

Jorge Navarro

List of Publications by Year in descending order

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143
papers

4,455
citations

109137

35
h-index

143772

57
g-index

147
all docs

147
docs citations

147
times ranked

1056
citing authors

#	ARTICLE	IF	CITATIONS
1	On the application and extension of system signatures in engineering reliability. Naval Research Logistics, 2008, 55, 313-327.	1.4	217
2	Reliability and expectation bounds for coherent systems with exchangeable components. Journal of Multivariate Analysis, 2007, 98, 102-113.	0.5	166
3	Properties of Coherent Systems with Dependent Components. Communications in Statistics - Theory and Methods, 2007, 36, 175-191.	0.6	159
4	Some new results on the cumulative residual entropy. Journal of Statistical Planning and Inference, 2010, 140, 310-322.	0.4	127
5	A note on comparisons among coherent systems with dependent components using signatures. Statistics and Probability Letters, 2005, 72, 179-185.	0.4	113
6	Mixture Representations of Residual Lifetimes of Used Systems. Journal of Applied Probability, 2008, 45, 1097-1112.	0.4	109
7	Stochastic ordering properties for systems with dependent identically distributed components. Applied Stochastic Models in Business and Industry, 2013, 29, 264-278.	0.9	104
8	The distribution of cluster pine (<i>Pinus pinaster</i>) in Spain as derived from palaeoecological data: relationships with phytosociological classification. Holocene, 2000, 10, 243-252.	0.9	95
9	Computations of Signatures of Coherent Systems with Five Components. Communications in Statistics Part B: Simulation and Computation, 2009, 39, 68-84.	0.6	88
10	Comparisons of series and parallel systems with components sharing the same copula. Applied Stochastic Models in Business and Industry, 2010, 26, 775-791.	0.9	87
11	Some results on residual entropy function. Metrika, 2004, 59, 147-161.	0.5	84
12	Mean residual life functions of finite mixtures, order statistics and coherent systems. Metrika, 2008, 67, 277-298.	0.5	79
13	Dynamic signatures and their use in comparing the reliability of new and used systems. Naval Research Logistics, 2009, 56, 577-591.	1.4	76
14	Generalized cumulative residual entropy and record values. Metrika, 2013, 76, 623-640.	0.5	74
15	Preservation of reliability classes under the formation of coherent systems. Applied Stochastic Models in Business and Industry, 2014, 30, 444-454.	0.9	72
16	An experimental approach to the palynology of cave deposits. Journal of Quaternary Science, 2000, 15, 603-619.	1.1	71
17	Comparisons and bounds for expected lifetimes of reliability systems. European Journal of Operational Research, 2010, 207, 309-317.	3.5	70
18	HOW TO OBTAIN BATHTUB-SHAPED FAILURE RATE MODELS FROM NORMAL MIXTURES. Probability in the Engineering and Informational Sciences, 2004, 18, 511-531.	0.6	68

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19	Hazard rate ordering of order statistics and systems. Journal of Applied Probability, 2006, 43, 391-408.	0.4	65
20	Hazard rate ordering of order statistics and systems. Journal of Applied Probability, 2006, 43, 391-408.	0.4	65
21	The Joint Signature of Coherent Systems with Shared Components. Journal of Applied Probability, 2010, 47, 235-253.	0.4	64
22	Preservation of Stochastic Orders under the Formation of Generalized Distorted Distributions. Applications to Coherent Systems. Methodology and Computing in Applied Probability, 2016, 18, 529-545.	0.7	63
23	Mean Residual Lifetimes of Consecutive- k -out-of- n Systems. Journal of Applied Probability, 2007, 44, 82-98.	0.4	61
24	Signature-Based Representations for the Reliability of Systems with Heterogeneous Components. Journal of Applied Probability, 2011, 48, 856-867.	0.4	61
25	Characterizations based on conditional expectations of the doubled truncated distribution. Annals of the Institute of Statistical Mathematics, 1996, 48, 563-572.	0.5	56
26	On comparing coherent systems with heterogeneous components. Advances in Applied Probability, 2016, 48, 88-111.	0.4	55
27	Orderings of coherent systems with randomized dependent components. European Journal of Operational Research, 2015, 240, 127-139.	3.5	52
28	Stochastic comparisons of generalized mixtures and coherent systems. Test, 2016, 25, 150-169.	0.7	50
29	Mixture Representations for the Joint Distribution of Lifetimes of two Coherent Systems with Shared Components. Advances in Applied Probability, 2013, 45, 1011-1027.	0.4	44
30	Comparisons of coherent systems using stochastic precedence. Test, 2010, 19, 469-486.	0.7	43
31	Applications of average and projected systems to the study of coherent systems. Journal of Multivariate Analysis, 2010, 101, 1471-1482.	0.5	43
32	Likelihood ratio ordering of order statistics, mixtures and systems. Journal of Statistical Planning and Inference, 2008, 138, 1242-1257.	0.4	42
33	Copula-based representations for the reliability of the residual lifetimes of coherent systems with dependent components. Journal of Multivariate Analysis, 2017, 158, 87-102.	0.5	41
34	Multivariate weighted distributions: a review and some extensions. Statistics, 2006, 40, 51-64.	0.3	40
35	Coherent systems based on sequential order statistics. Naval Research Logistics, 2011, 58, 123-135.	1.4	39
36	Bathtub Shaped Failure Rates From Mixtures: A Practical Point of View. IEEE Transactions on Reliability, 2005, 54, 270-275.	3.5	38

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37	Generalized mixtures in reliability modelling: Applications to the construction of bathtub shaped hazard models and the study of systems. Applied Stochastic Models in Business and Industry, 2009, 25, 323-337.	0.9	37
38	Failure-rate functions for doubly-truncated random variables. IEEE Transactions on Reliability, 1996, 45, 685-690.	3.5	36
39	Exact nonparametric inference for component lifetime distribution based on lifetime data from systems with known signatures. Journal of Nonparametric Statistics, 2011, 23, 741-752.	0.4	36
40	Minimal repair of failed components in coherent systems. European Journal of Operational Research, 2019, 279, 951-964.	3.5	36
41	Characterization of distributions by relationships between failure rate and mean residual life. IEEE Transactions on Reliability, 1994, 43, 640-644.	3.5	35
42	Characterizations through reliability measures from weighted distributions. Statistical Papers, 2001, 42, 395-402.	0.7	35
43	Kernel density estimation using weighted data $\hat{\mu}$. Communications in Statistics - Theory and Methods, 1998, 27, 2123-2135.	0.6	34
44	A note on necessary and sufficient conditions for ordering properties of coherent systems with exchangeable components. Naval Research Logistics, 2011, 58, 478-489.	1.4	34
45	Joint signature of two or more systems with applications to multistate systems made up of two-state components. European Journal of Operational Research, 2017, 263, 559-570.	3.5	34
46	Birnbaum Importance Measure for Reliability Systems With Dependent Components. IEEE Transactions on Reliability, 2019, 68, 439-450.	3.5	34
47	Linear Inference for Type-II Censored Lifetime Data of Reliability Systems With Known Signatures. IEEE Transactions on Reliability, 2011, 60, 426-440.	3.5	33
48	Some properties of the cumulative residual entropy of coherent and mixed systems. Journal of Applied Probability, 2017, 54, 379-393.	0.4	32
49	Stochastic comparisons of distorted distributions, coherent systems and mixtures with ordered components. Metrika, 2017, 80, 627-648.	0.5	31
50	Study of some measures of dependence between order statistics and systems. Journal of Multivariate Analysis, 2010, 101, 52-67.	0.5	30
51	Comparisons in the mean residual life order of coherent systems with identically distributed components. Applied Stochastic Models in Business and Industry, 2016, 32, 33-47.	0.9	29
52	DISTRIBUTIONAL CHARACTERIZATIONS THROUGH SCALING RELATIONS. Australian and New Zealand Journal of Statistics, 2007, 49, 115-135.	0.4	27
53	Ordering Properties of Systems with Two Dependent Components. Communications in Statistics - Theory and Methods, 2007, 36, 645-655.	0.6	26
54	Distribution-free comparisons of residual lifetimes of coherent systems based on copula properties. Statistical Papers, 2018, 59, 781-800.	0.7	25

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55	On the relationships between copulas of order statistics and marginal distributions. <i>Statistics and Probability Letters</i> , 2010, 80, 473-479.	0.4	24
56	Parametric inference from system lifetime data under a proportional hazard rate model. <i>Metrika</i> , 2012, 75, 367-388.	0.5	24
57	A very simple proof of the multivariate Chebyshev's inequality. <i>Communications in Statistics - Theory and Methods</i> , 2016, 45, 3458-3463.	0.6	24
58	A study on multi-level redundancy allocation in coherent systems formed by modules. <i>Reliability Engineering and System Safety</i> , 2021, 213, 107694.	5.1	24
59	Some Relationships Between Skew-Normal Distributions and Order Statistics from Exchangeable Normal Random Vectors. <i>Communications in Statistics - Theory and Methods</i> , 2007, 36, 1719-1733.	0.6	23
60	Characterizations of bivariate models using dynamic Kullback-Leibler discrimination measures. <i>Statistics and Probability Letters</i> , 2011, 81, 1594-1598.	0.4	23
61	Comparisons Between Largest Order Statistics from Multiple-outlier Models with Dependence. <i>Methodology and Computing in Applied Probability</i> , 2018, 20, 411-433.	0.7	23
62	Reliability properties of bivariate conditional proportional hazard rate models. <i>Journal of Multivariate Analysis</i> , 2013, 113, 116-127.	0.5	22
63	Characterizations using weighted distributions. <i>Journal of Statistical Planning and Inference</i> , 2003, 116, 389-420.	0.4	21
64	Some properties of the minimum and the maximum of random variables with joint logconcave distributions. <i>Metrika</i> , 2010, 71, 313-317.	0.5	21
65	Comparison results for inactivity times of k-out-of-n and general coherent systems with dependent components. <i>Test</i> , 2017, 26, 822-846.	0.7	21
66	Bounds on Variances of Lifetimes of Coherent and Mixed Systems. <i>Journal of Applied Probability</i> , 2009, 46, 894-908.	0.4	20
67	AGING PROPERTIES OF SEQUENTIAL ORDER STATISTICS. <i>Probability in the Engineering and Informational Sciences</i> , 2011, 25, 449-467.	0.6	20
68	Stochastic comparisons of coherent systems. <i>Metrika</i> , 2018, 81, 465-482.	0.5	20
69	STOCHASTIC COMPARISONS OF SYSTEMS BASED ON SEQUENTIAL ORDER STATISTICS VIA PROPERTIES OF DISTORTED DISTRIBUTIONS. <i>Probability in the Engineering and Informational Sciences</i> , 2018, 32, 246-274.	0.6	20
70	Bounds on Variances of Lifetimes of Coherent and Mixed Systems. <i>Journal of Applied Probability</i> , 2009, 46, 894-908.	0.4	20
71	New Stochastic Orders Based on Double Truncation. <i>Probability in the Engineering and Informational Sciences</i> , 1997, 11, 395-402.	0.6	19
72	Are the Order Statistics Ordered? A Survey of Recent Results. <i>Communications in Statistics - Theory and Methods</i> , 2007, 36, 1273-1290.	0.6	19

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73	Properties of systems with two exchangeable Pareto components. <i>Statistical Papers</i> , 2007, 49, 177-190.	0.7	19
74	Characterizations from Relationships Between Failure Rate Functions and Conditional Moments. <i>Communications in Statistics - Theory and Methods</i> , 2004, 33, 3159-3171.	0.6	18
75	Mixture Representations of Residual Lifetimes of Used Systems. <i>Journal of Applied Probability</i> , 2008, 45, 1097-1112.	0.4	18
76	Alternative definitions of bivariate equilibrium distributions. <i>Journal of Statistical Planning and Inference</i> , 2010, 140, 2046-2056.	0.4	18
77	Characterizations of Bivariate Models Using Some Dynamic Conditional Information Divergence Measures. <i>Communications in Statistics - Theory and Methods</i> , 2014, 43, 1939-1948.	0.6	18
78	Characterizations based on generalized cumulative residual entropy functions. <i>Communications in Statistics - Theory and Methods</i> , 2017, 46, 1247-1260.	0.6	18
79	Stochastic comparisons of replacement policies in coherent systems under minimal repair. <i>Naval Research Logistics</i> , 2018, 65, 550-565.	1.4	18
80	Tail hazard rate ordering properties of order statistics and coherent systems. <i>Naval Research Logistics</i> , 2007, 54, 820-828.	1.4	17
81	Characterizations using the bivariate failure rate function. <i>Statistics and Probability Letters</i> , 2008, 78, 1349-1354.	0.4	17
82	Comparisons of coherent systems with non-identically distributed components. <i>Journal of Statistical Planning and Inference</i> , 2012, 142, 1310-1319.	0.4	17
83	Dynamic Signatures of Coherent Systems Based on Sequential Order Statistics. <i>Journal of Applied Probability</i> , 2013, 50, 272-287.	0.4	17
84	Reliability properties of systems with exchangeable components and exponential conditional distributions. <i>Test</i> , 2006, 15, 471-484.	0.7	16
85	Characterizations and ordering properties based on log-odds functions. <i>Statistics</i> , 2008, 42, 313-328.	0.3	16
86	Preservation of DMRL and IMRL aging classes under the formation of order statistics and coherent systems. <i>Statistics and Probability Letters</i> , 2018, 137, 264-268.	0.4	16
87	Stochastic comparisons and bounds for conditional distributions by using copula properties. <i>Dependence Modeling</i> , 2018, 6, 156-177.	0.2	16
88	Introduction to System Reliability Theory. , 2022, , .		16
89	KERNEL ESTIMATION OF RESIDUAL ENTROPY. <i>Communications in Statistics - Theory and Methods</i> , 2001, 30, 1243-1255.	0.6	15
90	Signature-Based Representations for the Reliability of Systems with Heterogeneous Components. <i>Journal of Applied Probability</i> , 2011, 48, 856-867.	0.4	15

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91	PROPERTIES FOR GENERALIZED CUMULATIVE PAST MEASURES OF INFORMATION. Probability in the Engineering and Informational Sciences, 2020, 34, 92-111.	0.6	14
92	Signatures and Symmetry Properties of Coherent Systems. Springer Series in Reliability Engineering, 2012, , 33-48.	0.3	14
93	Characterizations of Arnold and Strauss's™ and related bivariate exponential models. Journal of Multivariate Analysis, 2007, 98, 1494-1507.	0.5	13
94	The Joint Signature of Coherent Systems with Shared Components. Journal of Applied Probability, 2010, 47, 235-253.	0.4	13
95	Distorted Lorenz curves: models and comparisons. Social Choice and Welfare, 2014, 42, 761-780.	0.4	13
96	On the extension of signature-based representations for coherent systems with dependent non-exchangeable components. Journal of Applied Probability, 2020, 57, 429-440.	0.4	13
97	Can the bounds in the multivariate Chebyshev inequality be attained?. Statistics and Probability Letters, 2014, 91, 1-5.	0.4	12
98	Characterization of discrete distributions using expected values. Statistical Papers, 1995, 36, 237.	0.7	11
99	A unified approach to characterization problems using conditional expectations. Journal of Statistical Planning and Inference, 1998, 69, 193-207.	0.4	11
100	A characterization of the multivariate normal distribution by using the hazard gradient. Annals of the Institute of Statistical Mathematics, 2004, 56, 361-367.	0.5	11
101	Parametric inference for component distributions from lifetimes of systems with dependent components. Naval Research Logistics, 2012, 59, 487-496.	1.4	11
102	Failure rates of consecutive -out-of- systems. Journal of the Korean Statistical Society, 2012, 41, 1-11.	0.3	11
103	Progressive T-type censoring and coherent systems. Naval Research Logistics, 2015, 62, 512-530.	1.4	11
104	Inactivity times of coherent systems with dependent components under periodical inspections. Applied Stochastic Models in Business and Industry, 2019, 35, 871-892.	0.9	11
105	Preservation of ILR and IFR aging classes in sums of dependent random variables. Applied Stochastic Models in Business and Industry, 2022, 38, 240-261.	0.9	11
106	Nonparametric estimator for mean residual life and vitality function. Statistical Papers, 1998, 39, 263-276.	0.7	10
107	Asymptotic behavior of the hazard rate in systems based on sequential order statistics. Metrika, 2014, 77, 965-994.	0.5	10
108	Bivariate distributions with conditionals satisfying the proportional generalized odds rate model. Metrika, 2015, 78, 691-709.	0.5	10

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109	Sharp bounds for the reliability of systems and mixtures with ordered components. Naval Research Logistics, 2017, 64, 108-116.	1.4	10
110	Parametric Estimation from Weighted Samples. Biometrical Journal, 2001, 43, 297-311.	0.6	9
111	Characterizations by Power Contractions of Order Statistics. Communications in Statistics - Theory and Methods, 2008, 37, 987-997.	0.6	9
112	The progressive censoring signature of coherent systems. Applied Stochastic Models in Business and Industry, 2016, 32, 697-710.	0.9	9
113	Aggregation and signature based comparisons of multi-state systems via decompositions of fuzzy measures. Fuzzy Sets and Systems, 2020, 396, 115-137.	1.6	9
114	Redundancy in systems with heterogeneous dependent components. European Journal of Operational Research, 2021, 290, 766-778.	3.5	9
115	Negative Mixtures Order Statistics and Systems. , 2008, , 89-100.		9
116	How to Detect Biased Samples?. Biometrical Journal, 2003, 45, 91-112.	0.6	8
117	Systems with Exchangeable Components and Gumbel Exponential Distribution. , 2006, , 291-306.		8
118	COPULA REPRESENTATIONS FOR THE SUM OF DEPENDENT RISKS: MODELS AND COMPARISONS. Probability in the Engineering and Informational Sciences, 2022, 36, 320-340.	0.6	8
119	Mixture Representations for the Joint Distribution of Lifetimes of two Coherent Systems with Shared Components. Advances in Applied Probability, 2013, 45, 1011-1027.	0.4	7
120	Comparisons of coherent systems under the time-transformed exponential model. Test, 2020, 29, 255-281.	0.7	7
121	Conditions on marginals and copula of component lifetimes for signature representation of system lifetime. Fuzzy Sets and Systems, 2021, 415, 99-117.	1.6	7
122	Signature Representation and Preservation Results for Engineered Systems and Applications to Statistical Inference. Springer Series in Reliability Engineering, 2012, , 1-22.	0.3	7
123	Weak Dependence Notions and Their Mutual Relationships. Mathematics, 2021, 9, 81.	1.1	7
124	Bounds for the reliability functions of coherent systems with heterogeneous components. Applied Stochastic Models in Business and Industry, 2018, 34, 158-174.	0.9	6
125	Effective procedure of verifying stochastic ordering of system lifetimes. Journal of Applied Probability, 2018, 55, 1261-1271.	0.4	6
126	Ranking the extreme claim amounts in dependent individual risk models. Scandinavian Actuarial Journal, 2021, 2021, 218-247.	1.0	6

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127	Joint Reliability Function of Coherent Systems with Shared Heterogeneous Components. Methodology and Computing in Applied Probability, 2022, 24, 1485-1502.	0.7	6
128	Prediction of record values by using quantile regression curves and distortion functions. Metrika, 2022, 85, 675-706.	0.5	5
129	Distortion representations of multivariate distributions. Statistical Methods and Applications, 2022, 31, 925-954.	0.7	5
130	A decision theoretic framework for reliability-based optimal wind turbine selection. Reliability Engineering and System Safety, 2022, 221, 108291.	5.1	5
131	Some characterizations of multivariate distributions using products of the hazard gradient and mean residual life components. Statistics, 2007, 41, 85-91.	0.3	4
132	RELATIONSHIPS BETWEEN IMPORTANCE MEASURES AND REDUNDANCY IN SYSTEMS WITH DEPENDENT COMPONENTS. Probability in the Engineering and Informational Sciences, 2020, 34, 583-604.	0.6	4
133	Connecting copula properties with reliability properties of coherent systems. Applied Stochastic Models in Business and Industry, 2021, 37, 496-512.	0.9	4
134	Bivariate box plots based on quantile regression curves. Dependence Modeling, 2020, 8, 132-156.	0.2	4
135	Stochastic monotonicity of dependent variables given their sum. Test, 0, , 1.	0.7	3
136	Mean Residual Lifetimes of Consecutive-k-out-of-n Systems. Journal of Applied Probability, 2007, 44, 82-98.	0.4	2
137	Likelihood ratio comparisons and logconvexity properties of p -spacings from generalized order statistics. Probability in the Engineering and Informational Sciences, 2023, 37, 86-105.	0.6	2
138	Distribution-Free Comparisons of Coherent Systems. , 2016, , .		1
139	â€œUnderstanding the shape of the mixture failure rateâ€™ by Maxim Finkelstein: Discussion 2. Applied Stochastic Models in Business and Industry, 2009, 25, 669-672.	0.9	0
140	Stochastic Comparisons. , 2022, , 71-116.		0
141	Coherent System Lifetimes. , 2022, , 23-70.		0
142	Aging Properties. , 2022, , 117-146.		0
143	On sums of dependent random lifetimes under the time-transformed exponential model. Test, 0, , 1.	0.7	0