Pedro X La Hera

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4804840/publications.pdf

Version: 2024-02-01

29 papers	340 citations	1163117 8 h-index	888059 17 g-index
29 all docs	29 docs citations	29 times ranked	262 citing authors

#	Article	IF	Citations
1	Parallel Elastic Actuators as a Control Tool for Preplanned Trajectories of Underactuated Mechanical Systems. International Journal of Robotics Research, 2010, 29, 1186-1198.	8.5	72
2	Increasing the Level of Automation in the Forestry Logging Process with Crane Trajectory Planning and Control. Journal of Field Robotics, 2014, 31, 343-363.	6.0	61
3	New approach for swinging up the Furuta pendulum: Theory and experiments. Mechatronics, 2009, 19, 1240-1250.	3.3	46
4	Shaping stable periodic motions of inertia wheel pendulum: theory and experiment. Asian Journal of Control, 2009, 11, 548-556.	3.0	21
5	Virtual environment teleoperation of a hydraulic forestry crane. , 2008, , .		20
6	Path-Constrained Motion Analysis: An Algorithm to Understand Human Performance on Hydraulic Manipulators. IEEE Transactions on Human-Machine Systems, 2015, 45, 187-199.	3.5	13
7	Model-Based Development of Control Systems for Forestry Cranes. Journal of Control Science and Engineering, 2015, 2015, 1-15.	1.0	11
8	Open-loop control experiments on driver assistance for crane forestry machines. , 2011, , .		9
9	Non-linear dynamics modelling description for simulating the behaviour of forestry cranes. International Journal of Modelling, Identification and Control, 2014, 21, 125.	0.2	9
10	Motion planning for humanoid robots based on virtual constraints extracted from recorded human movements. Intelligent Service Robotics, 2008, 1, 289-301.	2.6	8
11	Identification and Control of a Hydraulic Forestry Crane. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 2306-2311.	0.4	8
12	A study case of Dynamic Motion Primitives as a motion planning method to automate the work of forestry cranes. Computers and Electronics in Agriculture, 2021, 183, 106037.	7.7	8
13	Electro-hydraulically actuated forestry manipulator: Modeling and Identification. , 2012, , .		7
14	What Do We Observe When We Equip a Forestry Crane with Motion Sensors?. Croatian Journal of Forest Engineering, 2019, 40, 259-280.	1.9	7
15	Design of energy efficient walking gaits for a three-link planar biped walker with two unactuated degrees of freedom. , 2012, , .		6
16	Generating human-like motions for an underactuated three-link robot based on the virtual constraints approach. , 2007, , .		5
17	Analysis of human-operated motions and trajectory replanning for kinematically redundant manipulators. , 2009, , .		5
18	Advances in using robots in forestry operations. Burleigh Dodds Series in Agricultural Science, 2019, , 233-260.	0.2	5

#	Article	IF	Citations
19	Modelling Dynamics of a Log-Yard through Discrete-Event Mathematics. Forests, 2020, 11, 155.	2.1	4
20	Steps in trajectory planning and controller design for a hydraulically driven crane with limited sensing. , 2010, , .		3
21	Simulation-based comparison between two crane-bunk systems for loading work when considering energy-optimal motion planning. International Journal of Forest Engineering, 2020, 31, 70-77.	0.8	3
22	Design, rapid manufacturing and modeling of a reduced-scale forwarder crane with closed kinematic chain. Mechanics Based Design of Structures and Machines, 2023, 51, 6748-6773.	4.7	3
23	A pilot user's prospective in mobile robotic telepresence system. , 2014, , .		2
24	How springs can help to stabilize motions of underactuated systems with weak actuators. , 2008, , .		1
25	Traversing from point-to-point along a straight line with a ballbot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 125-130.	0.4	1
26	Gait synthesis for a three-link planar biped walker with one actuator. , 2010, , .		1
27	Comparison of Alternative Pulpwood Inventory Strategies and Machine Systems at a Log-Yard Using Simulations. Forests, 2020, 11, 373.	2.1	1
28	Achievable balancing motions for a humanoid robot. , 2007, , .		0
29	Generating periodic motions for the butterfly robot. , 2013, , .		0