

Darren M Dawson

List of Publications by Year in descending order

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59
papers

1,895
citations

361045

20
h-index

414034

32
g-index

59
all docs

59
docs citations

59
times ranked

1209
citing authors

#	ARTICLE	IF	CITATIONS
1	Lyapunov-Based Control of Mechanical Systems. , 2000, , .		203
2	Nonlinear Control of Engineering Systems. , 2003, , .		172
3	A Neural Network Controller for Continuum Robots. IEEE Transactions on Robotics, 2007, 23, 1270-1277.	7.3	155
4	A Lyapunov-Based Piezoelectric Controller for Flexible Cartesian Robot Manipulators. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2004, 126, 347-358.	0.9	84
5	A Two-Stage Lyapunov-Based Estimator for Estimation of Vehicle Mass and Road Grade. IEEE Transactions on Vehicular Technology, 2009, 58, 3177-3185.	3.9	82
6	An observer-based piezoelectric control of flexible Cartesian robot arms: theory and experiment. Control Engineering Practice, 2004, 12, 1041-1053.	3.2	72
7	Nonlinear-Control Strategy for Advanced Vehicle Thermal-Management Systems. IEEE Transactions on Vehicular Technology, 2008, 57, 127-137.	3.9	68
8	An Adjustable Steer-by-Wire Haptic-Interface Tracking Controller for Ground Vehicles. IEEE Transactions on Vehicular Technology, 2009, 58, 546-554.	3.9	61
9	Dynamic Modelling for Planar Extensible Continuum Robot Manipulators. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	60
10	Asymptotically Stabilizing Angle Feedback for a Flexible Cable Gantry Crane. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 563-566.	0.9	59
11	Identification of a moving object's velocity with a fixed camera. Automatica, 2005, 41, 553-562.	3.0	59
12	Robust control of robots by the computed torque law. Systems and Control Letters, 1991, 16, 25-32.	1.3	56
13	A Smart Multiple-Loop Automotive Cooling System Model, Control, and Experimental Study. IEEE/ASME Transactions on Mechatronics, 2010, 15, 117-124.	3.7	51
14	Exponentially stable trajectory following of robotic manipulators under a class of adaptive controls. Automatica, 1992, 28, 579-586.	3.0	47
15	A Continuous Control Mechanism for Uncertain Nonlinear Systems. Lecture Notes in Control and Information Sciences, 0, , 251-264.	0.6	46
16	Adaptive control of redundant robot manipulators with sub-task objectives. Robotica, 2009, 27, 873-881.	1.3	46
17	New dynamic models for planar extensible continuum robot manipulators. , 2007, , .		45
18	Lyapunov-Based Vibration Control of Translational Euler-Bernoulli Beams Using the Stabilizing Effect of Beam Damping Mechanisms. JVC/Journal of Vibration and Control, 2004, 10, 933-961.	1.5	44

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19	Navigation function-based visual servo control. <i>Automatica</i> , 2007, 43, 1165-1177.	3.0	44
20	Robust estimation and control of robotic manipulators. <i>Robotica</i> , 1995, 13, 223-231.	1.3	40
21	Robust tracking control of an underactuated quadrotor aerial-robot based on a parametric uncertain model. , 2009, , .		33
22	Robust Tracking Control of a Switched Reluctance Motor Turning and Inertial Load. , 1992, , .		33
23	Teleoperation with kinematically redundant robot manipulators with sub-task objectives. <i>Robotica</i> , 2009, 27, 1027-1038.	1.3	32
24	A New Class of Robust Control Laws for Tracking of Robots. <i>International Journal of Robotics Research</i> , 1994, 13, 355-363.	5.8	28
25	Output Feedback Tracking Control of an Underactuated Quad-Rotor UAV. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	28
26	Ground vehicle steering systems: modelling, control, and analysis of hydraulic, electric and steer-by-wire configurations. <i>International Journal of Vehicle Design</i> , 2007, 44, 188.	0.1	24
27	Robust nonlinear control strategy to maximize energy capture in a variable speed wind turbine with an internal induction generator. <i>Journal of Control Theory and Applications</i> , 2012, 10, 184-194.	0.8	20
28	Adaptive tracking control of an underactuated aerial vehicle. , 2011, , .		19
29	Adaptive control of redundant robot manipulators with sub-task objectives. , 2008, , .		17
30	Tension and Speed Regulation for Axially Moving Materials. <i>Journal of Dynamic Systems, Measurement and Control</i> , <i>Transactions of the ASME</i> , 2000, 122, 445-453.	0.9	15
31	Design and Implementation of the Robotic Platform. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2004, 39, 105-129.	2.0	13
32	UAV Tracking with a Monocular Camera. , 2006, , .		13
33	Vision Assisted Autonomous Path Following for Unmanned Aerial Vehicles. , 2006, , .		12
34	Vision-Based Leader/Follower Tracking for Nonholonomic Mobile Robots. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	10
35	Range identification of features on an object using a single camera. <i>Automatica</i> , 2011, 47, 201-206.	3.0	9
36	Evaluation of a customizable haptic feedback system for ground vehicle steer-by-wire interfaces. , 2012, , .		9

#	ARTICLE	IF	CITATIONS
37	Model Reference Robust Control of A Class of SISO Systems. , 1992, , .		7
38	Adaptive position and orientation regulation for the camera-in-hand problem. Journal of Field Robotics, 2005, 22, 457-473.	0.7	7
39	Optimizing antiangiogenic therapy for tumor minimization. , 2010, , .		7
40	Evaluation of driver steering preferences using an automotive simulator. International Journal of Vehicle Design, 2014, 66, 124.	0.1	7
41	Euclidean Position Estimation of Static Features Using a Moving Uncalibrated Camera. IEEE Transactions on Control Systems Technology, 2012, 20, 480-485.	3.2	6
42	Cooperative control of multiple vehicles with limited sensing. International Journal of Adaptive Control and Signal Processing, 2007, 21, 115-131.	2.3	5
43	Adaptive output tracking control of a surface vessel. , 2008, , .		5
44	Position based structure from motion using a moving calibrated camera. , 2008, , .		5
45	Set-point navigation of a redundant robot in uncertain environments using finite range sensors. , 2008, , .		5
46	Adaptive Control of Flat MIMO Nonlinear Systems With Additive Disturbance. Proceedings of the American Control Conference, 2007, , .	0.0	4
47	A Lyapunov-Based Method for Estimation of Euclidean Position of Static Features Using a Single Camera. Proceedings of the American Control Conference, 2007, , .	0.0	4
48	Robust output tracking control of a surface vessel. , 2008, , .		4
49	Adaptive camera calibration with measurable position of fixed features. , 2008, , .		4
50	Teleoperation with kinematically redundant robot manipulators with sub-task objectives. , 2008, , .		4
51	Lyapunov-based continuous-stirred tank bioreactor control to maximize biomass production using the haldane and monod specific growth models. , 2010, , .		3
52	A new robust nonlinear control algorithm for the regulation of blood glucose in diabetic patients. , 2012, , .		3
53	A Reduced-Order Observer Based Piezoelectric Control of Flexible Cartesian (SCARA) Robot Manipulator. , 2002, , 395.		2
54	Lyapunov Direct Design of Robust Control for Electrical-Mechanical Systems Composed of Cascaded Nonlinear Uncertain Subsystems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1995, 117, 54-62.	0.9	1

#	ARTICLE	IF	CITATIONS
55	Euclidean position estimation of static features using a moving uncalibrated camera. , 2009, , .		1
56	Range identification for nonlinear parameterizable paracatadioptric systems. , 2009, , .		1
57	Adaptive trajectory tracking control of microcantilever's tip used in AFM with a general nonlinear tip-sample interaction force. , 2011, , .		1
58	Full-State Feedback Tracking Controllers. , 2000, , 53-86.		0
59	Output Feedback Tracking Controllers. , 2000, , 87-127.		0