

# 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	Rejoinder to the discussions. Applied Stochastic Models in Business and Industry, 2019, 35, 279-280.	1.5	0
2	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
3	From Least Squares to Signal Processing and Particle Filtering. Technometrics, 2018, 60, 146-160.	1.9	11
4	Adversarial and Amiable Inference in Medical Diagnosis, Reliability and Survival Analysis. International Statistical Review, 2016, 84, 390-412.	1.9	3
5	Filtering and Tracking Survival Propensity (Reconsidering the Foundations of Reliability). Statistical Science, 2016, 31, .	2.8	3
6	Seeking relationships in big data: a Bayesian perspective. International Journal of Management Science and Engineering Management, 2016, 11, 116-121.	3.1	0
7	Auditing Shaked and Shanthikumar's "excess wealth". Annals of Operations Research, 2014, 212, 3-19.	4.1	4
8	Adaptive Percolation Using Subjective Likelihoods. Econometric Reviews, 2014, 33, 379-394.	1.1	0
9	A Problem in Particle Physics and Its Bayesian Analysis. Statistical Science, 2011, 26, .	2.8	0
10	Network routing in a dynamic environment. Annals of Applied Statistics, 2011, 5, .	1.1	0
11	Anatomy of the failure rate: A mathematical dissection. Applied Stochastic Models in Business and Industry, 2011, 27, 164-171.	1.5	0
12	A New Perspective on Damage Accumulation, Marker Processes, and Weibull's Distribution. , 2010, , 241-249.		2
13	The utility of reliability and survival. Annals of Applied Statistics, 2009, 3, .	1.1	4
14	"Understanding the shape of the mixture failure rate" by Maxim Finkelstein: Discussion 1. Applied Stochastic Models in Business and Industry, 2009, 25, 665-668.	1.5	0
15	Many-valued Logic in Multistate and Vague Stochastic Systems. International Statistical Review, 2008, 76, 247-267.	1.9	5
16	Choosing a Coverage Probability for Prediction Intervals. American Statistician, 2008, 62, 120-124.	1.6	20
17	Probability, chance and the probability of chance. IIE Transactions, 2008, 41, 12-22.	2.1	12
18	A Bayesian Ponders "The Quality of Life", 2008, , 369-381.		3

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19	RELIABILITY AND SURVIVAL IN FINANCIAL RISK. , 2007, , 93-114.		3
20	Betting on residual life: The caveats of conditioning. Statistics and Probability Letters, 2007, 77, 1354-1361.	0.7	8
21	The Hazard Potential. Journal of the American Statistical Association, 2006, 101, 1705-1717.	3.1	37
22	Reliability Allocation for Networks and Systems. SIAM Review, 2006, 48, 43-65.	9.5	3
23	On competing risk and degradation processes. , 2006, , 229-240.		9
24	Decelerated Testing: A Hierarchical Bayes Approach. Technometrics, 2005, 47, 468-477.	1.9	4
25	Membership Functions and Probability Measures of Fuzzy Sets. Journal of the American Statistical Association, 2004, 99, 867-877.	3.1	131
26	Warranty: A Surrogate of Reliability. Profiles in Operations Research, 2004, , 317-333.	0.4	1
27	Knowledge management and information superiority (a taxonomy). Journal of Statistical Planning and Inference, 2003, 115, 361-364.	0.6	5
28	Ch. 30. Stochastic process models for reliability in dynamic environments. Handbook of Statistics, 2003, , 1109-1129.	0.6	8
29	PREDICTING DAMAGE. Series on Quality, Reliability and Engineering Statistics, 2003, , 267-281.	0.2	1
30	3. Probability Theory. , 2002, , 55-71.		0
31	On exchangeable, causal and cascading failures. Statistical Science, 2002, 17, 209.	2.8	36
32	On Causality and Causal Mechanisms: Comment on Dennis Lindley's "Seeing and Doing: the Concept of Causation". International Statistical Review, 2002, 70, 198-206.	1.9	7
33	Network Reliability and Borel's Paradox. American Statistician, 2001, 55, 213-218.	1.6	9
34	The Point Process Paradox: Where Should We Extend the Conversation?. American Statistician, 2000, 54, 119-120.	1.6	0
35	The stochastic control of process capability indices. Test, 1998, 7, 1-74.	1.1	6
36	An Adaptive Concatenated Failure Rate Model for Software Reliability. Journal of the American Statistical Association, 1998, 93, 1150-1163.	3.1	12

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37	20. Data Fusion and Maintenance Policies for Continuous Production Processes. , 1998, , 167-178.		0
38	An Adaptive Concatenated Failure Rate Model for Software Reliability. Journal of the American Statistical Association, 1998, 93, 1150.	3.1	2
39	Assessing the Reliability of Software: An Overview. , 1996, , 345-367.		9
40	The Notion of "Composite Reliability" and its Hierarchical Bayes Estimation. Journal of the American Statistical Association, 1996, 91, 1474-1484.	3.1	14
41	The exponentiation formula of reliability and survival: Does it always hold?. Lifetime Data Analysis, 1995, 1, 187-194.	0.9	12
42	Survival in Dynamic Environments. Statistical Science, 1995, 10, 86.	2.8	404
43	Inference and Predictions from Poisson Point Processes Incorporating Expert Knowledge. Journal of the American Statistical Association, 1995, 90, 220-226.	3.1	26
44	To Survive or to Fail: That is the Question. American Statistician, 1994, 48, 18-21.	1.6	8
45	Software Reliability Modeling. International Statistical Review, 1994, 62, 289.	1.9	152
46	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
47	Adversarial Life Testing. Journal of the Royal Statistical Society Series B: Methodological, 1993, 55, 837-847.	0.7	4
48	A BAYESIAN PERSPECTIVE ON TAGUCHI'S APPROACH TO QUALITY ENGINEERING AND TOLERANCE DESIGN. IIE Transactions, 1992, 24, 18-31.	2.1	77
49	Discussion of Thiruvaiyaru and Basawa's "Empirical Bayes estimation for queueing systems and networks". Queueing Systems, 1992, 11, 203-206.	0.9	1
50	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
51	Inference under planned maintenance, warranties, and other retrospective data. Journal of Statistical Planning and Inference, 1991, 29, 171-185.	0.6	3
52	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
53	On the Evidence Needed to Reach Agreed Action Between Adversaries, with Application to Acceptance Sampling. Journal of the American Statistical Association, 1991, 86, 933.	3.1	6
54	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

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55	A Bear Trap in Using the IOWA-Curve Methodology for Property Retirements and Depreciation Charges. American Statistician, 1989, 43, 12-16.	1.6	2
56	A Unifying Perspective on Statistical Modeling. SIAM Review, 1989, 31, 560-564.	9.5	4
57	Robustification of Kalman Filter Models. Journal of the American Statistical Association, 1989, 84, 479-486.	3.1	129
58	A Bear Trap in Using the IOWA-Curve Methodology for Property Retirements and Depreciation Charges. American Statistician, 1989, 43, 12.	1.6	2
59	Robustification of Kalman Filter Models. Journal of the American Statistical Association, 1989, 84, 479.	3.1	30
60	Foundational Issues in Reliability and Risk Analysis. SIAM Review, 1988, 30, 264-282.	9.5	59
61	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
62	5 Software reliability models. Handbook of Statistics, 1988, 7, 73-98.	0.6	4
63	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
64	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
65	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
66	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
67	A subjective Bayesian approach to the theory of queues I ? Modeling. Queueing Systems, 1987, 1, 317-333.	0.9	59
68	Reliability (and Fault Tree) Analysis Using Expert Opinions. Journal of the American Statistical Association, 1986, 81, 87-90.	3.1	58
69	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
70	Reliability (and Fault Tree) Analysis Using Expert Opinions. Journal of the American Statistical Association, 1986, 81, 87.	3.1	9
71	Assessing the Reliability of Computer Software and Computer Networks: An Opportunity for Partnership with Computer Scientists. American Statistician, 1985, 39, 88.	1.6	16
72	A bayesian approach to inference for monotone failure rates. Statistics and Probability Letters, 1985, 3, 135-141.	0.7	8

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73	Assessing the Reliability of Computer Software and Computer Networks: An Opportunity for Partnership with Computer Scientists. American Statistician, 1985, 39, 88-94.	1.6	8
74	Robustness of Sequential Exponential Life-Testing Procedures. Journal of the American Statistical Association, 1985, 80, 715-719.	3.1	14
75	A Unification of Some Software Reliability Models. SIAM Journal on Scientific and Statistical Computing, 1985, 6, 781-790.	1.5	170
76	Robustness of Sequential Exponential Life-Testing Procedures. Journal of the American Statistical Association, 1985, 80, 715.	3.1	6
77	An Empirically Developed Fourier Series Model for Describing Software Failures. IEEE Transactions on Reliability, 1984, R-33, 176-183.	4.6	49
78	A KALMAN FILTER APPROACH TO ACCELERATED LIFE TESTING—A PRELIMINARY DEVELOPMENT. , 1984, , 169-175.		1
79	Inference for step-stress accelerated life tests. Journal of Statistical Planning and Inference, 1983, 7, 295-306.	0.6	66
80	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
81	Understanding the Kalman Filter. American Statistician, 1983, 37, 123-127.	1.6	416
82	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
83	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
84	On the sample redundancy and a test for exponentiality. Communications in Statistics - Theory and Methods, 1982, 11, 429-438.	1.0	6
85	Testing of Hypotheses for Distributions in Accelerated Life Tests. Journal of the American Statistical Association, 1982, 77, 204-208.	3.1	29
86	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
87	Testing of Hypotheses for Distributions in Accelerated Life Tests. Journal of the American Statistical Association, 1982, 77, 204.	3.1	9
88	A Reliability Model for Sectionalized Precipitators. Journal of the Air Pollution Control Association, 1981, 31, 144-147.	0.5	3
89	Relationships Between Some Notions Which are Common to Reliability Theory and Economics. Mathematics of Operations Research, 1981, 6, 113-121.	1.3	66
90	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

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91	A New Approach To Inference From Accelerated Life Tests. IEEE Transactions on Reliability, 1980, R-29, 98-102.	4.6	26
92	Optimal Time Intervals for Testing Hypotheses on Computer Software Errors. IEEE Transactions on Reliability, 1979, R-28, 250-253.	4.6	43
93	An Empirical Stopping Rule for Debugging and Testing Computer Software. Journal of the American Statistical Association, 1977, 72, 750-757.	3.1	58
94	An Empirical Stopping Rule for Debugging and Testing Computer Software. Journal of the American Statistical Association, 1977, 72, 750.	3.1	71
95	A method for reliability estimation of logical structures. Engineering Fracture Mechanics, 1976, 8, 229-237.	4.3	1
96	Inference from accelerated life tests using eyring type re-parameterizations. Naval Research Logistics Quarterly, 1975, 22, 289-296.	0.4	16
97	Some Inequalities for Certain Functions of Order Statistics from IFR Distributions. Journal of the American Statistical Association, 1975, 70, 245-247.	3.1	0
98	Inference from Accelerated Life Tests Using Arrhenius Type Re-Parameterizations. Technometrics, 1973, 15, 289-299.	1.9	18
99	Statistical Fatigue Models: A Survey. IEEE Transactions on Reliability, 1971, R-20, 185-189.	4.6	15
100	A Problem in Accelerated Life Testing. Journal of the American Statistical Association, 1971, 66, 841-845.	3.1	22
101	A Problem in Accelerated Life Testing. Journal of the American Statistical Association, 1971, 66, 841.	3.1	2
102	A sequential bayes procedure for reliability demonstration. Naval Research Logistics Quarterly, 1970, 17, 55-67.	0.4	16
103	On estimation in weibull distributions with random scale parameters. Naval Research Logistics Quarterly, 1969, 16, 405-410.	0.4	8
104	Life Distributions Derived from Stochastic Hazard Functions. IEEE Transactions on Reliability, 1968, R-17, 70-79.	4.6	58
105	Information Fusion for Damage Prediction. , 0, , 251-265.		0