

Satoshi Satoh

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

190
citations

1306789

7
h-index

1199166

12
g-index

50
all docs

50
docs citations

50
times ranked

106
citing authors

#	ARTICLE	IF	CITATIONS
1	Passivity Based Control of Stochastic Port-Hamiltonian Systems. IEEE Transactions on Automatic Control, 2013, 58, 1139-1153.	3.6	39
2	An Iterative Method for Nonlinear Stochastic Optimal Control Based on Path Integrals. IEEE Transactions on Automatic Control, 2017, 62, 262-276.	3.6	20
3	Bounded stabilisation of stochastic port-Hamiltonian systems. International Journal of Control, 2014, 87, 1573-1582.	1.2	14
4	Gait Generation for Passive Running via Iterative Learning Control. , 2006, , .		12
5	Biped gait generation via iterative learning control including discrete state transitions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 1729-1734.	0.4	11
6	Feedback attitude control of spacecraft using two single gimbal control moment gyros. Advances in Space Research, 2021, 68, 2713-2726.	1.2	10
7	Attitude control for spacecraft using pyramid-type variable-speed control moment gyros. Acta Astronautica, 2020, 173, 252-265.	1.7	9
8	Gait generation via unified learning optimal control of Hamiltonian systems. Robotica, 2013, 31, 717-732.	1.3	8
9	A framework for optimal gait generation via learning optimal control using virtual constraint. , 2008, , .		6
10	Stability analysis of feedback systems with dead-zone nonlinearities by circle and Popov criteria. Automatica, 2016, 66, 96-100.	3.0	6
11	Input-to-state stability of stochastic port-Hamiltonian systems using stochastic generalized canonical transformations. International Journal of Robust and Nonlinear Control, 2017, 27, 3862-3885.	2.1	6
12	On passivity based control of stochastic port-Hamiltonian systems. , 2008, , .		5
13	Gait Generation for a Hopping Robot Via Iterative Learning Control Based on Variational Symmetry. , 2007, , 197-208.		5
14	Repetitive control of Hamiltonian systems based on variational symmetry. Systems and Control Letters, 2011, 60, 763-770.	1.3	4
15	A data-driven design method of PID controller with noise filter. IEJ Transactions on Electrical and Electronic Engineering, 2017, 12, S74.	0.8	4
16	Transition to an optimal periodic gait by simultaneous input and parameter optimization method of Hamiltonian systems. Artificial Life and Robotics, 2016, 21, 258-267.	0.7	3
17	Gait generation for a biped robot with knees and torso via trajectory learning and state-transition estimation. Artificial Life and Robotics, 2018, 23, 489-497.	0.7	3
18	Iterative feedback tuning for Hamiltonian systems based on variational symmetry. International Journal of Robust and Nonlinear Control, 2019, 29, 5845-5865.	2.1	3

#	ARTICLE	IF	CITATIONS
19	Bounded Stability of Nonlinear Stochastic Systems. SICE Journal of Control Measurement and System Integration, 2015, 8, 181-187.	0.4	3
20	On Observer Based Stochastic Trajectory Tracking Control of Mechanical Systems. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 106-113.	0.1	2
21	Stochastic performance analysis of visual motion observer and experimental verifications. , 2015, , .		2
22	Design and validation of an MPC controller for CMG-based testbed. Optimization and Engineering, 0, , 1.	1.3	2
23	Smooth and continuous interplanetary trajectory design of spacecraft using iterative patched-conic method. Acta Astronautica, 2021, 185, 58-69.	1.7	2
24	Stochastic Estimation Performance Analysis of Visual Motion Observer. Transactions of the Institute of Systems Control and Information Engineers, 2014, 27, 443-451.	0.1	2
25	Parameter Space Design of a Nonlinear Filter by Volume Rendering. Transactions of the Institute of Systems Control and Information Engineers, 2015, 28, 419-425.	0.1	2
26	Input and plant parameter optimization via learning optimal control of Hamiltonian systems. IFAC-PapersOnLine, 2015, 48, 57-62.	0.5	1
27	Simultaneous Learning Optimization of Hamiltonian Systems and Trajectory Tracking Around an Asteroid. Journal of Guidance, Control, and Dynamics, 2020, 43, 222-231.	1.6	1
28	Modeling of hydraulic support system for large structures. Transactions of the JSME (in Japanese), 2021, 87, 21-00059-21-00059.	0.1	1
29	Experimental validation of hydraulic support system for large structures. Transactions of the JSME (in Japanese), 2021, 87, 21-00060-21-00060.	0.1	1
30	Optimal Earth-Moon Transfer Trajectory Design via Differential Dynamic Programming with Input Saturation Constraints. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2021, 19, 766-773.	0.1	1
31	A Gait Generation Framework via Learning Optimal Control Considering Discontinuous State Transitions. Journal of the Robotics Society of Japan, 2011, 29, 212-222.	0.0	1
32	Optimal Gait Generation for a One-legged Robot Based on Variational Symmetry of Hamiltonian Systems. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 1103-1110.	0.1	1
33	A symmetric structure of variational and adjoint systems of stochastic Hamiltonian systems. , 2010, , .		0
34	On Exponential Stability of Periodic Orbits in Left-continuous Dynamical Systems. Transactions of the Society of Instrument and Control Engineers, 2012, 48, 657-663.	0.1	0
35	A parameter space design method using simulation. , 2015, , .		0
36	A force regulation guaranteeing inputâ€”state stability for a robot manipulator in a potential field. IEJ Transactions on Electrical and Electronic Engineering, 2017, 12, S40.	0.8	0

#	ARTICLE	IF	CITATIONS
37	Performance analysis of visual feedback leader-following pose synchronization with stochastic uncertain leader in three dimensions. , 2017, , .		0
38	Nonlinear Stochastic Optimal Control with Input Saturation Constraints Based on Path Integrals. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 1169-1175.	0.8	0
39	Stochastic stabilization of rigid body motion of a spacecraft on SE(3). International Journal of Control, 2021, 94, 1166-1173.	1.2	0
40	Stochastic Bounded Stability in the Three-Body Problem with Probabilistic Uncertainty Using Port-Hamiltonian Representation. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2021, 19, 392-399.	0.1	0
41	Stability Analysis of Spacecraft Motion in the Vicinity of a Second Body in the Elliptic Restricted Three-body Problem. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2021, 19, 461-468.	0.1	0
42	Optimal Position and Attitude Control of Quadcopter Using Stochastic Differential Dynamic Programming with Input Saturation Constraints. Journal of Robotics and Mechatronics, 2021, 33, 283-291.	0.5	0
43	On Repetitive Control of Hamiltonian Systems Based on Variational Symmetry. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 711-713.	0.1	0
44	Passivity Based Control of Stochastic Port-hamiltonian Systems. Transactions of the Society of Instrument and Control Engineers, 2008, 44, 670-677.	0.1	0
45	Gain Estimation with Filterbank Using a Transient Response and Extension Theorem. Transactions of the Society of Instrument and Control Engineers, 2013, 49, 425-431.	0.1	0
46	Speeding Up of Calculation for μ -Synthesis of Low Order H ∞ Controllers. SICE Journal of Control Measurement and System Integration, 2013, 6, 202-207.	0.4	0
47	Preface to Special issue on System Control Innovation Resonant with Science and Technologies. Transactions of the Society of Instrument and Control Engineers, 2018, 54, 155-155.	0.1	0
48	Component-Based Detailed Modeling of a Small Wheeled Mobile Robot with Indispensable Nonlinearities. SICE Journal of Control Measurement and System Integration, 2018, 11, 72-80.	0.4	0
49	Continuous Control for Long-distance Formation in Eccentric Orbits. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2019, 17, 569-576.	0.1	0
50	Selecting Initial Gimbal Angles of Roof-type CMG System for Avoiding Singularities in Spacecraft Attitude Maneuver. Transactions of the Japan Society for Aeronautical and Space Sciences, 2022, 65, 123-133.	0.4	0