

Ranjit Kumar Barai

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

186
citations

1937685

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22
all docs

22
docs citations

22
times ranked

189
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear state feedback controller design for underactuated mechanical system: A modified block backstepping approach. ISA Transactions, 2014, 53, 317-326.	5.7	60
2	Design and implementation of a block backstepping based tracking control for nonholonomic wheeled mobile robot. International Journal of Robust and Nonlinear Control, 2016, 26, 3018-3035.	3.7	22
3	An FPGA based implementation of a flexible digital PID controller for a motion control system. , 2013, , .		19
4	Block Backstepping Design of Nonlinear State Feedback Control Law for Underactuated Mechanical Systems. , 2017, , .		19
5	Locomotion Control of a Hydraulically Actuated Hexapod Robot by Robust Adaptive Fuzzy Control with Self-Tuned Adaptation Gain and Dead Zone Fuzzy Pre-compensation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2008, 53, 35-56.	3.4	14
6	Block Backstepping Control of the Underactuated Mechanical Systems. , 2017, , 31-52.		8
7	Autonomous robot coverage in rescue operation. , 2013, , .		7
8	Locomotion control of a hydraulically actuated hexapod robot by robust adaptive fuzzy control and dead-zone compensation. Robotica, 2006, 25, 269-281.	1.9	6
9	Stabilization of Furuta Pendulum: A backstepping based hierarchical sliding Mode approach with disturbance estimation. , 2013, , .		6
10	Design of nonlinear state feedback control law for underactuated TORA system: A block backstepping approach. , 2013, , .		6
11	Design of block backstepping based nonlinear state feedback controller for pendubot. , 2016, , .		6
12	LFT modelling and H_{∞} control of a non-linear MIMO system with cross coupled dynamics. International Journal of Automation and Control, 2013, 7, 105.	0.5	4
13	Robust adaptive integral backstepping control and its implementation on Permanent Magnet Synchronous Motor. , 2012, , .		3
14	Applications of the Block Backstepping Algorithm on 2-DOF Underactuated Mechanical Systems: Some Case Studies. , 2017, , 53-108.		3
15	Sliding mode compensation of inverse dynamics velocity control. , 2012, , .		1
16	Global stabilization of a flat underactuated inertia wheel: A block backstepping approach. , 2013, , .		1
17	Reference input tracking of inversion-based non-minimum phase system using adaptive two-degree-of-freedom control. , 2016, , .		1
18	Development of Wi-Fi communication module for ATmega microcontroller based mobile robot for cooperative autonomous navigation. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Control- Oriented Linear Fractional Transformation Modelling and H [∞] Control of a Two-DOF Mass-Spring- Dashpot Dynamic System. Australian Journal of Multi-Disciplinary Engineering, 0, , 1-14.	0.8	0
20	Challenges and New Frontiers in the Field of Underactuated Mechanical Systems Control. , 2017, , 145-153.		0