Kaushik Halder

List of Publications by Year
in descending order

26	361	1163065 8	1125717 13
papers	citations	h-index	g-index

26	26	26	251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	LQR based improved discrete PID controller design via optimum selection of weighting matrices using fractional order integral performance index. Applied Mathematical Modelling, 2013, 37, 4253-4268.	4.2	107
2	A Taxonomy and Survey of Edge Cloud Computing for Intelligent Transportation Systems and Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6206-6221.	8.0	72
3	Stability of Networked Control System (NCS) with discrete time-driven PID controllers. Control Engineering Practice, 2015, 42, 41-49.	5.5	25
4	Delay Handling Method in Dominant Pole Placement Based PID Controller Design. IEEE Transactions on Industrial Informatics, 2020, 16, 980-991.	11.3	22
5	Performance analysis of robust stable PID controllers using dominant pole placement for SOPTD process models. Knowledge-Based Systems, 2018, 146, 12-43.	7.1	19
6	Controller design for Networked Control Systemsâ€”An approach based on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></m induced norm. Nonlinear Analysis: Hybrid Systems, 2016, 19, 134-145.	3.5	18
7	An Interval Approach for Robust Control of a Large PHWR with PID Controllers. IEEE Transactions on Nuclear Science, 2015, 62, 281-292.	2.0	17
8	DistributedHâˆž Controller Design and Robustness Analysis for Vehicle Platooning Under Random Packet Drop. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4373-4386.	8.0	14
9	Optimum weight selection based LQR formulation for the design of fractional order PI^λD^μ controllers to handle a class of fractional order systems. , 2013, , .		10
10	Time delay handling in dominant pole placement with PID controllers to obtain stability regions using random sampling. International Journal of Control, 2020, , 1-22.	1.9	8
11	Impact of fractional order integral performance indices in LQR based PID controller design via optimum selection of weighting matrices. , 2012, , .		7
12	Transformation of LQR Weights for Discretization Invariant Performance of PI/PID Dominant Pole Placement Controllers. Robotica, 2020, 38, 271-298.	1.9	7
13	Optimal controller design for inverted pendulum system based on LQR method. , 2012, , .		6
14	Inverse optimal control formulation for guaranteed dominant pole placement with PI/PID controllers. , 2012, , .		6
15	Stability and Performance Analysis of Networked Control Systems: A Lifted Sample-Time Approach with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e1305" altimg="si3.gif"><mml:msub><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></m Induced Norm. ISA Transactions, 2019, 86, 62-72.	5.7	6
16	Autonomous Collision Avoidance Using MPC with LQR-Based Weight Transformation. Sensors, 2021, 21, 4296.	3.8	6
17	Distributed Controller Design for Vehicle Platooning under Packet Drop Scenario. , 2020, , .		4
18	Kalman filter based optimal control approach for attitude control of a missile. , 2013, , .		2

#	Article	IF	Citations
19	Missile attitude control via a hybrid LQG-LTR-LQI control scheme with optimum weight selection. , 2014, , .		2
20	Stability analysis of delayed system using Bode integral. , 2013, , .		1
21	Impact of weighting matrices in the design of discrete optimal controller based on LQR technique for non-linear system. , 2013, , .		1
22	QoS aware joint observer and networked PI/PID controller design using LMIs under specified rate of packet dropouts. Applied Mathematics and Computation, 2021, 401, 126125.	2.2	1
23	Controller design of a NCS with guaranteed exponential stability- a trace minimization approach. , 2015, , .		0
24	Stability anlysis and controller synthesis of networked control system (NCS) with arbitrary packet drop-outs. , 2015, , .		0
25	L₂ induced norm based pole placement controller for networked control system. , 2017, , .		0
26	Design and Real Time Software-in-the-Loop Simulation of Robust-Optimal Speed Controller for Vector Controlled Induction Machine. , 2017, , .		0