

# Tuhin Sahai

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8089316/publications.pdf>

Version: 2024-02-01

28  
papers

310  
citations

1039406

9  
h-index

887659

17  
g-index

28  
all docs

28  
docs citations

28  
times ranked

257  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hearing the clusters of a graph: A distributed algorithm. Automatica, 2012, 48, 15-24.	3.0	62
2	Aircraft Spin Recovery, with and without Thrust Vectoring, Using Nonlinear Dynamic Inversion. Journal of Aircraft, 2005, 42, 1492-1503.	1.7	59
3	Thermomechanical transitions in doubly-clamped micro-oscillators. International Journal of Non-Linear Mechanics, 2007, 42, 596-607.	1.4	30
4	TeLEx: learning signal temporal logic from positive examples using tightness metric. Formal Methods in System Design, 2019, 54, 364-387.	0.9	23
5	TeLEx: Passive STL Learning Using Only Positive Examples. Lecture Notes in Computer Science, 2017, , 208-224.	1.0	15
6	Wave equation based algorithm for distributed eigenvector computation. , 2010, , .		13
7	Scalable approach to uncertainty quantification and robust design of interconnected dynamical systems. Annual Reviews in Control, 2011, 35, 77-98.	4.4	13
8	Modeling of Coupled Dome-Shaped Microoscillators. Journal of Microelectromechanical Systems, 2008, 17, 777-786.	1.7	9
9	Spectral Complexity of Directed Graphs and Application to Structural Decomposition. Complexity, 2019, 2019, 1-18.	0.9	9
10	Explaining AI Decisions Using Efficient Methods for Learning Sparse Boolean Formulae. Journal of Automated Reasoning, 2019, 63, 1055-1075.	1.1	9
11	An efficient algorithm for the parallel solution of high-dimensional differential equations. Journal of Computational and Applied Mathematics, 2011, 235, 3053-3062.	1.1	8
12	ITERATIVE METHODS FOR SCALABLE UNCERTAINTY QUANTIFICATION IN COMPLEX NETWORKS. , 2012, 2, 413-439.		7
13	Uncertainty quantification in hybrid dynamical systems. Journal of Computational Physics, 2013, 237, 411-427.	1.9	7
14	On Learning Sparse Boolean Formulae for Explaining AI Decisions. Lecture Notes in Computer Science, 2017, , 99-114.	1.0	7
15	Uncertainty as a stabilizer of the head-tail ordered phase in carbon-monoxide monolayers on graphite. Physical Review B, 2009, 80, .	1.1	6
16	Efficient tracking and pursuit of moving targets by heuristic solution of the traveling salesman problem. , 2013, , .		5
17	Dynamical Systems Theory and Algorithms for NP-hard Problems. Studies in Systems, Decision and Control, 2020, , 183-206.	0.8	4
18	Spin Recovery of an Aircraft Using Nonlinear Dynamic Inversion Techniques. , 2004, , .		3

#	ARTICLE	IF	CITATIONS
19	Polynomial chaos based uncertainty quantification in Hamiltonian and chaotic systems. , 2013, , .		3
20	A chaotic dynamical system that paints and samples. IFAC-PapersOnLine, 2017, 50, 10760-10765.	0.5	3
21	Continuous relaxations for the traveling salesman problem. Nonlinear Dynamics, 2019, 97, 2003-2022.	2.7	3
22	Polynomial chaos based uncertainty quantification in Hamiltonian, multi-time scale, and chaotic systems. Journal of Computational Dynamics, 2014, 1, 357-375.	0.4	3
23	Backbone transitions and invariant tori in forced micromechanical oscillators with optical detection. Nonlinear Dynamics, 2010, 62, 273-289.	2.7	2
24	Rare Event Simulation of a Rotorcraft System. , 2018, , .		2
25	A spectral assignment approach for the graph isomorphism problem. Information and Inference, 2018, , .	0.9	2
26	Estimating the Density of States of Boolean Satisfiability Problems on Classical and Quantum Computing Platforms. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 1627-1635.	3.6	2
27	Post Quantum Secure Command and Control of Mobile Agents Inserting quantum-resistant encryption schemes in the Secure Robot Operating System. , 2020, , .		1
28	Uncertainty quantification in hybrid dynamical systems. , 2012, , .		0