

Andr s Horv th

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

1,203
citations

471061

17
h-index

433756

31
g-index

76
all docs

76
docs citations

76
times ranked

720
citing authors

#	ARTICLE	IF	CITATIONS
1	Matching Three Moments with Minimal Acyclic Phase Type Distributions. Stochastic Models, 2005, 21, 303-326.	0.3	129
2	Acyclic discrete phase type distributions: properties and a parameter estimation algorithm. Performance Evaluation, 2003, 54, 1-32.	0.9	109
3	PhFit: A General Phase-Type Fitting Tool. Lecture Notes in Computer Science, 2002, , 82-91.	1.0	104
4	Transient analysis of non-Markovian models using stochastic state classes. Performance Evaluation, 2012, 69, 315-335.	0.9	70
5	Fluid Stochastic Petri Nets Augmented with Flush-out Arcs: Modelling and Analysis. Discrete Event Dynamic Systems: Theory and Applications, 2001, 11, 97-117.	0.6	55
6	A one-step method for quantitative determination of uracil in DNA by real-time PCR. Nucleic Acids Research, 2010, 38, e196-e196.	6.5	35
7	The scale factor: a new degree of freedom in phase-type approximation. Performance Evaluation, 2004, 56, 121-144.	0.9	34
8	Matching More Than Three Moments with Acyclic Phase Type Distributions. Stochastic Models, 2007, 23, 167-194.	0.3	34
9	Implementing compositionality for stochastic Petri nets. International Journal on Software Tools for Technology Transfer, 2001, 3, 417-430.	1.7	30
10	Moment characterization of matrix exponential and Markovian arrival processes. Annals of Operations Research, 2008, 160, 51-68.	2.6	27
11	A joint moments based analysis of networks of MAP/MAP/1 queues. Performance Evaluation, 2010, 67, 759-778.	0.9	27
12	Probabilistic Model Checking of Regenerative Concurrent Systems. IEEE Transactions on Software Engineering, 2016, 42, 153-169.	4.3	27
13	Markovian Modeling of Real Data Traffic: Heuristic Phase Type and MAP Fitting of Heavy Tailed and Fractal Like Samples. Lecture Notes in Computer Science, 2002, , 405-434.	1.0	26
14	Modeling software systems with rejuvenation, restoration and checkpointing through fluid stochastic Petri nets. , 0, , .		24
15	PhFit: a general phase-type fitting tool. , 0, , .		23
16	Moments of accumulated reward and completion time in Markovian models with application to unreliable manufacturing systems. Performance Evaluation, 2014, 75-76, 69-88.	0.9	23
17	Analysis of inhomogeneous Markov reward models. Linear Algebra and Its Applications, 2004, 386, 383-405.	0.4	22
18	Building a cooperative P2P-TV application over a wise network: the approach of the European FP-7 strep NAPA-WINE. , 2008, 46, 20-22.		22

#	ARTICLE	IF	CITATIONS
19	Transient analysis of Age-MRSPNs by the method of supplementary variables. Performance Evaluation, 2001, 45, 205-221.	0.9	20
20	Fluid Petri Nets and hybrid model-checking: a comparative case study. Reliability Engineering and System Safety, 2003, 81, 239-257.	5.1	20
21	A traffic based decomposition of two-class queueing networks with priority service. Computer Networks, 2009, 53, 1235-1248.	3.2	20
22	Production quality performance in manufacturing systems processing deteriorating products. CIRP Annals - Manufacturing Technology, 2015, 64, 431-434.	1.7	19
23	Analysis and Evaluation of Non-Markovian Stochastic Petri Nets. Lecture Notes in Computer Science, 2000, , 171-187.	1.0	18
24	Fluid stochastic Petri nets augmented with flush-out arcs: a transient analysis technique. IEEE Transactions on Software Engineering, 2002, 28, 944-955.	4.3	16
25	Simplification of a complex signal transduction model using invariants and flow equivalent servers. Theoretical Computer Science, 2011, 412, 6036-6057.	0.5	15
26	Approximate analysis of biological systems by hybrid switching jump diffusion. Theoretical Computer Science, 2015, 587, 49-72.	0.5	15
27	Supplementary variable approach applied to the transient analysis of age-MRSPNs. , 0, , .		14
28	On the Use of Stochastic Petri Nets in the Analysis of Signal Transduction Pathways for Angiogenesis Process. Lecture Notes in Computer Science, 2009, , 281-295.	1.0	14
29	Transient Analysis of Networks of Stochastic Timed Automata Using Stochastic State Classes. Lecture Notes in Computer Science, 2013, , 355-371.	1.0	14
30	On moments based Padé approximations of ruin probabilities. Journal of Computational and Applied Mathematics, 2011, 235, 3215-3228.	1.1	13
31	A Joint Moments Based Analysis of Networks of MAP/MAP/1 Queues. , 2008, , .		12
32	A review of the deterministic and diffusion approximations for stochastic chemical reaction networks. Reaction Kinetics, Mechanisms and Catalysis, 2018, 123, 289-312.	0.8	12
33	Nikolâ€™skii Inequality Between the Uniform Norm and Integral Norm with Bessel Weight for Entire Functions of Exponential Type on the Half-Line. Analysis Mathematica, 2018, 44, 21-42.	0.2	12
34	Compositional fluid stochastic Petri net model for operational software system performance. , 2008, , .		11
35	Analysis of Petri Net Models through Stochastic Differential Equations. Lecture Notes in Computer Science, 2014, , 273-293.	1.0	10
36	Parameter Estimation of Kinetic Rates in Stochastic Reaction Networks by the EM Method. , 2008, , .		7

#	ARTICLE	IF	CITATIONS
37	Aggregated Stochastic State Classes in Quantitative Evaluation of non-Markovian Stochastic Petri Nets. , 2009, , .		7
38	Petri Nets with Discrete Phase Type Timing. Electronic Notes in Theoretical Computer Science, 2002, 52, 209-226.	0.9	6
39	Lead time distribution in unreliable production lines processing perishable products. , 2014, , .		6
40	Analysis of the Lead Time Distribution in Closed Loop Manufacturing Systems. IFAC-PapersOnLine, 2016, 49, 307-312.	0.5	6
41	Lead-time-oriented production control policies in two-machine production lines. IISE Transactions, 2018, 50, 178-190.	1.6	6
42	Transient Analysis of Generalised Semi-Markov Processes Using Transient Stochastic State Classes. , 2010, , .		5
43	Product Form Approximation of Transient Probabilities in Stochastic Reaction Networks. Electronic Notes in Theoretical Computer Science, 2011, 277, 3-14.	0.9	5
44	Ruin probabilities by Pad��s method: simple moments based mixed exponential approximations (Renyi, De Tj ETQq0 0 0 rgBT /Ov European Actuarial Journal, 2019, 9, 273-299.	0.5	5
45	A Kronecker Algebra Formulation for Markov Activity Networks with Phase-Type Distributions. Mathematics, 2021, 9, 1404.	1.1	5
46	Model-Checking Based on Fluid Petri Nets for the Temperature Control System of the ICARO Co-generative Plant. Lecture Notes in Computer Science, 2002, , 273-283.	1.0	5
47	Moments Characterization of Order 3 Matrix Exponential Distributions. Lecture Notes in Computer Science, 2009, , 174-188.	1.0	5
48	Approximate Transient Analysis of Queuing Networks by Quasi Product Forms. Lecture Notes in Computer Science, 2013, , 22-36.	1.0	5
49	Approximate Transient Analysis of Queuing Networks by Decomposition based on Time-Inhomogeneous Markov Arrival Processes. , 2015, , .		5
50	The scale factor: a new degree of freedom in phase type approximation. , 0, , .		4
51	Time domain analysis of non-Markovian stochastic Petri nets with PRI transitions. IEEE Transactions on Software Engineering, 2002, 28, 933-943.	4.3	4
52	A Mean Field Based Methodology for Modeling Mobility in Ad Hoc Networks. , 2011, , .		4
53	Lung nodule volume measurement using digital chest tomosynthesis. , 2015, , .		4
54	Quasi Product Form Approximation for Markov Models of Reaction Networks. Lecture Notes in Computer Science, 2012, , 26-52.	1.0	4

#	ARTICLE	IF	CITATIONS
55	MATRIX GEOMETRIC SOLUTION OF FLUID STOCHASTIC PETRI NETS. , 2002, , .		4
56	Fluid stochastic Petri nets augmented with flush-out arcs: a transient analysis technique. , 0, , .		3
57	Compositional Model Checking of product-form CTMCs. Electronic Notes in Theoretical Computer Science, 2009, 250, 21-37.	0.9	3
58	Moments of Cumulated Output and Completion Time of Unreliable General Markovian Machines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11622-11627.	0.4	3
59	The Monte Carlo EM method for the parameter estimation of biological models. Electronic Notes in Theoretical Computer Science, 2011, 275, 23-36.	0.9	3
60	Zinc and copper in roof runoff. Water Science and Technology, 2013, 67, 1734-1739.	1.2	2
61	Constructing Matrix Exponential Distributions by Moments and Behavior around Zero. Mathematical Problems in Engineering, 2014, 2014, 1-13.	0.6	2
62	On the Padé and Laguerre-Tricomi Weeks Moments Based Approximations of the Scale Function W and of the Optimal Dividends Barrier for Spectrally Negative Lévy Risk Processes. Risks, 2019, 7, 121.	1.3	2
63	Model Checking Functional and Performability Properties of Stochastic Fluid Models. Electronic Notes in Theoretical Computer Science, 2005, 128, 295-310.	0.9	1
64	CSL Model Checking for Generalized Stochastic Petri Nets. , 2006, , .		1
65	Memory Efficient Calculation of Path Probabilities in Large Structured Markov Chains. , 2008, , .		1
66	Analysis of stochastic reaction networks with Markov reward models. , 2011, , .		1
67	Lead-time oriented production control policies in two-machine production lines. IFAC-PapersOnLine, 2015, 48, 2399-2404.	0.5	1
68	Analysis of Timed Properties Using the Jump-Diffusion Approximation. Lecture Notes in Computer Science, 2017, , 69-84.	1.0	1
69	Formal analysis of production line systems by probabilistic model checking tools. , 2021, , .		1
70	The scale factor: a new degree of freedom in phase-type approximation. Performance Evaluation, 2003, 56, 121-121.	0.9	0
71	Steady state solution for models with geometric and finite support activity duration. , 2005, , .		0
72	Use of Flow Equivalent Servers in the Transient Analysis of Product Form Queuing Networks. Lecture Notes in Computer Science, 2015, , 15-29.	1.0	0

#	ARTICLE	IF	CITATIONS
73	Introduction to the Special Section on Quantitative Evaluation of Systems (QEST 2018). ACM Transactions on Modeling and Performance Evaluation of Computing Systems, 2020, 5, 1-1.	0.8	0
74	Petri Nets Validation of Markovian Models of Emergency Department Arrivals. Lecture Notes in Computer Science, 2020, , 219-238.	1.0	0
75	Performance Analysis of Production Lines Through Statistical Model Checking. Lecture Notes in Computer Science, 2021, , 264-281.	1.0	0