Darren M Dawson

List of Publications by Year
in descending order

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	Evaluation of driver steering preferences using an automotive simulator. International Journal of Vehicle Design, 2014, 66, 124.	0.1	7
2	Evaluation of a customizable haptic feedback system for ground vehicle steer-by-wire interfaces. , 2012, , .		9
3	Euclidean Position Estimation of Static Features Using a Moving Uncalibrated Camera. IEEE Transactions on Control Systems Technology, 2012, 20, 480-485.	3.2	6
4	A new robust nonlinear control algorithm for the regulation of blood glucose in diabetic patients. , 2012, , .		3
5	Robust nonlinear control strategy to maximize energy capture in a variable speed wind turbine with an internal induction generator. Journal of Control Theory and Applications, 2012, 10, 184-194.	0.8	20
6	Adaptive tracking control of an underactuated aerial vehicle. , 2011, , .		19
7	Range identification of features on an object using a single camera. Automatica, 2011, 47, 201-206.	3.0	9
8	Adaptive trajectory tracking control of microcantilever's tip used in AFM with a general nonlinear tip-sample interaction force. , 2011, , .		1
9	Lyapunov-based continuous-stirred tank bioreactor control to maximize biomass production using the haldane and monod specific growth models. , 2010, , .		3
10	A Smart Multiple-Loop Automotive Cooling System—Model, Control, and Experimental Study. IEEE/ASME Transactions on Mechatronics, 2010, 15, 117-124.	3.7	51
11	Optimizing antiangiogenic therapy for tumor minimization. , 2010, , .		7
12	Euclidean position estimation of static features using a moving uncalibrated camera. , 2009, , .		1
13	Range identification for nonlinear parameterizable paracatadioptric systems. , 2009, , .		1
14	Adaptive control of redundant robot manipulators with sub-task objectives. Robotica, 2009, 27, 873-881.	1.3	46
15	Teleoperation with kinematically redundant robot manipulators with sub-task objectives. Robotica, 2009, 27, 1027-1038.	1.3	32
16	An Adjustable Steer-by-Wire Haptic-Interface Tracking Controller for Ground Vehicles. IEEE Transactions on Vehicular Technology, 2009, 58, 546-554.	3.9	61
17	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
18	Robust tracking control of an underactuated quadrotor aerial-robot based on a parametric uncertain model. , 2009, , .		33

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19	Nonlinear-Control Strategy for Advanced Vehicle Thermal-Management Systems. IEEE Transactions on Vehicular Technology, 2008, 57, 127-137.	3.9	68
20	Robust output tracking control of a surface vessel. , 2008, , .		4
21	Adaptive output tracking control of a surface vessel. , 2008, , .		5
22	Adaptive camera calibration with measurable position of fixed features. , 2008, , .		4
23	Position based structure from motion using a moving calibrated camera. , 2008, , .		5
24	Adaptive control of redundant robot manipulators with sub-task objectives. , 2008, , .		17
25	Teleoperation with kinematically redundant robot manipulators with sub-task objectives. , 2008, , .		4
26	Set-point navigation of a redundant robot in uncertain environments using finite range sensors. , 2008, , .		5
27	Vision-Based Leader/Follower Tracking for Nonholonomic Mobile Robots. Proceedings of the American Control Conference, 2007, , .	0.0	10
28	Adaptive Control of Flat MIMO Nonlinear Systems With Additive Disturbance. Proceedings of the American Control Conference, 2007, , .	0.0	4
29	A Neural Network Controller for Continuum Robots. IEEE Transactions on Robotics, 2007, 23, 1270-1277.	7.3	155
30	New dynamic models for planar extensible continuum robot manipulators. , 2007, , .		45
31	Ground vehicle steering systems: modelling, control, and analysis of hydraulic, electric and steer-by-wire configurations. International Journal of Vehicle Design, 2007, 44, 188.	0.1	24
32	Output Feedback Tracking Control of an Underactuated Quad-Rotor UAV. Proceedings of the American Control Conference, 2007, , .	0.0	28
33	Dynamic Modelling for Planar Extensible Continuum Robot Manipulators. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	60
34	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
35	Cooperative control of multiple vehicles with limited sensing. International Journal of Adaptive Control and Signal Processing, 2007, 21, 115-131.	2.3	5
36	Navigation function-based visual servo control. Automatica, 2007, 43, 1165-1177.	3.0	44

#	ARTICLE	IF	CITATIONS
37	Vision Assisted Autonomous Path Following for Unmanned Aerial Vehicles. , 2006, , .		12
38	UAV Tracking with a Monocular Camera. , 2006, , .		13
39	Identification of a moving object's velocity with a fixed camera. Automatica, 2005, 41, 553-562.	3.0	59
40	Adaptive position and orientation regulation for the camera-in-hand problem. Journal of Field Robotics, 2005, 22, 457-473.	0.7	7
41	Design and Implementation of the Robotic Platform. Journal of Intelligent and Robotic Systems: Theory and Applications, 2004, 39, 105-129.	2.0	13
42	An observer-based piezoelectric control of flexible Cartesian robot arms: theory and experiment. Control Engineering Practice, 2004, 12, 1041-1053.	3.2	72
43	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
44	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
45	Nonlinear Control of Engineering Systems. , 2003, , .		172
46	A Reduced-Order Observer Based Piezoelectric Control of Flexible Cartesian (SCARA) Robot Manipulator. , 2002, , 395.		2
47	Tension and Speed Regulation for Axially Moving Materials. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2000, 122, 445-453.	0.9	15
48	Lyapunov-Based Control of Mechanical Systems. , 2000, , .		203
49	Full-State Feedback Tracking Controllers. , 2000, , 53-86.		0
50	Output Feedback Tracking Controllers. , 2000, , 87-127.		0
51	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
52	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
53	Robust estimation and control of robotic manipulators. Robotica, 1995, 13, 223-231.	1.3	40
54	A New Class of Robust Control Laws for Tracking of Robots. International Journal of Robotics Research, 1994, 13, 355-363.	5.8	28

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55	Model Reference Robust Control of A Class of SISO Systems. , 1992, , .		7
56	Exponentially stable trajectory following of robotic manipulators under a class of adaptive controls. Automatica, 1992, 28, 579-586.	3.0	47
57	Robust Tracking Control of a Switched Reluctance Motor Turning and Inertial Load. , 1992, , .		33
58	Robust control of robots by the computed torque law. Systems and Control Letters, 1991, 16, 25-32.	1.3	56
59	A Continuous Control Mechanism for Uncertain Nonlinear Systems. Lecture Notes in Control and Information Sciences, 0, , 251-264.	0.6	46