Aniruddha Datta

List of Publications by Year
in descending order

93	1,345	361413	377865
papers	citations	20 h-index	34 g-index

96	96	96	888
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tissue specific expression of UMAMIT amino acid transporters in wheat. Scientific Reports, 2022, 12, 348.	3.3	4
2	Anti-tumor effects of cryptotanshinone (C19H20O3) in human osteosarcoma cell lines. Biomedicine and Pharmacotherapy, 2022, 150, 112993.	5.6	5
3	Integrative Network Modeling Highlights the Crucial Roles of Rho-GDI Signaling Pathway in the Progression of non-Small Cell Lung Cancer. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4785-4793.	6.3	3
4	Comprehensive live-cell imaging analysis of cryptotanshinone and synergistic drug-screening effects in various human and canine cancer cell lines. PLoS ONE, 2021, 16, e0236074.	2.5	1
5	Targeting oncogenic mutations in colorectal cancer using cryptotanshinone. PLoS ONE, 2021, 16, e0247190.	2.5	6
6	Drug target ranking for glioblastoma multiforme. BMC Biomedical Engineering, 2021, 3, 7.	2.6	5
7	Bayesian Network Analysis of Lysine Biosynthesis Pathway in Rice. Inventions, 2021, 6, 37.	2.5	6
8	Network modeling and inference of peroxisome proliferator-activated receptor pathway in high fat diet-linked obesity. Journal of Theoretical Biology, 2021, 519, 110647.	1.7	6
9	Fused Graphical Lasso Recovers Flowering Time Mutation Genes in Arabidopsis thaliana. Inventions, 2021, 6, 52.	2.5	2
10	Detecting drought regulators using stochastic inference in Bayesian networks. PLoS ONE, 2021, 16, e0255486.	2.5	5
11	In Silico Design and Experimental Validation of Combination Therapy for Pancreatic Cancer. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 17, 1010-1018.	3.0	12
12	Cryptotanshinone Induces Cell Death in Lung Cancer by Targeting Aberrant Feedback Loops. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2430-2438.	6.3	29
13	Integration of data analytics with cloud services for safer process systems, application examples and implementation challenges. Journal of Loss Prevention in the Process Industries, 2020, 68, 104316.	3.3	7
14	A data-driven alarm and event management framework. Journal of Loss Prevention in the Process Industries, 2019, 62, 103959.	3.3	22
15	Bayesian Inference Identifies Combination Therapeutic Targets in Breast Cancer. IEEE Transactions on Biomedical Engineering, 2019, 66, 2684-2692.	4.2	26
16	Bayesian modeling of plant drought resistance pathway. BMC Plant Biology, 2019, 19, 96.	3.6	11
17	A Gaussian Mixture-Model Exploiting Pathway Knowledge for Dissecting Cancer Heterogeneity. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 17, 1-1.	3.0	5
18	Emergence of DSS efforts in genomics: Past contributions and challenges. Decision Support Systems, 2019, 116, 77-90.	5.9	3

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19	Deep Sequencing Data Analysis. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 482-483.	3.0	1
20	A Bayesian approach to determine the composition of heterogeneous cancer tissue. BMC Bioinformatics, 2018, 19, 90.	2.6	5
21	Understanding the Bioinformatics Challenges of Integrating Genomics Into Healthcare. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1672-1683.	6.3	12
22	An in-silico study examining the induction of apoptosis by Cryptotanshinone in metastatic melanoma cell lines. BMC Cancer, 2018, 18, 855.	2.6	14
23	Fast and efficient genotype encoding using sparse 2D bitmaps for database-driven genomics applications. , 2018, , .		0
24	Simulating variance heterogeneity in quantitative genome wide association studies. BMC Bioinformatics, 2018, 19, 72.	2.6	6
25	A GPU-CPU heterogeneous algorithm for NGS read alignment. International Journal of Computational Biology and Drug Design, 2018, 11, 52.	0.3	0
26	Hypoxia Stress Response Pathways: Modeling and Targeted Therapy. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 875-885.	6.3	10
27	A Survey of Software and Hardware Approaches to Performing Read Alignment in Next Generation Sequencing. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 1202-1213.	3.0	9
28	Industrial alarm systems: Challenges and opportunities. Journal of Loss Prevention in the Process Industries, 2017, 50, 23-36.	3.3	101
29	Towards targeted combinatorial therapy design for the treatment of castration-resistant prostate cancer. BMC Bioinformatics, 2017, 18, 134.	2.6	19
30	A Bayesian Network-Based Approach to Selection of Intervention Points in the Mitogen-Activated Protein Kinase Plant Defense Response Pathway. Journal of Computational Biology, 2017, 24, 327-339.	1.6	8
31	Using Boolean Logic Modeling of Gene Regulatory Networks to Exploit the Links Between Cancer and Metabolism for Therapeutic Purposes. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 399-407.	6.3	8
32	Adaptive Controller Design for Unknown Systems Using Measured Data. Asian Journal of Control, 2016, 18, 1453-1466.	3.0	2
33	A Measurementâ€Based Approach for Designing Fixedâ€Order Controllers for Unknown Closedâ€Loop Architecture. Asian Journal of Control, 2016, 18, 686-698.	3.0	6
34	Linear circuits: a measurementâ€based approach. International Journal of Circuit Theory and Applications, 2015, 43, 205-232.	2.0	7
35	A nonparametric approach to design robust controllers for uncertain systems: Application to an air flow heating system. Journal of Process Control, 2015, 36, 1-10.	3.3	4
36	De novo transcriptome assemblies and annotation for pacifie whiteleg shrimp. , 2014, , .		0

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37	A new measurement based approach to the study of biological systems. , 2014, , .		0
38	A measurement-based technique for designing fixed-order RST controllers and application to a coupled water tank system. Systems Science and Control Engineering, 2014, 2, 484-492.	3.1	3
39	A data-based approach for designing adaptive controllers for unknown systems. , 2014, , .		1
40	Model-Free Controller Tuning Based on DFT Processing: Application to Induction Motor Drives. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 1013-1023.	5.4	2
41	A Model for Cancer Tissue Heterogeneity. IEEE Transactions on Biomedical Engineering, 2014, 61, 966-974.	4.2	14
42	A model-free design of reduced-order controllers and application to a DC servomotor. Automatica, 2014, 50, 2142-2149.	5.0	23
43	A Measurement-Based Approach for Speed Control of Induction Machines. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 308-318.	5.4	7
44	Optimal Intervention in Markovian Gene Regulatory Networks With Random-Length Therapeutic Response to Antitumor Drug. IEEE Transactions on Biomedical Engineering, 2013, 60, 3542-3552.	4.2	16
45	On the modeling of heterogeneity in cancer tissue. , 2013, , .		0
46	On the modeling of heterogeneity in cancer tissue. , 2013, , .		0
47	Grand Challenges in Interfacing Engineering With Life Sciences and Medicine. IEEE Transactions on Biomedical Engineering, 2013, 60, 589-598.	4.2	42
48	Boolean network model of oxidative stress response pathways. , 2012, , .		0
49	INTERVENTION IN BIOLOGICAL PHENOMENA REPRESENTED BY GENETIC REGULATORY NETWORKS: A VARIABLE STRUCTURE APPROACH. Journal of Biological Systems, 2012, 20, 327-347.	1.4	0
50	FAULT DETECTION AND INTERVENTION IN BIOLOGICAL FEEDBACK NETWORKS. Journal of Biological Systems, 2012, 20, 441-453.	1.4	20
51	Determining the relative prevalence of different subpopulations in heterogeneous cancer tissue. , 2012, , .		2
52	Optimal Intervention Strategies for Therapeutic Methods With Fixed-Length Duration of Drug Effectiveness. IEEE Transactions on Signal Processing, 2012, 60, 4930-4944.	5.3	22
53	Optimal therapeutic methods with random-length response in probabilistic boolean networks. , 2012, , .		0
54	Optimal cancer therapy based on a tumor growth inhibition model. , 2012, , .		0

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55	Generating Stochastic Gene Regulatory Networks Consistent With Pathway Information and Steady-State Behavior. IEEE Transactions on Biomedical Engineering, 2012, 59, 1701-1710.	4.2	4
56	Modelling oxidative stress response pathways. , 2011, , .		1
57	From biological pathways to regulatory networks. Molecular BioSystems, 2011, 7, 843-851.	2.9	88
58	Modeling cyclic and acyclic therapeutic methods with persistent intervention effect in probabilistic Boolean networks. , 2011, , .		0
59	Optimal intervention strategies for cyclic therapeutic methods with fixed-length duration of effect. , 2011, , .		2
60	Combination therapy design for cancer: A digital systems approach. , 2011, , .		0
61	From biological pathways to regulatory networks. , 2010, , .		6
62	Stationary and structural control in gene regulatory networks: basic concepts. International Journal of Systems Science, 2010, 41, 5-16.	5.5	33
63	Sampling-rate-dependent probabilistic Boolean networks. Journal of Theoretical Biology, 2009, 261, 540-547.	1.7	4
64	Bayesian Robustness in the Control of Gene Regulatory Networks. IEEE Transactions on Signal Processing, 2009, 57, 3667-3678.	5.3	34
65	Quantification of data extraction noise in probabilistic Boolean Network modeling. , 2009, , .		0
66	Recent Advances in Intervention in Markovian Regulatory Networks. Current Genomics, 2009, 10, 463-477.	1.6	16
67	Intervention in Gene Regulatory Networks via a Stationary Mean-First-Passage-Time Control Policy. IEEE Transactions on Biomedical Engineering, 2008, 55, 2319-2331.	4.2	46
68	Optimal Intervention in Asynchronous Genetic Regulatory Networks. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 412-423.	10.8	40
69	Robust Intervention in Probabilistic Boolean Networks. IEEE Transactions on Signal Processing, 2008, 56, 1280-1294.	5.3	60
70	Modeling cyclic therapy in gene regulatory networks. , 2008, , .		0
71	Comparison of robust strategies for the control of gene regulatory networks. , 2008, , .		0
72	Constrained intervention in a cancerous mammalian cell cycle network. , 2008, , .		0

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73	Mean first-passage time control policy versus reinforcement-learning control policy in gene regulatory networks. , 2008, , .		0
74	Optimal intervention in semi-Markov-based asynchronous genetic regulatory networks. , 2008, , .		1
75	Robust Intervention in Probabilistic Boolean Networks. Proceedings of the American Control Conference, 2007, , .	0.0	4
76	Robustness of Intervention Strategies for Probabilistic Boolean Networks. , 2007, , .		0
77	Bayesian Robustness in the Control of Gene Regulatory Networks. , 2007, , .		4
78	Which Control Gene Should be Used in Genetic Regulatory Networks?. , 2007, , .		2
79	Comparative non-cholinergic neurotoxic effects of paraoxon and diisopropyl fluorophosphate (DFP) on human neuroblastoma and astrocytoma cell lines. Toxicology and Applied Pharmacology, 2007, 219, 162-171.	2.8	23
80	Synthesizing Boolean networks with a given attractor structure. , 2006, , .		2
81	Altering steady-state probabilities in probabilistic Boolean networks. , 2006, , .		0
82	Control in a family of Boolean networks. , 2006, , .		1
83	Intervention in Probabilistic Gene Regulatory Networks. Current Bioinformatics, 2006, 1, 167-184.	1.5	21
84	External Control in Markovian Genetic Regulatory Networks. Machine Learning, 2003, 52, 169-191.	5.4	215
85	Design of a decentralized detection of interacting LTI systems. Mathematical Problems in Engineering, 2002, 8, 233-248.	1.1	20
86	Adaptive internal model control: the discrete-time case. International Journal of Adaptive Control and Signal Processing, 2001, 15, 15-36.	4.1	24
87	Generalizations of the Hermiteâ€“Biehler theorem: the complex case. Linear Algebra and Its Applications, 2000, 320, 23-36.	0.9	25
88	Adaptive internal model control: H2 optimization for stable plants. Automatica, 1998, 34, 75-82.	5.0	21
89	Adaptive internal model control: Design and stability analysis. Automatica, 1996, 32, 261-266.	5.0	84
90	Directly computableL2 andLâˆž performance bounds for morse's dynamic certainty equivalence adaptive controller. International Journal of Adaptive Control and Signal Processing, 1995, 9, 423-432.	4.1	3

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91	Enhanced Xanthotoxin Content in Regenerating Cultures ofAmmi majusand Micropropagation. Planta Medica, 1995, 61, 481-482.	1.3	26
92	In Vitro Flowering and High Xanthotoxin in Ammi majus L.. Journal of Plant Biochemistry and Biotechnology, 1995, 4, 73-76.	1.7	5
93	On the transient behaviour in discrete-time model reference adaptive control: Analysis and possible improvement. Automatica, 1994, 30, 527-531.	5.0	6