

# 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	Development of a computerized adaptive diagnostic screening tool for psychosis. <i>Schizophrenia Research</i> , 2022, 245, 116-121.	1.1	6
2	Event-level prediction of urban crime reveals a signature of enforcement bias in US cities. <i>Nature Human Behaviour</i> , 2022, 6, 1056-1068.	6.2	5
3	Development and Validation of Computerized Adaptive Assessment Tools for the Measurement of Posttraumatic Stress Disorder Among US Military Veterans. <i>JAMA Network Open</i> , 2021, 4, e2115707.	2.8	4
4	Postnatal immune activation causes social deficits in a mouse model of tuberous sclerosis: Role of microglia and clinical implications. <i>Science Advances</i> , 2021, 7, eabf2073.	4.7	12
5	Reduced false positives in autism screening via digital biomarkers inferred from deep comorbidity patterns. <i>Science Advances</i> , 2021, 7, eabf0354.	4.7	11
6	Universal risk phenotype of US counties for flu-like transmission to improve county-specific COVID-19 incidence forecasts. <i>PLoS Computational Biology</i> , 2021, 17, e1009363.	1.5	2
7	Estimating heritability and genetic correlations from large health datasets in the absence of genetic data. <i>Nature Communications</i> , 2019, 10, 5508.	5.8	17
8	A Tamper-Free Semi-Universal Communication System for Deletion Channels. , 2018, , .		0
9	Autostacker. , 2018, , .		50
10	Conjunction of factors triggering waves of seasonal influenza. <i>ELife</i> , 2018, 7, .	2.8	35
11	Discrimination at the Edge of Noise: A Hilbert Space of Stationary Ergodic Processes. , 2017, , .		0
12	Computing entropy rate of symbol sources & a distribution-free limit theorem. , 2014, , .		5
13	Scalable $\epsilon$ -Optimal Decision-Making and Stochastic Routing in Large Networks via Distributed Supervision of Probabilistic Automata. <i>SIAM Journal on Control and Optimization</i> , 2014, 52, 2512-2547.	1.1	2
14	Data smashing: uncovering lurking order in data. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140826.	1.5	17
15	Inverse Gillespie for inferring stochastic reaction mechanisms from intermittent samples. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12990-12995.	3.3	11
16	Abductive learning of quantized stochastic processes with probabilistic finite automata. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110543.	1.6	16
17	Information fusion for object & situation assessment in sensor networks. , 2011, , .		10
18	GODDeS: Globally $\epsilon$ -Optimal Routing Via Distributed Decision-theoretic Self-organization. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
19	Unsupervised inductive learning in symbolic sequences via Recursive Identification of Self-Similar Semantics. , 2011, , .		6
20	Mathematical Foundations of Sensor Network Design Based On Linguistic Informatics. , 2010, , .		1
21	Pattern classification in symbolic streams via semantic annihilation of information. , 2010, , .		1
22	A decision-theoretic model of selection modulated intra-host antigenic variation for multi-strain pathogens. , 2010, , .		0
23	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
24	Autonomous robot navigation using optimal control of probabilistic regular languages. International Journal of Control, 2009, 82, 13-26.	1.2	4
25	Supervised self-organization of large homogeneous Swarms using Ergodic Projections of Markov Chains. , 2009, , .		1
26	Optimal path-planning under finite memory obstacle dynamics based on probabilistic finite state automata models. , 2009, , .		2
27	Generalization of $v^{\sup}$ path planning for accommodation of amortized dynamic uncertainties in plan execution. , 2009, , .		2
28	A real time implementable All-Pair Dynamic Planning Algorithm for robot navigation based on the renormalized measure of probabilistic regular languages. , 2009, , .		0
29	$\hat{\nu}$ : a robot path planning algorithm based on renormalised measure of probabilistic regular languages. International Journal of Control, 2009, 82, 849-867.	1.2	10
30	Signal threshold estimation in a sensor field for undersea target tracking. , 2009, , .		0
31	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
32	Structural transformations of probabilistic finite state machines. International Journal of Control, 2008, 81, 820-835.	1.2	30
33	Generalised projections in finite state automata and decidability of state determinacy. International Journal of Control, 2008, 81, 1626-1644.	1.2	2
34	$L^*$ : An intelligent path planning algorithm based on renormalized measure of probabilistic regular languages. , 2008, , .		3
35	Language-measure-theoretic optimal control of probabilistic finite-state systems. , 2007, , .		2
36	Language-measure-theoretic optimal control of probabilistic finite-state systems. International Journal of Control, 2007, 80, 1271-1290.	1.2	30

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37	Generalized Projections in Finite State Automata & Decidability of State Determinacy. Proceedings of the American Control Conference, 2007, , .	0.0	1
38	Generalized language measure families of probabilistic finite state systems. International Journal of Control, 2007, 80, 789-799.	1.2	0
39	Generalized Language Measure of Finite State Logical Systems. , 2006, , .		0
40	A language measure for partially observed discrete event systems. International Journal of Control, 2006, 79, 1074-1086.	1.2	4
41	Autonomous Navigation of Mobile Robots Using Optimal Control of Finite State Automata. , 2006, , .		4
42	A COMPLEX MEASURE FOR LINEAR GRAMMARS. Demonstratio Mathematica, 2005, 38, .	0.6	2
43	Intelligent Navigation in Space Under Supervisory Control. , 2005, , .		1
44	Advanced Topics in Supervisory Control. , 2005, , 95-130.		0