

Gustavo A Medrano-Cerda

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

719
citations

1684188

5
h-index

1720034

7
g-index

23
all docs

23
docs citations

23
times ranked

617
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics for variable length multisection continuum arms. International Journal of Robotics Research, 2016, 35, 695-722.	8.5	112
2	Modal kinematics for multisection continuum arms. Bioinspiration and Biomimetics, 2015, 10, 035002.	2.9	76
3	Shape function-based kinematics and dynamics for variable length continuum robotic arms. , 2011, , .		75
4	Stability and performance of the compliance controller of the quadruped robot HyQ. , 2013, , .		64
5	Novel modal approach for kinematics of multisection continuum arms. , 2011, , .		63
6	Robot impedance control and passivity analysis with inner torque and velocity feedback loops. Control Theory and Technology, 2016, 14, 97-112.	1.6	56
7	On the role of load motion compensation in high-performance force control. , 2012, , .		45
8	Development and Control of a Compliant Asymmetric Antagonistic Actuator for Energy Efficient Mobility. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1080-1091.	5.8	43
9	Comparison of various active impedance control approaches, modeling, implementation, passivity, stability and trade-offs. , 2012, , .		38
10	Development of a dynamic simulator for a compliant humanoid robot based on a symbolic multibody approach. , 2013, , .		34
11	Dynamics for biomimetic continuum arms: A modal approach. , 2011, , .		30
12	Dynamic continuum arm model for use with underwater robotic manipulators inspired by octopus vulgaris. , 2012, , .		29
13	Gravity compensation control of compliant joint systems with multiple drives. , 2013, , .		11
14	A compliant humanoid walking strategy based on the switching of state feedback gravity compensation controllers. , 2013, , .		11
15	Optimal ankle compliance regulation for humanoid balancing control. , 2013, , .		8
16	Octopus inspired walking robot: Design, control and experimental validation. , 2013, , .		6
17	A push recovery strategy for a passively compliant humanoid robot using decentralized LQR controllers. , 2013, , .		5
18	Corrections for "Discretisation method and stability criteria for non-linear systems under discrete-time time delay control". IET Control Theory and Applications, 2016, 10, 1751-1754.	2.1	5

#	ARTICLE	IF	CITATIONS
19	On the use of positive feedback for improved torque control. Control Theory and Technology, 2015, 13, 266-285.	1.6	2
20	A design method of a robust controller for hydraulic actuation with disturbance observers. , 2016, , .		2
21	Stability analysis for time delay control of nonlinear systems in discrete-time domain with a standard discretisation method. Control Theory and Technology, 2020, 18, 92-106.	1.6	2
22	Design of a variable compliant humanoid foot with a new toe mechanism. , 2016, , .		1
23	Nonlinear structure of escape-times to falls for a passive dynamic walker on an irregular slope: Anomaly detection using multi-class support vector machine and latent state extraction by canonical correlation analysis. , 2011, , .		1