

Charles James Taylor

List of Publications by Year in descending order

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74
papers

1,448
citations

393982

19
h-index

344852

36
g-index

86
all docs

86
docs citations

86
times ranked

1052
citing authors

#	ARTICLE	IF	CITATIONS
1	A Stacked Machine and Deep Learning-Based Approach for Analysing Electricity Theft in Smart Grids. IEEE Transactions on Smart Grid, 2022, 13, 1633-1644.	6.2	33
2	Time-Domain Implementation and Analyses of Multi-Motion Modes of Floating Structures. Journal of Marine Science and Engineering, 2022, 10, 662.	1.2	4
3	Adaptive treatment and robust control. Biometrics, 2021, 77, 223-236.	0.8	0
4	Implementation and Evaluation of a Semi-Autonomous Hydraulic Dual Manipulator for Cutting Pipework in Radiologically Active Environments. Robotics, 2021, 10, 62.	2.1	4
5	Big Data Analytics for Electricity Theft Detection in Smart Grids. , 2021, , .		4
6	Radiation testing of low cost, commercial off the shelf microcontroller board. Nuclear Engineering and Technology, 2021, 53, 3335-3343.	1.1	3
7	A Low-Cost and Semi-Autonomous Robotic Scanning System for Characterising Radiological Waste. Robotics, 2021, 10, 119.	2.1	1
8	Plant Leaf Position Estimation with Computer Vision. Sensors, 2020, 20, 5933.	2.1	0
9	Big Data Analytics Based Short Term Load Forecasting Model for Residential Buildings in Smart Grids. , 2020, , .		4
10	Heuristic Algorithm Based Optimal Power Flow Model Incorporating Stochastic Renewable Energy Sources. IEEE Access, 2020, 8, 148622-148643.	2.6	56
11	Robust and adaptive anticoagulant control. Journal of the Royal Statistical Society Series C: Applied Statistics, 2020, 69, 503-524.	0.5	2
12	Optimal Power Flow Solution with Uncertain RES using Augmented Grey Wolf Optimization. , 2020, , .		4
13	COTS vision system, radiation sensor and 6 DoF robot for use in identifying radiologically uncharacterised objects. , 2020, , .		1
14	Pulse shape discrimination performance of a pixelated plastic scintillator (EJ-299-34) for a coded-aperture based dual particle imaging system. Journal of Instrumentation, 2019, 14, P07017-P07017.	0.5	6
15	Compact Viscometer Prototype for Remote In Situ Analysis of Sludge. Sensors, 2019, 19, 3299.	2.1	0
16	Vision-Based Assisted Tele-Operation of a Dual-Arm Hydraulically Actuated Robot for Pipe Cutting and Grasping in Nuclear Environments. Robotics, 2019, 8, 42.	2.1	39
17	Gamma-ray modulation properties of tungsten coded apertures for a novel mixed-field imaging system. Journal of Instrumentation, 2019, 14, P02007-P02007.	0.5	6
18	A review of ground-based robotic systems for the characterization of nuclear environments. Progress in Nuclear Energy, 2019, 111, 109-124.	1.3	134

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19	Robustness evaluation and robust design for proportional-integral-plus control. International Journal of Control, 2019, 92, 2939-2951.	1.2	4
20	[Regular Paper] Model Predictive and Proportional Integral Control of Blood Clotting Speed Using Warfarin when Data are Missing. , 2018, , .		1
21	Heuristic Algorithm Based Dynamic Scheduling Model of Home Appliances in Smart Grid. , 2018, , .		4
22	State-dependent parameter model identification for inverse dead-zone control of a hydraulic manipulator. IFAC-PapersOnLine, 2018, 51, 126-131.	0.5	8
23	Computational Fluid Dynamics and Dataâ€‘Based Mechanistic Modelling of a Forced Ventilation Chamber. IFAC-PapersOnLine, 2018, 51, 263-268.	0.5	2
24	Towards a Cooperative Robotic System for Autonomous Pipe Cutting in Nuclear Decommissioning. , 2018, , .		14
25	[Regular Paper] Stochastic Non-minimal State Space Control with Application to Automated Drug Delivery. , 2018, , .		1
26	Alpha Particle Detection Using Alpha-Induced Air Radioluminescence: A Review and Future Prospects for Preliminary Radiological Characterisation for Nuclear Facilities Decommissioning. Sensors, 2018, 18, 1015.	2.1	18
27	Dealing with observational data in control. Annual Reviews in Control, 2018, 46, 94-106.	4.4	10
28	Nonâ€‘minimal stateâ€‘space polynomial form of the Kalman filter for a general noise model. Electronics Letters, 2018, 54, 204-206.	0.5	3
29	Modeling and analysis of secondary sources coupling for active sound field reduction in confined spaces. Mechanical Systems and Signal Processing, 2017, 95, 286-309.	4.4	7
30	Overview of wave energy converter devices and the development of a new multi-axis laboratory prototype. IFAC-PapersOnLine, 2017, 50, 15651-15656.	0.5	20
31	The Microphenotron: a robotic miniaturized plant phenotyping platform with diverse applications in chemical biology. Plant Methods, 2017, 13, 10.	1.9	18
32	Dynamic modelling and parameter estimation of a hydraulic robot manipulator using a multi-objective genetic algorithm. International Journal of Control, 2017, 90, 661-683.	1.2	57
33	Adaptive Biomedical Treatment and Robust Control 1 This work is supported by the UK Engineering & Physical Sciences Research Council (EPSRC) grant EP/M015637/1 (2015â€‘2018).. IFAC-PapersOnLine, 2017, 50, 12191-12196.	0.5	3
34	Feedback Controlâ€‘Based Inverse Kinematics Solvers for a Nuclear Decommissioning Robot. IFAC-PapersOnLine, 2016, 49, 177-184.	0.5	17
35	A genetic algorithm approach for parameter optimization of a 7DOF robotic manipulator. IFAC-PapersOnLine, 2016, 49, 1261-1266.	0.5	30
36	Development of a grow-cell test facility for research into sustainable controlled-environment agriculture. Biosystems Engineering, 2016, 150, 40-53.	1.9	18

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37	Partitioning of indoor airspace for multi-zone thermal modelling using hierarchical cluster analysis. , 2015, , .		2
38	Combined pole assignment and mean value engine model multivariable decoupling control. Transactions of the Institute of Measurement and Control, 2015, 37, 40-49.	1.1	1
39	Modelling seasonal and multi-annual variation in bank vole populations and nephropathia epidemica. Biosystems Engineering, 2014, 121, 25-37.	1.9	8
40	Control of Nonlinear Biological Systems by Non-minimal State Variable Feedback. Statistics in Biosciences, 2014, 6, 290-313.	0.6	9
41	Inverse kinematics for a redundant robotic manipulator used for nuclear decommissioning. , 2014, , .		4
42	A 2 dimensional Hammerstein model for heating and ventilation control of conceptual thermal zones. , 2014, , .		2
43	Micro-Climate Control in a Grow-Cell: System Development and Overview. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4417-4422.	0.4	3
44	State-dependent control of a hydraulically actuated nuclear decommissioning robot. Control Engineering Practice, 2013, 21, 1716-1725.	3.2	45
45	System Identification of mGluR-Dependent Long-Term Depression. Neural Computation, 2013, 25, 650-670.	1.3	5
46	State-dependent system identification for control of a hydraulically-actuated nuclear decommissioning robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1233-1238.	0.4	2
47	Recent Developments in the CAPTAIN Toolbox for Matlab. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1838-1843.	0.4	13
48	Practical experience with unified discrete and continuous-time, multi-input identification for control system design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 822-827.	0.4	2
49	Non-minimal state variable feedback decoupling control for multivariable continuous-time systems. International Journal of Control, 2012, 85, 722-734.	1.2	11
50	Linear and Nonlinear Non-minimal State Space Control System Design. , 2012, , 559-581.		3
51	State-dependent control of a hydraulically-actuated nuclear decommissioning robot. , 2012, , .		1
52	SSpace: A Flexible and General State Space Toolbox for MATLAB. , 2012, , 615-636.		2
53	Controllable forms for stabilising pole assignment design of generalised bilinear systems. Electronics Letters, 2011, 47, 437.	0.5	20
54	Challenges in Oil and Gas Subsea Production Systems: Control, Monitoring and Reliability - An Introduction. Measurement and Control, 2011, 44, 206-207.	0.9	1

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55	State dependent control of a robotic manipulator used for nuclear decommissioning activities. , 2010, , .		7
56	Multi-objective performance optimisation for model predictive control by goal attainment. International Journal of Control, 2010, 83, 1374-1386.	1.2	53
57	Stabilizing global mean surface temperature: A feedback control perspective. Environmental Modelling and Software, 2009, 24, 665-674.	1.9	23
58	Non-linear control by inputâ€“output state variable feedback pole assignment. International Journal of Control, 2009, 82, 1029-1044.	1.2	35
59	Non-minimal state-space model-based continuous-time model predictive control with constraints. International Journal of Control, 2009, 82, 1122-1137.	1.2	15
60	The Captain Toolbox for Matlab. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 758-763.	0.4	6
61	Development of an automated verticality alignment system for a vibro-lance. Automation in Construction, 2008, 17, 645-655.	4.8	26
62	Real-time recognition of sick pig cough sounds. Computers and Electronics in Agriculture, 2008, 63, 207-214.	3.7	72
63	Non-minimal State Dependent Riccati Equation and Pole Assignment Control of Nonlinear Systems. , 2008, , .		0
64	Time-series analysis for online recognition and localization of sick pig (Sus scrofa) cough sounds. Journal of the Acoustical Society of America, 2008, 124, 3803-3809.	0.5	20
65	Environmental time series analysis and forecasting with the Captain toolbox. Environmental Modelling and Software, 2007, 22, 797-814.	1.9	226
66	Modelling of an hydraulic excavator using simplified refined instrumental variable (SRIV) algorithm. Journal of Control Theory and Applications, 2007, 5, 391-396.	0.8	12
67	Environmental Test Chamber for the Support of Learning and Teaching in Intelligent Control. International Journal of Electrical Engineering and Education, 2004, 41, 375-387.	0.4	10
68	Proportional-integral-plus (PIP) control of ventilation rate in agricultural buildings. Control Engineering Practice, 2004, 12, 225-233.	3.2	27
69	Macroscopic traffic flow modelling and ramp metering control using Matlab/Simulink. Environmental Modelling and Software, 2004, 19, 975-988.	1.9	14
70	Design and application of PIP controllers: robust control of the IFAC93 benchmark. Transactions of the Institute of Measurement and Control, 2001, 23, 183-200.	1.1	19
71	Modelling and Proportional-integral-plus Control Design for Free Air Carbon Dioxide Enrichment systems. Biosystems Engineering, 2000, 75, 365-374.	0.4	16
72	State space control system design based on non-minimal state-variable feedback: Further generalization and unification results. International Journal of Control, 2000, 73, 1329-1345.	1.2	108

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73	An analysis of the dynamic response of stomatal conductance to a reduction in humidity over leaves of <i>Cedrella odorata</i> . <i>Plant, Cell and Environment</i> , 1999, 22, 913-924.	2.8	27
74	Modelling and PIP control design for open-top chambers. <i>Control Engineering Practice</i> , 1998, 6, 1209-1216.	3.2	25