Insoon Yang

List of Publications by Year
in descending order

		1040056	794594
29 papers	**643** citations	**9** h-index	**19** g-index
29 all docs	**29** docs citations	**29** times ranked	**465** citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Machining Process Using Machine Learning: A Review and Perspective on Machining Industry. International Journal of Precision Engineering and Manufacturing - Green Technology, 2018, 5, 555-568.	4.9	194
2	Risk-Aware Motion Planning and Control Using CVaR-Constrained Optimization. IEEE Robotics and Automation Letters, 2019, 4, 3924-3931.	5.1	52
3	A Convex Optimization Approach to Distributionally Robust Markov Decision Processes With Wasserstein Distance. , 2017, 1, 164-169.		44
4	Wasserstein Distributionally Robust Stochastic Control: A Data-Driven Approach. IEEE Transactions on Automatic Control, 2021, 66, 3863-3870.	5.7	41
5	Optimal Control of Conditional Value-at-Risk in Continuous Time. SIAM Journal on Control and Optimization, 2017, 55, 856-884.	2.1	38
6	Safety-Aware Optimal Control of Stochastic Systems Using Conditional Value-at-Risk. , 2018, , .		34
7	Appropriate Smart Factory for SMEs: Concept, Application and Perspective. International Journal of Precision Engineering and Manufacturing, 2021, 22, 201-215.	2.2	34
8	A dynamic game approach to distributionally robust safety specifications for stochastic systems. Automatica, 2018, 94, 94-101.	5.0	33
9	Sample Efficient Home Power Anomaly Detection in Real Time Using Semi-Supervised Learning. IEEE Access, 2019, 7, 139712-139725.	4.2	27
10	Risk-Sensitive Safety Analysis Using Conditional Value-at-Risk. IEEE Transactions on Automatic Control, 2022, 67, 6521-6536.	5.7	20
11	Wasserstein Distributionally Robust Motion Control for Collision Avoidance Using Conditional Value-at-Risk. IEEE Transactions on Robotics, 2022, 38, 939-957.	10.3	17
12	Submodularity of energy storage placement in power networks. , 2016, , .		13
13	Wasserstein Distributionally Robust Motion Planning and Control with Safety Constraints Using Conditional Value-at-Risk. , 2020, , .		12
14	Submodularity of Storage Placement Optimization in Power Networks. IEEE Transactions on Automatic Control, 2019, 64, 3268-3283.	5.7	9
15	Multi-Objective Predictive Taxi Dispatch via Network Flow Optimization. IEEE Access, 2020, 8, 21437-21452.	4.2	9
16	Data-driven distributionally robust control of energy storage to manage wind power fluctuations. , 2017, , .		8
17	Learning-Based Distributionally Robust Motion Control with Gaussian Processes. , 2020, , .		8
18	Stochastic consensus dynamics for nonconvex optimization on the Stiefel manifold: Mean-field limit and convergence. Mathematical Models and Methods in Applied Sciences, 2022, 32, 533-617.	3.3	7

#	Article	IF	Citations
19	Infusing Model Predictive Control Into Meta-Reinforcement Learning for Mobile Robots in Dynamic Environments. IEEE Robotics and Automation Letters, 2022, 7, 10065-10072.	5.1	7
20	Approximation Algorithms for Optimization of Combinatorial Dynamical Systems. IEEE Transactions on Automatic Control, 2016, 61, 2644-2649.	5.7	6
21	Distributionally robust stochastic control with conic confidence sets. , 2017, , .		6
22	Data-Driven Distributionally Robust Stochastic Control of Energy Storage for Wind Power Ramp Management Using the Wasserstein Metric. Energies, 2019, 12, 4577.	3.1	6
23	Maximum Entropy Optimal Control of Continuous-Time Dynamical Systems. IEEE Transactions on Automatic Control, 2023, 68, 2018-2033.	5.7	4
24	A Convex Optimization Approach to Dynamic Programming in Continuous State and Action Spaces. Journal of Optimization Theory and Applications, 2020, 187, 133-157.	1.5	3
25	Minimax Control of Ambiguous Linear Stochastic Systems Using the Wasserstein Metric. , 2020, , .		3
26	Reactionâ€"diffusion systems in protein networks: Global existence and identification. Systems and Control Letters, 2014, 74, 50-57.	2.3	2
27	Variance-Constrained Risk Sharing in Stochastic Systems. IEEE Transactions on Automatic Control, 2017, 62, 1865-1879.	5.7	2
28	Stochastic Subgradient Methods for Dynamic Programming in Continuous State and Action Spaces. , 2019, , .		2
29	Toward Improving the Distributional Robustness of Risk-Aware Controllers in Learning-Enabled Environments. , 2021, , .		2