

Ishanu Chattopadhyay

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

346
citations

1039880

9
h-index

996849

15
g-index

51
all docs

51
docs citations

51
times ranked

306
citing authors

#	ARTICLE	IF	CITATIONS
1	Autostacker. , 2018, , .		50
2	Conjunction of factors triggering waves of seasonal influenza. ELife, 2018, 7, .	2.8	35
3	Supervised Self-Organization of Homogeneous Swarms Using Ergodic Projections of Markov Chains. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 1505-1515.	5.5	31
4	Language-measure-theoretic optimal control of probabilistic finite-state systems. International Journal of Control, 2007, 80, 1271-1290.	1.2	30
5	Structural transformations of probabilistic finite state machines. International Journal of Control, 2008, 81, 820-835.	1.2	30
6	Data smashing: uncovering lurking order in data. Journal of the Royal Society Interface, 2014, 11, 20140826.	1.5	17
7	Estimating heritability and genetic correlations from large health datasets in the absence of genetic data. Nature Communications, 2019, 10, 5508.	5.8	17
8	Abductive learning of quantized stochastic processes with probabilistic finite automata. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20110543.	1.6	16
9	Postnatal immune activation causes social deficits in a mouse model of tuberous sclerosis: Role of microglia and clinical implications. Science Advances, 2021, 7, eabf2073.	4.7	12
10	Inverse Gillespie for inferring stochastic reaction mechanisms from intermittent samples. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12990-12995.	3.3	11
11	Reduced false positives in autism screening via digital biomarkers inferred from deep comorbidity patterns. Science Advances, 2021, 7, eabf0354.	4.7	11
12	Ĥ: a robot path planning algorithm based on renormalised measure of probabilistic regular languages. International Journal of Control, 2009, 82, 849-867.	1.2	10
13	Information fusion for object & situation assessment in sensor networks. , 2011, , .		10
14	Unsupervised inductive learning in symbolic sequences via Recursive Identification of Self-Similar Semantics. , 2011, , .		6
15	Development of a computerized adaptive diagnostic screening tool for psychosis. Schizophrenia Research, 2022, 245, 116-121.	1.1	6
16	Computing entropy rate of symbol sources & a distribution-free limit theorem. , 2014, , .		5
17	Event-level prediction of urban crime reveals a signature of enforcement bias in US cities. Nature Human Behaviour, 2022, 6, 1056-1068.	6.2	5
18	A language measure for partially observed discrete event systems. International Journal of Control, 2006, 79, 1074-1086.	1.2	4

#	ARTICLE	IF	CITATIONS
19	Autonomous Navigation of Mobile Robots Using Optimal Control of Finite State Automata. , 2006, , .		4
20	Autonomous robot navigation using optimal control of probabilistic regular languages. International Journal of Control, 2009, 82, 13-26.	1.2	4
21	Development and Validation of Computerized Adaptive Assessment Tools for the Measurement of Posttraumatic Stress Disorder Among US Military Veterans. JAMA Network Open, 2021, 4, e2115707.	2.8	4
22	L*: An intelligent path planning algorithm based on renormalized measure of probabilistic regular languages. , 2008, , .		3
23	GODDeS: Globally ∈-Optimal Routing Via Distributed Decision-theoretic Self-organization. , 2011, , .		3
24	A COMPLEX MEASURE FOR LINEAR GRAMMARS. Demonstratio Mathematica, 2005, 38, .	0.6	2
25	Language-measure-theoretic optimal control of probabilistic finite-state systems. , 2007, , .		2
26	Generalised projections in finite state automata and decidability of state determinacy. International Journal of Control, 2008, 81, 1626-1644.	1.2	2
27	Optimal path-planning under finite memory obstacle dynamics based on probabilistic finite state automata models. , 2009, , .		2
28	Generalization of v^{\sup} path planning for accommodation of amortized dynamic uncertainties in plan execution. , 2009, , .		2
29	Optimal control of infinite horizon partially observable decision processes modelled as generators of probabilistic regular languages. International Journal of Control, 2010, 83, 457-483.	1.2	2
30	Scalable ϵ -Optimal Decision-Making and Stochastic Routing in Large Networks via Distributed Supervision of Probabilistic Automata. SIAM Journal on Control and Optimization, 2014, 52, 2512-2547.	1.1	2
31	Universal risk phenotype of US counties for flu-like transmission to improve county-specific COVID-19 incidence forecasts. PLoS Computational Biology, 2021, 17, e1009363.	1.5	2
32	Intelligent Navigation in Space Under Supervisory Control. , 2005, , .		1
33	Generalized Projections in Finite State Automata & Decidability of State Determinacy. Proceedings of the American Control Conference, 2007, , .	0.0	1
34	Supervised self-organization of large homogeneous Swarms using Ergodic Projections of Markov Chains. , 2009, , .		1
35	Mathematical Foundations of Sensor Network Design Based On Linguistic Informatics. , 2010, , .		1
36	Pattern classification in symbolic streams via semantic annihilation of information. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
37	Generalized Language Measure of Finite State Logical Systems. , 2006, , .		0
38	Generalized language measure families of probabilistic finite state systems. International Journal of Control, 2007, 80, 789-799.	1.2	0
39	A real time implementable All-Pair Dynamic Planning Algorithm for robot navigation based on the renormalized measure of probabilistic regular languages. , 2009, , .		0
40	Signal threshold estimation in a sensor field for undersea target tracking. , 2009, , .		0
41	A decision-theoretic model of selection modulated intra-host antigenic variation for multi-strain pathogens. , 2010, , .		0
42	Discrimination at the Edge of Noise: A Hilbert Space of Stationary Ergodic Processes. , 2017, , .		0
43	A Tamper-Free Semi-Universal Communication System for Deletion Channels. , 2018, , .		0
44	Advanced Topics in Supervisory Control. , 2005, , 95-130.		0