

J George Shanthikumar

List of Publications by Year in descending order

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123
papers

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citations

100601

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60
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124
all docs

124
docs citations

124
times ranked

1688
citing authors

#	ARTICLE	IF	CITATIONS
1	Consumer Choice Models and Estimation: A Review and Extension. Production and Operations Management, 2022, 31, 847-867.	2.1	11
2	Special issue editorial: Smart supply chains and intelligent logistics services. Transportation Research, Part E: Logistics and Transportation Review, 2021, 147, 102256.	3.7	20
3	How Research in Production and Operations Management May Evolve in the Era of Big Data. Production and Operations Management, 2018, 27, 1670-1684.	2.1	166
4	Posted Pricing vs. Bargaining in Sequential Selling Process. Operations Research, 2018, 66, 92-103.	1.2	20
5	Supply and Demand Functions in Inventory Models. Operations Research, 2018, 66, 77-91.	1.2	51
6	Arrangement Increasing Resource Allocation. Methodology and Computing in Applied Probability, 2018, 20, 935-955.	0.7	6
7	Arrangement Increasing Resource Allocation. SSRN Electronic Journal, 2017, , .	0.4	0
8	Not-for-Profit Operations Management. , 2017, , 510-526.		15
9	Postponable Acceptance and Assignment: A Stochastic Dynamic Programming Approach. Manufacturing and Service Operations Management, 2016, 18, 493-508.	2.3	9
10	Multivariate conditional hazard rate functions "an overview. Applied Stochastic Models in Business and Industry, 2015, 31, 285-296.	0.9	21
11	ROBUST ASSET ALLOCATION WITH BENCHMARKED OBJECTIVES. Mathematical Finance, 2010, 21, no-no.	0.9	6
12	Robust intensity control with multiple levels of model uncertainty and the dual risk-sensitive problem. , 2010, , .		1
13	Relative Entropy, Exponential Utility, and Robust Dynamic Pricing. Operations Research, 2007, 55, 198-214.	1.2	149
14	Stochastic Modeling for Serial-Batching Workstations with Heterogeneous Machines. , 2007, , .		0
15	Queueing Theory for Semiconductor Manufacturing Systems: A Survey and Open Problems. IEEE Transactions on Automation Science and Engineering, 2007, 4, 513-522.	3.4	111
16	John A. Buzacott and His Pioneering Contributions to Manufacturing and Service Systems. Production and Operations Management, 2007, 16, 657-664.	2.1	4
17	OPTIMAL CONTROL OF A MAKE-TO-STOCK SYSTEM WITH ADJUSTABLE SERVICE RATE. Probability in the Engineering and Informational Sciences, 2006, 20, 609-634.	0.6	11
18	Staffing decisions for heterogeneous workers with turnover. Mathematical Methods of Operations Research, 2005, 62, 499-514.	0.4	25

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19	Estimating Effective Capacity in Erlang Loss Systems under Competition. Queueing Systems, 2005, 49, 23-47.	0.6	2
20	On increasing-failure-rate random variables. Journal of Applied Probability, 2005, 42, 797-809.	0.4	17
21	On increasing-failure-rate random variables. Journal of Applied Probability, 2005, 42, 797-809.	0.4	19
22	Using in-line equipment condition and yield information for maintenance scheduling and dispatching in semiconductor wafer fabs. IIE Transactions, 2002, 34, 191-209.	2.1	32
23	Stochastic allocation of inspection capacity to competitive processes. Naval Research Logistics, 2002, 49, 78-94.	1.4	5
24	Title is missing!. IIE Transactions, 2002, 34, 191-209.	2.1	10
25	Strongly asymptotically optimal design and control of production and service systems. IIE Transactions, 2000, 32, 881-890.	2.1	8
26	Strongly asymptotically optimal design and control of production and service systems. IIE Transactions, 2000, 32, 881-890.	2.1	3
27	COMBINED PRODUCTION AND MAINTENANCE SCHEDULING FOR A MULTIPLE-PRODUCT, SINGLE-MACHINE PRODUCTION SYSTEM. Production and Operations Management, 2000, 9, 379-399.	2.1	79
28	Call Centers in Financial Services: Strategies, Technologies, and Operations. , 2000, , 357-388.		20
29	Stochastic Convexity on General Space. Mathematics of Operations Research, 1999, 24, 472-494.	0.8	23
30	Comparing the Variability of Random Variables and Point Processes. Probability in the Engineering and Informational Sciences, 1998, 12, 425-444.	0.6	17
31	Two Variability Orders. Probability in the Engineering and Informational Sciences, 1998, 12, 1-23.	0.6	106
32	Two Extremal Autocorrelated Arrival Processes. Probability in the Engineering and Informational Sciences, 1997, 11, 441-450.	0.6	3
33	Dynamic Modelling of Discrete Time Reliability Systems. , 1996, , 83-96.		0
34	Discrete hazard rate functions. Computers and Operations Research, 1995, 22, 391-402.	2.4	56
35	Hazard rate ordering of k-out-of-n systems. Statistics and Probability Letters, 1995, 23, 1-8.	0.4	9
36	Bounds for Stopping Times with Application to the Approximation of Distribution Functions. Probability in the Engineering and Informational Sciences, 1994, 8, 21-31.	0.6	0

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37	Fluid limits and diffusion approximations for networks of multi-server queues in heavy traffic. Discrete Event Dynamic Systems: Theory and Applications, 1994, 4, 269-291.	0.6	28
38	Convexity of single stage queueing systems with bulk arrival. Queueing Systems, 1994, 16, 287-299.	0.6	2
39	Bounding the performance of tandem queues with finite buffer spaces. Annals of Operations Research, 1994, 48, 185-195.	2.6	6
40	Jackson Network Models of Manufacturing Systems. , 1994, , 1-45.		77
41	Stochastic Convexity and Stochastic Majorization. , 1994, , 189-231.		12
42	Some Pitfalls of Black Box Queue Inference: The Case of State-Dependent Server Queues. Probability in the Engineering and Informational Sciences, 1993, 7, 149-157.	0.6	7
43	Regularity of Stochastic Processes: A Theory Based on Directional Convexity. Probability in the Engineering and Informational Sciences, 1993, 7, 343-360.	0.6	71
44	Dynamic conditional marginal distributions in reliability theory. Journal of Applied Probability, 1993, 30, 421-428.	0.4	8
45	Dynamic conditional marginal distributions in reliability theory. Journal of Applied Probability, 1993, 30, 421-428.	0.4	2
46	Multivariate Conditional Hazard Rate and Mean Residual Life Functions and Their Applications. , 1993, , 137-155.		1
47	Extremal properties of the FIFO discipline in queueing networks. Journal of Applied Probability, 1992, 29, 967-978.	0.4	23
48	Multiclass Queueing Systems: Polymatroidal Structure and Optimal Scheduling Control. Operations Research, 1992, 40, S293-S299.	1.2	127
49	Spatiotemporal Convexity of Stochastic Processes and Applications. Probability in the Engineering and Informational Sciences, 1992, 6, 1-16.	0.6	19
50	On Optimal Arrangement of Stations in a Tandem Queueing System with Blocking. Management Science, 1992, 38, 137-153.	2.4	45
51	Optimal allocation of resources to nodes of parallel and series systems. Advances in Applied Probability, 1992, 24, 894-914.	0.4	68
52	Extension of the bivariate characterization for stochastic orders. Advances in Applied Probability, 1992, 24, 506-508.	0.4	17
53	Extremal properties of the FIFO discipline in queueing networks. Journal of Applied Probability, 1992, 29, 967-978.	0.4	25
54	Optimal allocation of resources to nodes of parallel and series systems. Advances in Applied Probability, 1992, 24, 894-914.	0.4	53

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55	Optimal Dynamic Assignment of Customers to Heterogeneous Servers in Parallel. Operations Research, 1992, 40, 1126-1138.	1.2	29
56	Allocation through stochastic Schur convexity and stochastic transposition increasingness. Lecture Notes-monograph Series / Institute of Mathematical Statistics, 1992, 22, 253-273.	1.0	9
57	Design of manufacturing systems using queueing models. Queueing Systems, 1992, 12, 135-213.	0.6	87
58	A GENERAL APPROACH FOR COORDINATING PRODUCTION IN MULTIPLE-CELL MANUFACTURING SYSTEMS. Production and Operations Management, 1992, 1, 34-52.	2.1	87
59	On the starshapeness of G/G/c queueing systems. Advances in Applied Probability, 1991, 23, 431-435.	0.4	2
60	Bivariate characterization of some stochastic order relations. Advances in Applied Probability, 1991, 23, 642-659.	0.4	114
61	On the starshapeness of G/G/c queueing systems. Advances in Applied Probability, 1991, 23, 431-435.	0.4	1
62	A conservation law for single-server queues and its applications. Journal of Applied Probability, 1991, 28, 198-209.	0.4	3
63	Strong stochastic convexity: closure properties and applications. Journal of Applied Probability, 1991, 28, 131-145.	0.4	9
64	Dynamic multivariate mean residual life functions. Journal of Applied Probability, 1991, 28, 613-629.	0.4	3
65	Dynamic multivariate mean residual life functions. Journal of Applied Probability, 1991, 28, 613-629.	0.4	27
66	Bivariate characterization of some stochastic order relations. Advances in Applied Probability, 1991, 23, 642-659.	0.4	74
67	Structural properties and stochastic bounds for a buffer problem in packetized voice transmission. Queueing Systems, 1991, 8, 225-236.	0.6	3
68	Monotonicity of the Loss Probabilities of Single Server Finite Queues with Respect to Convex Order of Arrival or Service Processes. Probability in the Engineering and Informational Sciences, 1991, 5, 43-52.	0.6	15
69	Strong stochastic convexity: closure properties and applications. Journal of Applied Probability, 1991, 28, 131-145.	0.4	50
70	Regular, sample path and strong stochastic convexity: a review. Lecture Notes-monograph Series / Institute of Mathematical Statistics, 1991, , 320-333.	1.0	3
71	On uniform conditional stochastic order conditioned on planar regions. Journal of Applied Probability, 1990, 27, 115-123.	0.4	1
72	Concavity of the throughput of tandem queueing systems with finite buffer storage space. Advances in Applied Probability, 1990, 22, 764-767.	0.4	11

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73	Convex separable optimization is not much harder than linear optimization. Journal of the ACM, 1990, 37, 843-862.	1.8	193
74	Parametric stochastic convexity and concavity of stochastic processes. Annals of the Institute of Statistical Mathematics, 1990, 42, 509-531.	0.5	70
75	Convexity of a set of stochastically ordered random variables. Advances in Applied Probability, 1990, 22, 160-177.	0.4	10
76	On uniform conditional stochastic order conditioned on planar regions. Journal of Applied Probability, 1990, 27, 115-123.	0.4	1
77	On extremal service disciplines in single-stage queueing systems. Journal of Applied Probability, 1990, 27, 409-416.	0.4	7
78	Multivariate Stochastic Orderings and Positive Dependence in Reliability Theory. Mathematics of Operations Research, 1990, 15, 545-552.	0.8	41
79	On extremal service disciplines in single-stage queueing systems. Journal of Applied Probability, 1990, 27, 409-416.	0.4	53
80	Chapter 13 Reliability and maintainability. Handbooks in Operations Research and Management Science, 1990, 2, 653-713.	0.6	16
81	Concavity of the throughput of tandem queueing systems with finite buffer storage space. Advances in Applied Probability, 1990, 22, 764-767.	0.4	55
82	Convexity of a set of stochastically ordered random variables. Advances in Applied Probability, 1990, 22, 160-177.	0.4	22
83	Stochastic monotonicity in general queueing networks. Journal of Applied Probability, 1989, 26, 413-417.	0.4	1
84	Scheduling Multiclass Single Server Queueing Systems to Stochastically Maximize the Number of Successful Departures. Probability in the Engineering and Informational Sciences, 1989, 3, 323-333.	0.6	93
85	Some Replacement Policies in a Random Environment. Probability in the Engineering and Informational Sciences, 1989, 3, 117-134.	0.6	30
86	Determination of Optimal Buffer Storage Capacities and Optimal Allocation in Multistage Automatic Transfer Lines. IIE Transactions, 1989, 21, 130-135.	2.1	72
87	Stochastic monotonicity in general queueing networks. Journal of Applied Probability, 1989, 26, 413-417.	0.4	42
88	Allocating a joint setup in a multi-cell system. Annals of Operations Research, 1988, 15, 155-167.	2.6	3
89	An age-dependent counting process generated from a renewal process. Advances in Applied Probability, 1988, 20, 739-755.	0.4	6
90	Stochastic convexity and its applications. Advances in Applied Probability, 1988, 20, 427-446.	0.4	128

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91	On Stochastic Decomposition in $M/G/1$ Type Queues with Generalized Server Vacations. Operations Research, 1988, 36, 566-569.	1.2	117
92	Multivariate conditional hazard rates and the MIFRA and MIFR properties. Journal of Applied Probability, 1988, 25, 150-168.	0.4	19
93	Second-Order Properties of the Throughput of a Closed Queueing Network. Mathematics of Operations Research, 1988, 13, 524-534.	0.8	64
94	On the First Failure Time of Dependent Multicomponent Reliability Systems. Mathematics of Operations Research, 1988, 13, 50-64.	0.8	9
95	On Server Allocation in Multiple Center Manufacturing Systems. Operations Research, 1988, 36, 333-342.	1.2	88
96	DFR Property of First-Passage Times and its Preservation Under Geometric Compounding. Annals of Probability, 1988, 16, 397.	0.8	79
97	On the first-passage times of pure jump processes. Journal of Applied Probability, 1988, 25, 501-509.	0.4	34
98	On the first-passage times of pure jump processes. Journal of Applied Probability, 1988, 25, 501-509.	0.4	13
99	An age-dependent counting process generated from a renewal process. Advances in Applied Probability, 1988, 20, 739-755.	0.4	5
100	Stochastic convexity and its applications. Advances in Applied Probability, 1988, 20, 427-446.	0.4	53
101	Multivariate conditional hazard rates and the MIFRA and MIFR properties. Journal of Applied Probability, 1988, 25, 150-168.	0.4	13
102	Convex ordering of sojourn times in single-server queues: extremal properties of FIFO and LIFO service disciplines. Journal of Applied Probability, 1987, 24, 737-748.	0.4	32
103	Optimal Server Allocation in a System of Multi-Server Stations. Management Science, 1987, 33, 1173-1180.	2.4	114
104	Optimal Group Maintenance Policies with Continuous and Periodic Inspections. Management Science, 1987, 33, 1440-1452.	2.4	67
105	Stochastic Monotonicity of the Queue Lengths in Closed Queueing Networks. Operations Research, 1987, 35, 583-588.	1.2	43
106	An Approximate Model of Multistage Automatic Transfer Lines with Possible Scrapping Of Workpieces. IIE Transactions, 1987, 19, 252-265.	2.1	32
107	On stochastic comparison of random vectors. Journal of Applied Probability, 1987, 24, 123-136.	0.4	20
108	Stochastic majorization of random variables by proportional equilibrium rates. Advances in Applied Probability, 1987, 19, 854-872.	0.4	38

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109	Multivariate hazard rates and stochastic ordering. <i>Advances in Applied Probability</i> , 1987, 19, 123-137.	0.4	33
110	Convex ordering of sojourn times in single-server queues: extremal properties of FIFO and LIFO service disciplines. <i>Journal of Applied Probability</i> , 1987, 24, 737-748.	0.4	24
111	On stochastic comparison of random vectors. <i>Journal of Applied Probability</i> , 1987, 24, 123-136.	0.4	15
112	Stochastic majorization of random variables by proportional equilibrium rates. <i>Advances in Applied Probability</i> , 1987, 19, 854-872.	0.4	16
113	The multivariate hazard construction. <i>Stochastic Processes and Their Applications</i> , 1987, 24, 241-258.	0.4	58
114	Comparing ordered-entry queues with heterogeneous servers. <i>Queueing Systems</i> , 1987, 2, 235-244.	0.6	16
115	The effect of increasing service rates in a closed queueing network. <i>Journal of Applied Probability</i> , 1986, 23, 474-483.	0.4	13
116	Uniformization and Hybrid Simulation/Analytic Models of Renewal Processes. <i>Operations Research</i> , 1986, 34, 573-580.	1.2	46
117	Multivariate Imperfect Repair. <i>Operations Research</i> , 1986, 34, 437-448.	1.2	99
118	The total hazard construction, antithetic variates and simulation of stochastic systems. <i>Stochastic Models</i> , 1986, 2, 237-249.	0.3	10
119	Bounds for the system reliability function. <i>Stochastic Models</i> , 1986, 2, 151-159.	0.3	2
120	The effect of increasing service rates in a closed queueing network. <i>Journal of Applied Probability</i> , 1986, 23, 474-483.	0.4	59
121	A class of correlated cumulative shock models. <i>Advances in Applied Probability</i> , 1985, 17, 347-366.	0.4	75
122	Robust Asset Allocation with Benchmarked Objectives. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
123	Robust Multi-Product Pricing. <i>SSRN Electronic Journal</i> , 0, , .	0.4	16