Chris P Tsokos

List of Publications by Year
in descending order

125 papers	924 citations	623734 14 h-index	552781 26 g-index
126 all docs	126 docs citations	126 times ranked	547 citing authors

#	Article	IF	Citations
1	On the transmuted extreme value distribution with application. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e1401-e1407.	1.1	87
2	Dynamically Weighted Balanced Loss: Class Imbalanced Learning and Confidence Calibration of Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2940-2951.	11.3	72
3	On a stochastic integral equation of the Volterra type. Mathematical Systems Theory, 1969, 3, 222-231.	0.5	58
4	Changes in coral reef communities among the Florida Keys, 1996â€“2003. Coral Reefs, 2008, 27, 951-965.	2.2	55
5	Developments in Nonparametric Density Estimation. International Statistical Review, 1980, 48, 267.	1.9	51
6	Estimation of the three parameter Weibull probability distribution. Mathematics and Computers in Simulation, 1995, 39, 173-185.	4.4	28
7	A Random Differential Equation Approach to the Probability Distribution of Bod and Do in Streams. SIAM Journal on Applied Mathematics, 1977, 32, 467-483.	1.8	26
8	Existence of a Solution of a Stochastic Integral Equation in Turbulence Theory. Journal of Mathematical Physics, 1971, 12, 210-212.	1.1	25
9	Parameter estimation of the Weibull probability distribution. Mathematics and Computers in Simulation, 1994, 37, 47-55.	4.4	25
10	On a semi-stochastic model arising in a biological system. Mathematical Biosciences, 1970, 9, 105-117.	1.9	24
11	Random eye state change detection in real-time using EEG signals. Expert Systems With Applications, 2017, 72, 42-48.	7.6	22
12	A stochastic model for chemotherapy: computer simulation. Mathematical Biosciences, 1970, 9, 119-133.	1.9	18
13	Automatic object detection using dynamic time warping on ground penetrating radar signals. Expert Systems With Applications, 2019, 122, 102-107.	7.6	18
14	Integro-differential equations of Volterra type. Bulletin of the Australian Mathematical Society, 1970, 3, 9-22.	0.5	14
15	The method of V. M. Popov for differential systems with random parameters. Journal of Applied Probability, 1971, 8, 298-310.	0.7	14
16	A Weighted Moving Average Process for Forecasting. Journal of Modern Applied Statistical Methods, 2008, 7, 187-197.	0.2	12
17	On a Stochastic Integro-Differential Equation of Volterra Type. SIAM Journal on Applied Mathematics, 1972, 23, 499-512.	1.8	11
18	On a stochastic integral equation of the fredholm type. Zeitschrift FÃ¼r Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1972, 23, 22-31.	0.8	11

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19	A stochastic bivariate ecology model for competing species. Mathematical Biosciences, 1973, 16, 191-208.	1.9	11
20	On the existence, uniqueness, and stability behavior of a random solution to a nonlinear perturbed stochastic integro-differential equation. Information and Control, 1975, 27, 61-74.	1.1	11
21	Estimation of failure intensity for the Weibull process. Reliability Engineering and System Safety, 1994, 45, 271-275.	8.9	11
22	On the classical stability theorem of PoincarÃ©- Lyapunov with a random parameter. Proceedings of the Japan Academy Series A: Mathematical Sciences, 1969, 45, .	0.4	11
23	On the definition of a stochastic differential game. Mathematical Systems Theory, 1970, 4, 60-64.	0.5	10
24	A new stochastic formulation of a population growth problem. Mathematical Biosciences, 1973, 17, 105-120.	1.9	10
25	The Asymptotic Distribution of Maxima in Bivariate Samples. Journal of the American Statistical Association, 1973, 68, 734-739.	3.1	10
26	On the Existence and Uniqueness of a Random Solution to a Perturbed Random Integral Equation of the Fredholm Type. SIAM Journal on Applied Mathematics, 1972, 22, 194-208.	1.8	9
27	The effect of loss functions on empirical Bayes reliability analysis. Mathematical Problems in Engineering, 1999, 4, 539-560.	1.1	9
28	Stochastic Differential Games. Theory and Applications. Atlantis Studies in Probability and Statistics, 2012, , .	0.7	9
29	Common spatial pattern method for realâ€time eye state identification by using electroencephalogram signals. IET Signal Processing, 2017, 11, 936-941.	1.5	9
30	Ordinary, Bayes, empirical Bayes, and non-parametric reliability analysis for the modified Gumbel failure model. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e1426-e1436.	1.1	8
31	A random Fredholm integral equation. Proceedings of the American Mathematical Society, 1972, 33, 534-534.	0.8	8
32	Bandwidth selection procedures tor kernel density estimates. Communications in Statistics - Theory and Methods, 1982, 11, 1045-1069.	1.0	7
33	Parametric Analysis of Carbon Dioxide in the Atmosphere. Journal of Applied Sciences, 2010, 10, 440-450.	0.3	7
34	Stochastic Integral Equations in Life Sciences and Engineering. International Statistical Review, 1973, 41, 15.	1.9	6
35	Bayes discrimination with mean square error loss. Pattern Recognition, 1978, 10, 113-123.	8.1	6
36	Optimal tactics for close support operations: Part I, degraded communications. Journal of Optimization Theory and Applications, 1980, 30, 89-98.	1.5	6

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37	A linear stochastic model for phytoplankton production in a marine ecosystem. Ecological Modelling, 1980, 10, 1-12.	2.5	6
38	Family size order statistics in branching processes with immigration. Stochastic Analysis and Applications, 2000, 18, 655-670.	1.5	6
39	SENSITIVITY OF THE BAYESIAN RELIABILITY ESTIMATES FOR THE MODIFIED GUMBEL FAILURE MODEL. International Journal of Reliability, Quality and Safety Engineering, 2009, 16, 331-341.	0.6	6
40	Modeling carbon dioxide emissions with a system of differential equations. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e1182-e1197.	1.1	6
41	Improved parameter estimation of Time Dependent Kernel Density by using Artificial Neural Networks. Journal of Finance and Data Science, 2018, 4, 172-182.	3.2	6
42	The origins and applications of stochastic integral equations. International Journal of Systems Science, 1971, 2, 135-148.	5.5	5
43	On a random solution of a nonlinear perturbed stochastic integral equation of the Volterra type. Bulletin of the Australian Mathematical Society, 1973, 9, 227-237.	0.5	5
44	A study of the effect of the loss function on Bayes estimates of failure intensity, MTBF, and reliability. Applied Mathematics and Computation, 1980, 6, 145-166.	2.2	5
45	An information measure of association in contingency tables. Information and Control, 1971, 19, 174-179.	1.1	4
46	A stochastic model for chemical equilibrium. Mathematical Biosciences, 1974, 21, 85-102.	1.9	4
47	On the existence of a random solution to a nonlinear perturbed stochastic integral equation. Annals of the Institute of Statistical Mathematics, 1976, 28, 99-109.	0.8	4
48	Bayes Estimation of Reliability Using an Estimated Prior Distribution. Operations Research, 1979, 27, 1142-1157.	1.9	4
49	Simulation of a nonlinear stochastic ecology model. Applied Mathematics and Computation, 1980, 7, 9-25.	2.2	4
50	On the convergence of kernel estimators of probability density functions. Annals of the Institute of Statistical Mathematics, 1981, 33, 233-246.	0.8	4
51	Decisionâ€"theoretic estimation of the offspring mean in mortal branching processes. Stochastic Models, 1999, 15, 889-902.	0.3	4
52	Reliability Models Using the Composite Generalizers of Weibull Distribution. Annals of Data Science, 2019, 6, 807-829.	3.2	4
53	Realâ€time object detection using power spectral density of groundâ€penetrating radar data. Structural Control and Health Monitoring, 2019, 26, e2354.	4.0	4
54	Machine Learning Approach to Predict Computer Operating Systems Vulnerabilities. , 2020, , .		4

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55	On the Uryson type of stochastic integral equations. Mathematical Proceedings of the Cambridge Philosophical Society, 1974, 76, 297-305.	0.4	3
56	Some markovian measures in an organizational manpower planning model. Systems Research and Behavioral Science, 1981, 26, 130-135.	0.2	3
57	Statistical analysis and modeling of precipitation data. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e1169-e1177.	1.1	3
58	Bayesian age-stratified joinpoint regression model: an application to lung and brain cancer mortality. Journal of Applied Statistics, 2014, 41, 2727-2742.	1.3	3
59	Two Artificial Neural Networks for Modeling Discrete Survival Time of Censored Data. Advances in Artificial Intelligence, 2015, 2015, 1-7.	0.9	3
60	Forecasting Age-Specific Brain Cancer Mortality Rates Using Functional Data Analysis Models. Advances in Epidemiology, 2015, 2015, 1-11.	0.6	3
61	Differential equation model of carbon dioxide emission using functional linear regression. Journal of Applied Statistics, 2019, 46, 1246-1259.	1.3	3
62	An Analytical Approach to Assess and Compare the Vulnerability Risk of Operating Systems. International Journal of Computer Network and Information Security, 2020, 12, 1-10.	1.9	3
63	A Statistical Study of Serum Cholesterol Level by Gender and Race. Journal of Research in Health Sciences, 2017, 17, e00386.	1.0	3
64	On the stability and boundedness of differential systems in Banach spaces. Mathematical Proceedings of the Cambridge Philosophical Society, 1969, 65, 507-512.	0.4	2
65	Distributed-parameter systems with time-delay. Information and Control, 1971, 19, 1-9.	1.1	2
66	Stochastic asymptotic exponential stability of stochastic integral equations. Journal of Applied Probability, 1972, 9, 169-177.	0.7	2
67	An empirical bayes approach to point estimation in adaptive control. Information and Control, 1972, 20, 263-275.	1.1	2
68	A stochastic system for communicable diseases. International Journal of Systems Science, 1974, 5, 503-509.	5.5	2
69	On a Class of Nonlinear Stochastic Integral Equations. Mathematische Nachrichten, 1974, 60, 71-78.	0.8	2
70	A stochastic model for chemical kinetics. Acta Biotheoretica, 1974, 23, 18-34.	1.5	2
71	Existence and stability behavior of random solutions of a system of nonlinear random equations. Information Sciences, 1975, 9, 299-313.	6.9	2
72	Nonparametric detection scheme for myocardial infarction. Journal of Medical Systems, 1978, 2, 203-212.	3.6	2

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73	On the existence of random solutions of a non-linear perturbed random integral equation. International Journal of Systems Science, 1978, 9, 483-491.	5.5	2
74	Robustness of the Bayes optimal discriminant procedure with 0-1 loss. Applied Mathematics and Computation, 1979, 5, 131-148.	2.2	2
75	An analysis of the influence of age and school-attendance status on the spread of variola minor. Journal of Theoretical Biology, 1979, 76, 157-165.	1.7	2
76	Best efficient estimates of the intensity function of the power law process. Journal of Applied Statistics, 1998, 25, 111-120.	1.3	2
77	Statistical Modeling of a Pharmacokinetic System. Stochastic Analysis and Applications, 2006, 24, 1061-1081.	1.5	2
78	Statistical analysis and modeling of coral reef habitats. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e1360-e1369.	1.1	2
79	A new forecasting model for nonstationary environmental data. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e1209-e1214.	1.1	2
80	A Weighted Moving Average Process for Forcasting. Journal of Modern Applied Statistical Methods, 2007, 6, 619-629.	0.2	2
81	Non-homogenous Poisson Process for Evaluating Stage I & II Ductal Breast Cancer Treatment. Journal of Modern Applied Statistical Methods, 2011, 10, 646-655.	0.2	2
82	Ordinary and Bayesian Approach to Life Testing Using the Extreme Value Distribution. Series on Quality, Reliability and Engineering Statistics, 1998, , 379-395.	0.2	2
83	Eventual Uniform Asymptotic Stability of Control Systems. Mathematische Nachrichten, 1971, 48, 43-47.	0.8	1
84	Stochastic Approximation of a Random Integral Equation. Mathematische Nachrichten, 1971, 51, 101-110.	0.8	1
85	A stochastic model for metabolizing systems with computer simulation. Journal of Statistical Physics, 1973, 8, 79-101.	1.2	1
86	Existence theory for nonlinear random integral equations using the Banach-Steinhaus theorem. Mathematische Nachrichten, 1974, 63, 311-316.	0.8	1
87	Existence theory for a stochastic differential equation. International Journal of Systems Science, 1974, 5, 615-621.	5.5	1
88	A nonparametric classification scheme with mean squared error criterion. Pattern Recognition, 1978, 10, 47-53.	8.1	1
89	Statistical properties of a linear stochastic system. Information and Control, 1978, 39, 92-117.	1.1	1
90	Population-dynamics models and a sequential test in the analysis of the influence of household setting on the spread of Variola minor. Journal of Theoretical Biology, 1980, 82, 91-103.	1.7	1

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91	A kinetic study of cell radiosensitivity. International Journal of Bio-medical Computing, 1982, 13, 127-152.	0.5	1
92	On the validity of the Mantel Ï‡2extension and otherÏ‡2tests in biological studies with low incidence rates. Stochastic Analysis and Applications, 1987, 5, 335-352.	1.5	1
93	Nonparametric reliability modeling for parallel systems. Stochastic Analysis and Applications, 2002, 20, 185-197.	1.5	1
94	A new method for obtaining a more effective estimation of atmospheric temperature in the contiguous United States. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e1153-e1159.	1.1	1
95	BAYESIAN RELIABILITY APPROACH TO THE POWER LAW PROCESS WITH SENSITIVITY ANALYSIS TO PRIOR SELECTION. International Journal of Reliability, Quality and Safety Engineering, 2013, 20, 1350004.	0.6	1
96	Bayesian Joinpoint Regression Model for Childhood Brain Cancer Mortality. Journal of Modern Applied Statistical Methods, 2013, 12, 358-370.	0.2	1
97	Generating and Comparing Aggregate Variables for Use Across Datasets in Multilevel Analysis. Journal of Modern Applied Statistical Methods, 2009, 8, 626-631.	0.2	1
98	Identify Attributable Variables and Interactions in Breast Cancer. Journal of Applied Sciences, 2011, 11, 1033-1038.	0.3	1
99	The method of V. M. Popov for differential systems with random parameters. Journal of Applied Probability, 1971, 8, 298-310.	0.7	0
100	L_pstability of a non-linear stochastic control system. International Journal of Systems Science, 1972, 3, 215-223.	5.5	0
101	Formal solutions for a class of stochastic linear persuit-evasion games with perfect information. International Journal of Systems Science, 1972, 2, 395-400.	5.5	0
102	STOCHASTIC ASYMPTOTIC STABILITY AND APPROXIMATION OF THE RANDOM SOLUTION OF A STOCHASTIC DISCRETE FREDHOLM SYSTEM. Kybernetes, 1973, 2, 239-251.	2.2	0
103	EXISTENCE THEORY FOR STOCHASTIC OPTIMAL CONTROL SYSTEMS. Kybernetes, 1975, 4, 143-148.	2.2	0
104	Stochastic processes in particle-number fluctuations in an electron-photon shower. Acta Biotheoretica, 1975, 24, 58-74.	1.5	0
105	Excerpts from a letter by C. Tsokos to D. Perkel. Mathematical Biosciences, 1975, 24, 353-354.	1.9	0
106	On the solution of a general stochastic linear pursuit-evasion game. International Journal of Systems Science, 1976, 7, 811-819.	5.5	0
107	STOCHASTIC CONTROL SYSTEMS AND TARGET FUNCTION. Kybernetes, 1976, 5, 83-90.	2.2	0
108	On approximating the expected behavior of stochastic epidemiological models applicable to small populations. Applied Mathematics and Computation, 1976, 2, 95-111.	2.2	0

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109	STOCHASTIC ECOLOGY MODELS FOR TWO INTERACTING POPULATIONS. Kybernetes, 1978, 7, 201-214.	2.2	0
110	On the study of two interacting populations one of which acts independently of the other. The Bulletin of Mathematical Biophysics, 1979, 41, 725-735.	0.5	0
111	Sequential analysis of the influence of sex on the spread of the disease variola minor. Journal of Theoretical Biology, 1981, 89, 341-351.	1.7	0
112	A heuristic method for estimating time-series models for forecasting. I. Applied Mathematics and Computation, 1985, 16, 265-275.	2.2	0
113	Forecasting models: a comparison of several adaptive forecasting procedures. Stochastic Analysis and Applications, 1985, 3, 285-313.	1.5	0
114	Stochastic models for forecasting. Mathematics and Computers in Simulation, 1987, 29, 291-311.	4.4	0
115	Maximum likelihood estimators for bivariate distributions with monotone failure rates. Stochastic Analysis and Applications, 1991, 9, 483-494.	1.5	0
116	Bayesian Quantiles of Extremes. Journal of Statistical Theory and Practice, 2012, 6, 566-579.	0.5	0
117	Cybersecurity: a predictive analytical model for software vulnerability discovery process. Journal of Cyber Security Technology, 2021, 5, 41-69.	2.9	0
118	Bayesian Reliability Modeling Using Monte Carlo Integration. Journal of Modern Applied Statistical Methods, 2005, 4, 172-186.	0.2	0
119	Application of the Truncated Skew Laplace Probability Distribution in Maintenance System. Journal of Modern Applied Statistical Methods, 2009, 8, 409-422.	0.2	0
120	Predicting Survival Time of Localized Melanoma Patients Using Discrete Survival Time Method. Journal of Modern Applied Statistical Methods, 2014, 13, 140-156.	0.2	0
121	Regularized Neural Network to Identify Potential Breast Cancer: A Bayesian Approach. Journal of Modern Applied Statistical Methods, 2016, 15, 563-579.	0.2	0
122	Real-time anomaly detection using dynamic time warping of GPR signals. , 2019, , .		0
123	ON SOME STOCHASTIC DIFFERENTIAL GAMES. , 1973, , 277-336.		0
124	A Stochastic Approach in Modeling of Regional Atmospheric CO2 in the United States. Journal of Statistical Theory and Applications, 2020, 19, 10.	0.9	0
125	A modern approach of survival analysis of patients with pancreatic cancer. American Journal of Cancer Research, 2021, 11, 4725-4745.	1.4	0