Lg Van Willigenburg

List of Publications by Year
in descending order

17 papers	421 citations	933447 10 h-index	1058476 14 g-index
17 all docs	17 docs citations	17 times ranked	367 citing authors

#	Article	IF	Citations
1	Collision-free inverse kinematics of the redundant seven-link manipulator used in a cucumber picking robot. Biosystems Engineering, 2010, 106, 112-124.	4.3	51
2	Compensatability and optimal compensation of systems with white parameters in the delta domain. International Journal of Control, 2010, 83, 2546-2563.	1.9	8
3	Optimal manipulator design for a cucumber harvesting robot. Computers and Electronics in Agriculture, 2009, 65, 247-257.	7.7	102
4	How non-zero initial conditions affect the minimality of linear discrete-time systems. International Journal of Systems Science, 2008, 39, 969-983.	5.5	0
5	ON THE SELECTION OF APPROPRIATE CONTROL SYSTEM DESIGN METHODOLOGIES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 115-120.	0.4	1
6	On-line near minimum-time path planning and control of an industrial robot for picking fruits. Computers and Electronics in Agriculture, 2004, 44, 223-237.	7.7	21
7	UDU Factored Discrete-Time Lyapunov Recursions Solve Optimal Reduced-Order LQG Problems. European Journal of Control, 2004, 10, 588-601.	2.6	8
8	Optimal control of nitrate in lettuce by a hybrid approach: differential evolution and adjustable control weight gradient algorithms. Computers and Electronics in Agriculture, 2003, 40, 179-197.	7.7	31
9	Efficient Differential Evolution algorithms for multimodal optimal control problems. Applied Soft Computing Journal, 2003, 3, 97-122.	7.2	97
10	MINIMALITY, CANONICAL FORMS AND STORAGE OF FINITE-HORIZON DISCRETE-TIME COMPENSATORS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 155-160.	0.4	0
11	Minimal and non-minimal optimal fixed-order compensators for time-varying discrete-time systems. Automatica, 2002, 38, 157-165.	5.0	13
12	Optimal Control of Nitrate in Lettuce by Gradient and Differential Evolution Algorithms. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 119-124.	0.4	2
13	Numerical Algorithms and Issues Concerning the Discrete-Time Optimal Projection Equations. European Journal of Control, 2000, 6, 93-110.	2.6	20
14	Robust optimal receding horizon control of the thermal sterilization of canned foods. Journal of Food Engineering, 1999, 40, 207-218.	5.2	28
15	Receding horizon optimal control of greenhouse climate based on the lazy man weather prediction. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 889-894.	0.4	19
16	Computation and Implementation of Digital Time-Optimal Feedback Controllers for an Industrial X-Y Robot subjected to Path, Torque, and Velocity Constraints. International Journal of Robotics Research, 1993, 12, 420-433.	8.5	14
17	A new optimization algorithm for singular and non-singular digital time-optimal control of robots. , 0, , .		6