 213-218.	1.6	9
50	On competing risk and degradation processes. , 2006, , 229-240.		9
51	Testing of Hypotheses for Distributions in Accelerated Life Tests. Journal of the American Statistical Association, 1982, 77, 204.	3.1	9
52	Reliability (and Fault Tree) Analysis Using Expert Opinions. Journal of the American Statistical Association, 1986, 81, 87.	3.1	9
53	On estimation in weibull distributions with random scale parameters. Naval Research Logistics Quarterly, 1969, 16, 405-410.	0.4	8
54	A bayesian approach to inference for monotone failure rates. Statistics and Probability Letters, 1985, 3, 135-141.	0.7	8

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55	Assessing the Reliability of Computer Software and Computer Networks: An Opportunity for Partnership with Computer Scientists. <i>American Statistician</i> , 1985, 39, 88-94.	1.6	8
56	To Survive or to Fail: That is the Question. <i>American Statistician</i> , 1994, 48, 18-21.	1.6	8
57	Ch. 30. Stochastic process models for reliability in dynamic environments. <i>Handbook of Statistics</i> , 2003, , 1109-1129.	0.6	8
58	Betting on residual life: The caveats of conditioning. <i>Statistics and Probability Letters</i> , 2007, 77, 1354-1361.	0.7	8
59	On Causality and Causal Mechanisms: Comment on Dennis Lindley's "Seeing and Doing: the Concept of Causation". <i>International Statistical Review</i> , 2002, 70, 198-206.	1.9	7
60	On the sample redundancy and a test for exponentiality. <i>Communications in Statistics - Theory and Methods</i> , 1982, 11, 429-438.	1.0	6
61	The stochastic control of process capability indices. <i>Test</i> , 1998, 7, 1-74.	1.1	6
62	Robustness of Sequential Exponential Life-Testing Procedures. <i>Journal of the American Statistical Association</i> , 1985, 80, 715.	3.1	6
63	On the Evidence Needed to Reach Agreed Action Between Adversaries, with Application to Acceptance Sampling. <i>Journal of the American Statistical Association</i> , 1991, 86, 933.	3.1	6
64	Knowledge management and information superiority (a taxonomy). <i>Journal of Statistical Planning and Inference</i> , 2003, 115, 361-364.	0.6	5
65	Many-valued Logic in Multistate and Vague Stochastic Systems. <i>International Statistical Review</i> , 2008, 76, 247-267.	1.9	5
66	5 Software reliability models. <i>Handbook of Statistics</i> , 1988, 7, 73-98.	0.6	4
67	A Unifying Perspective on Statistical Modeling. <i>SIAM Review</i> , 1989, 31, 560-564.	9.5	4
68	Decelerated Testing: A Hierarchical Bayes Approach. <i>Technometrics</i> , 2005, 47, 468-477.	1.9	4
69	The utility of reliability and survival. <i>Annals of Applied Statistics</i> , 2009, 3, .	1.1	4
70	Auditing Shaked and Shanthikumar's "excess wealth". <i>Annals of Operations Research</i> , 2014, 212, 3-19.	4.1	4
71	Adversarial Life Testing. <i>Journal of the Royal Statistical Society Series B: Methodological</i> , 1993, 55, 837-847.	0.7	4
72	A Reliability Model for Sectionalized Precipitators. <i>Journal of the Air Pollution Control Association</i> , 1981, 31, 144-147.	0.5	3

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73	Some problems in simulating the quantiles of the maxima and other functionals of gaussian processes. Journal of Statistical Computation and Simulation, 1983, 18, 45-57.	1.2	3
74	Inference from Accelerated Life Tests Using Filtering in Coloured Noise. Journal of the Royal Statistical Society Series B: Methodological, 1988, 50, 281-292.	0.7	3
75	Inference under planned maintenance, warranties, and other retrospective data. Journal of Statistical Planning and Inference, 1991, 29, 171-185.	0.6	3
76	Reliability Allocation for Networks and Systems. SIAM Review, 2006, 48, 43-65.	9.5	3
77	RELIABILITY AND SURVIVAL IN FINANCIAL RISK. , 2007, , 93-114.		3
78	Adversarial and Amiable Inference in Medical Diagnosis, Reliability and Survival Analysis. International Statistical Review, 2016, 84, 390-412.	1.9	3
79	Filtering and Tracking Survival Propensity (Reconsidering the Foundations of Reliability). Statistical Science, 2016, 31, .	2.8	3
80	A Bayesian Ponders "The Quality of Life", 2008, , 369-381.		3
81	A Bear Trap in Using the IOWA-Curve Methodology for Property Retirements and Depreciation Charges. American Statistician, 1989, 43, 12-16.	1.6	2
82	A Bear Trap in Using the IOWA-Curve Methodology for Property Retirements and Depreciation Charges. American Statistician, 1989, 43, 12.	1.6	2
83	A New Perspective on Damage Accumulation, Markov Processes, and Weibull's Distribution. , 2010, , 241-249.		2
84	A Problem in Accelerated Life Testing. Journal of the American Statistical Association, 1971, 66, 841.	3.1	2
85	An Adaptive Concatenated Failure Rate Model for Software Reliability. Journal of the American Statistical Association, 1998, 93, 1150.	3.1	2
86	A method for reliability estimation of logical structures. Engineering Fracture Mechanics, 1976, 8, 229-237.	4.3	1
87	Discussion of Thiruvaiyaru and Basawa's "Empirical Bayes estimation for queueing systems and networks". Queueing Systems, 1992, 11, 203-206.	0.9	1
88	Is reliability a new science? A paper from the panel session held at the 10th International Conference on Mathematical Methods in Reliability. Applied Stochastic Models in Business and Industry, 2019, 35, 260-269.	1.5	1
89	PREDICTING DAMAGE. Series on Quality, Reliability and Engineering Statistics, 2003, , 267-281.	0.2	1
90	Warranty: A Surrogate of Reliability. Profiles in Operations Research, 2004, , 317-333.	0.4	1

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91	A KALMAN FILTER APPROACH TO ACCELERATED LIFE TESTINGâ€™A PRELIMINARY DEVELOPMENT. , 1984, , 169-175.		1
92	Some Inequalities for Certain Functions of Order Statistics from IFR Distributions. Journal of the American Statistical Association, 1975, 70, 245-247.	3.1	0
93	Statistical Analysis of Reliability Data (M. J. Crowder, A. C. Kimber, R. L. Smith, and T. J. Sweeting). SIAM Review, 1993, 35, 535-538.	9.5	0
94	20. Data Fusion and Maintenance Policies for Continuous Production Processes. , 1998, , 167-178.		0
95	The Point Process Paradox: Where Should We Extend the Conversation?. American Statistician, 2000, 54, 119-120.	1.6	0
96	Information Fusion for Damage Prediction. , 0, , 251-265.		0
97	3. Probability Theory. , 2002, , 55-71.		0
98	â€™Understanding the shape of the mixture failure rateâ€™™ by Maxim Finkelstein: Discussion 1. Applied Stochastic Models in Business and Industry, 2009, 25, 665-668.	1.5	0
99	A Problem in Particle Physics and Its Bayesian Analysis. Statistical Science, 2011, 26, .	2.8	0
100	Network routing in a dynamic environment. Annals of Applied Statistics, 2011, 5, .	1.1	0
101	Anatomy of the failure rate: A mathematical dissection. Applied Stochastic Models in Business and Industry, 2011, 27, 164-171.	1.5	0
102	Adaptive Percolation Using Subjective Likelihoods. Econometric Reviews, 2014, 33, 379-394.	1.1	0
103	Seeking relationships in big data: a Bayesian perspective. International Journal of Management Science and Engineering Management, 2016, 11, 116-121.	3.1	0
104	Rejoinder to the discussions. Applied Stochastic Models in Business and Industry, 2019, 35, 279-280.	1.5	0
105	Filtering, Smoothing, and Extrapolations in Dose-Response Experiments: Application to Data on Respiratory Tumors in Rats. Lecture Notes in Statistics, 1992, , 277-288.	0.2	0