Andrew G Alleyne

List of Publications by Year
in descending order

294 papers	7,923 citations	76196 40 h-index	60497 81 g-index
298 all docs	298 docs citations	298 times ranked	5745 citing authors

#	Article	IF	Citations
1	Robust Design and Evaluation of a Novel Modular Origami-Enabled Mobile Robot (OSCAR). Journal of Mechanisms and Robotics, 2023, 15, .	1.5	2
2	A Series-Hierarchical Iterative Learning Controller for Multi-Stage Systems. , 2022, 6, 914-919.		2
3	Control as an Enabler for Electrified Mobility. Annual Review of Control, Robotics, and Autonomous Systems, 2022, 5, .	7.5	1
4	Graph-Based Dynamic Modeling of Two-Phase Heat Exchangers in Vapor Compression Systems. International Journal of Refrigeration, 2022, 137, 244-256.	1.8	5
5	Mission and Shape Optimization of a HALE Aircraft including Transient Power and Thermal Constraints. , 2022, , .		2
6	Framework for integrated plant and control optimization of electro-thermal systems: An energy storage system case study. Energy, 2022, 258, 124855.	4.5	7
7	An Improved Approach to Iterative Learning Control for Uncertain Systems. IEEE Transactions on Control Systems Technology, 2021, 29, 546-555.	3.2	20
8	Nanostructured jumping-droplet thermal rectifier. Physical Review E, 2021, 103, 023110.	0.8	24
9	Process monitoring and control strategies in extrusion-based bioprinting to fabricate spatially graded structures. Bioprinting, 2021, 21, e00126.	2.9	20
10	Plant and Controller Optimization for Power and Energy Systems With Model Predictive Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, 143, .	0.9	8
11	A Multi-Input Single-Output iterative learning control for improved material placement in extrusion-based additive manufacturing. Control Engineering Practice, 2021, 111, 104783.	3.2	14
12	Graphene-based electromechanical thermal switches. 2D Materials, 2021, 8, 035055.	2.0	4
13	Hierarchical model-based predictive controller for a hybrid UAV powertrain. Control Engineering Practice, 2021, 115, 104883.	3.2	10
14	Hierarchical Control of Aircraft Electro-Thermal Systems. IEEE Transactions on Control Systems Technology, 2020, 28, 1218-1232.	3.2	26
15	Direct process feedback in extrusion-based 3D bioprinting. Biofabrication, 2020, 12, 015017.	3.7	30
16	Hierarchical Hybrid MPC for Management of Distributed Phase Change Thermal Energy Storage. , 2020, , .		7
17	Experimental Model and Controller Validation for a Series Hybrid Unmanned Aerial Vehicle. , 2020, , .		5
18	Extremum seeking control of battery powered vapor compression systems for commercial vehicles. International Journal of Refrigeration, 2020, 115, 63-72.	1.8	6

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19	1D and 2D error assessment and correction for extrusion-based bioprinting using process sensing and control strategies. Biofabrication, 2020, 12, 045023.	3.7	22
20	Optimal Sensor Placement Methods in Active High Power Density Electronic Systems With Experimental Validation. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	1.7	8
21	A Novel Framework for Simultaneous Topology and Sizing Optimization of Complex, Multi-Domain Systems-of-Systems. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	1.7	9
22	Multilevel Hierarchical Estimation for Thermal Management Systems of Electrified Vehicles With Experimental Validation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	0.9	2
23	Low-Complexity Hierarchical Control for Distributed Shopping Center HVAC. IFAC-PapersOnLine, 2020, 53, 6597-6603.	0.5	0
24	An Improved Iterative Learning Control for Uncertain Multi-Axis Systems. , 2020, , .		1
25	Graph-Based Design and Control Optimization of a Hybrid Electrical Energy Storage System. , 2020, , .		3
26	Multi-Level Hierarchical Estimation for Thermal Management Systems of Electrified Vehicles. , 2020, , .		0
27	Numerical model for liquid-to-liquid heat pumps implementing switching mode. Applied Thermal Engineering, 2019, 160, 114054.	3.0	2
28	Innentitelbild: Selective Autonomous Molecular Transport and Collection by Hydrogelâ€Embedded Supramolecular Chemical Gradients (Angew. Chem. 50/2019). Angewandte Chemie, 2019, 131, 18046-18046.	1.6	0
29	Selective Autonomous Molecular Transport and Collection by Hydrogelâ€Embedded Supramolecular Chemical Gradients. Angewandte Chemie, 2019, 131, 18333-18338.	1.6	6
30	Selective Autonomous Molecular Transport and Collection by Hydrogelâ€Embedded Supramolecular Chemical Gradients. Angewandte Chemie - International Edition, 2019, 58, 18165-18170.	7.2	9
31	Optimal Flow Control and Single Split Architecture Exploration for Fluid-Based Thermal Management. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	1.7	15
32	Fault Detection and Isolation for Complex Thermal Management Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	3
33	Model-based temperature estimation of power electronics systems. Control Engineering Practice, 2019, 85, 206-215.	3.2	7
34	Cooperativity and Hierarchical MPC of State-Constrained Switched Power Flow Systems. , 2019, , .		2
35	Graph-Based Electro-Mechanical Modeling of a Hybrid Unmanned Aerial Vehicle for Real-Time Applications. , 2019, , .		4
36	Path Following for the Soft Origami Crawling Robot. , 2019, , .		2

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37	Hierarchical Estimation for Complex Multi-Domain Dynamical Systems. , 2019, , .		0
38	A Hybrid Electro-Thermal Energy Storage System for High Ramp Rate Power Applications. , 2019, , .		1
39	Dynamical Graph Models of Aircraft Electrical, Thermal, and Turbomachinery Components. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	24
40	Multi-zone Temperature Modeling and Control. Advances in Industrial Control, 2018, , 139-166.	0.4	2
41	HVAC System Modeling and Control: Vapor Compression System Modeling and Control. Advances in Industrial Control, 2018, , 73-103.	0.4	5
42	Power Density as the Key Enabler for Electrified Mobility. Polytechnica, 2018, 1, 10-18.	2.1	4
43	Controller Design for Two-Input Single-Output Systems Exploiting Plant/Controller Alignment. , 2018, , .		0
44	Electro-Thermal Graph-Based Modeling for Hierarchical Control with Application to an Electric Vehicle. , 2018, , .		8
45	Hierarchical Control for Electro-Thermal Power Management of an Electric Vehicle Powertrain. , 2018, , .		8
46	Improved Cross-Coupled Iterative Learning Control for Contouring NURBS Curves. , 2018, , .		0
47	Optimal Flow Control and Single Split Architecture Exploration for Fluid-Based Thermal Management. , 2018, , .		5
48	Model Predictive Control of a Pumped Two-Phase Cooling System With Microchannel Heat Exchangers. , 2018, , .		0
49	Passivity and Decentralized MPC of Switched Graph-Based Power Flow Systems. , 2018, , .		11
50	Experimental Validation of Graph-Based Hierarchical Control for Thermal Management. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	24
51	Directed Molecular Collection by Eâ€jet Printed Microscale Chemical Potential Wells in Hydrogel Films. Advanced Materials, 2018, 30, 1803140.	11.1	8
52	Robust hierarchical model predictive control of graph-based power flow systems. Automatica, 2018, 96, 127-133.	3.0	11
53	Two-Level Hierarchical Mission-Based Model Predictive Control. , 2018, , .		7
54	Integrated Modeling for Battery Electric Vehicle Transcritical Thermal Management System. , 2018, , .		1

#	Article	IF	Citations
55	Fault Detection and Isolation for Complex Thermal Management Systems. , 2018, , .		0
56	Dynamic Thermal Management for Aerospace Technology: Review and Outlook. Journal of Thermophysics and Heat Transfer, 2017, 31, 86-98.	0.9	45
57	Autonomous Vehicle Control: A Nonconvex Approach for Obstacle Avoidance. IEEE Transactions on Control Systems Technology, 2017, 25, 469-484.	3.2	115
58	Stability of decentralized model predictive control of graph-based power flow systems via passivity. Automatica, 2017, 82, 29-34.	3.0	27
59	Mitigating power systems variability in more electric aircraft utilizing power electronics implemented dynamic thermal storage. , 2017, , .		4
60	Hardware-in-the-Loop Validation of Advanced Fuel Thermal Management Control. Journal of Thermophysics and Heat Transfer, 2017, 31, 901-909.	0.9	16
61	A decentralized algorithm for control of autonomous agents coupled by feasibility constraints. , 2017, , .		1
62	Graph-based hierarchical control of thermal-fluid power flow systems. , 2017, , .		4
63	Time-varying Newton based extremum seeking for optimization of vapor compression systems. , 2017, , .		2
64	A Graph-Based Approach for Dynamic Compressor Modeling in Vapor Compression Systems. , 2017, , .		1
65	Easy-to-Use 3D Printer for Fabrication of Biological Scaffolds. , 2017, , .		0
66	An Improved Dynamic Friction Model Using a Data-Based Approach. , 2017, , .		0
67	Optimal Sensor Placement Methods for Active Power Electronic Systems. , 2017, , .		1
68	A Metameric Crawling Robot Enabled by Origami and Smart Materials. , 2017, , .		4
69	Dynamic temperature estimation of power electronics systems. , 2017, , .		4
70	ACC tutorial session proposal thermal and HVAC control systems: Challenges and opportunities. , 2017, , .		0
71	A Simulation and Experimental Environment for Teaching Chemical Reaction Process Dynamics and Control. IFAC-PapersOnLine, 2017, 50, 15692-15697.	0.5	4
72	Experimental Validation of Graph-Based Modeling for Thermal Fluid Power Flow Systems. , 2016, , .		19

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73	20x-Real time modeling and simulation of more electric aircraft thermally integrated electrical power systems. , 2016, , .		7
74	Iterative Learning Identification/Iterative Learning Control for Linear Time-Varying Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	8
75	Event-based hierarchical control for power flow in vehicle systems. , 2016, , .		0
76	Hybrid model predictive control of multi-compressor vapor compression systems. , 2016, , .		2
77	Switched linear control for refrigerant superheat recovery in vapor compression systems. Control Engineering Practice, 2016, 57, 142-156.	3.2	4
78	Switched linear control of vapor compression systems under highly transient conditions. , 2016, , .		1
79	Combining self-optimizing control and extremum seeking for online optimization with application to Vapor Compression cycles. , 2016, , .		1
80	Net shape fabrication of calcium phosphate scaffolds with multiple material domains. Biofabrication, 2016, 8, 015005.	3.7	16
81	Iterative Learning Identification for Linear Time-Varying Systems. IEEE Transactions on Control Systems Technology, 2016, 24, 310-317.	3.2	20
82	Feedback shape control for deployable mesh reflectors using gain scheduling method. Acta Astronautica, 2016, 121, 241-255.	1.7	20
83	Printing: Mechanisms, Capabilities, and Applications of High‑Resolution Electrohydrodynamic Jet Printing (Small 34/2015). Small, 2015, 11, 4412-4412.	5.2	6
84	A Cooperative Driving NLMPC for Real Time Collision Avoidance. , 2015, , .		0
85	Dynamic Modeling of Heat Exchangers With Humidity and Condensation. , 2015, , .		0
86	A Model Predictive Framework for Thermal Management of Aircraft. , 2015, , .		4
87	Polarization controlled output of electrohydrodynamic jet printed quantum dot embedded photonic crystals for display applications. , 2015, , .		0
88	Mechanisms, Capabilities, and Applications of High‑Resolution Electrohydrodynamic Jet Printing. Small, 2015, 11, 4237-4266.	5.2	437
89	PowerFlow: A Toolbox for Modeling and Simulation of Aircraft Systems. , 2015, , .		6
90	NLMPC for Real Time Path Following and Collision Avoidance. SAE International Journal of Passenger Cars - Electronic and Electrical Systems, 2015, 8, 401-405.	0.3	8

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91	Hierarchical Control of Multi-Domain Power Flow in Mobile Systems: Part I â€" Framework Development and Demonstration. , 2015, , .		8
92	Dynamic Thermal Management for Aerospace Technology: A Review and Outlook. , 2015, , .		2
93	A semi-continuous Roll-to-Roll (R2R) electrohydrodynamic jet printing system. Mechatronics, 2015, 31, 243-254.	2.0	19
94	A comparison between finite volume and switched moving boundary approaches for dynamic vapor compression system modeling. International Journal of Refrigeration, 2015, 53, 101-114.	1.8	54
95	Exergy-based optimal control of a vapor compression system. Energy Conversion and Management, 2015, 92, 353-365.	4.4	46
96	Model predictive control of hybrid thermal energy systems inÂtransport refrigeration. Applied Thermal Engineering, 2015, 82, 264-280.	3.0	24
97	Comparative Study of Energy Management Strategies for Hydraulic Hybrids. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	9
98	Learning-Based Precool Algorithms for Exploiting Foodstuff as Thermal Energy Reserve. IEEE Transactions on Control Systems Technology, 2015, 23, 557-569.	3.2	10
99	Polarized quantum dot emission in electrohydrodynamic jet printed photonic crystals. Applied Physics Letters, 2015, 107, .	1.5	13
100	Wiener Modeling of a Closed Loop Vapor Compression System for Extremum Seeking Controller Design. , 2015, , .		1
101	Hierarchical Control of Multi-Domain Power Flow in Mobile Systems: Part II â€" Aircraft Application. , 2015, , .		4
102	Model Accuracy of Variable Fidelity Vapor Cycle System Simulations. , 2014, , .		10
103	Transient Thermal Systems: Dynamics and Control. Mechanical Engineering, 2014, 136, S4-S12.	0.0	0
104	Bumpless Transfer Filter for Exogenous Feedforward Signals. IEEE Transactions on Control Systems Technology, 2014, 22, 1581-1588.	3.2	19
105	Switched-fidelity modeling and optimization for multi-physics dynamical systems. , 2014, , .		2
106	Two Degree of Freedom Control Synthesis With Applications to Agricultural Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	4
107	High Resolution Digital Elevation Modeling With On-Vehicle Sensors. , 2014, , .		0
108	Integrated design and control for header height control of combine harvesters. , 2014, , .		0

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109	Iterative Learning Control for image based visual servoing applications. , 2014, , .		1
110	Scalable model predictive control for multi-evaporator vapor compression systems. , 2014, , .		4
111	Partially decentralized control of large-scale variable-refrigerant-flow systems in buildings. Journal of Process Control, 2014, 24, 798-819.	1.7	22
112	Optimal subcooling in vapor compression systems via extremum seeking control: Theory and experiments. International Journal of Refrigeration, 2014, 43, 14-25.	1.8	61
113	Decentralized predictive thermal control for buildings. Journal of Process Control, 2014, 24, 820-835.	1.7	33
114	Photonic crystal enhancement of a homogeneous fluorescent assay using submicron fluid channels fabricated by Eâ€jet patterning. Journal of Biophotonics, 2014, 7, 266-275.	1.1	17
115	Iterative Learning Identification Applied to Automated Off-Highway Vehicle. IEEE Transactions on Control Systems Technology, 2014, 22, 331-337.	3.2	15
116	Electrohydrodynamic jet printing of micro-optical devices. Manufacturing Letters, 2014, 2, 4-7.	1.1	33
117	A robust two degree-of-freedom controller for systems with both model and measurement uncertainty. Control Engineering Practice, 2014, 25, 55-65.	3.2	7
118	A computationally efficient norm optimal iterative learning control approach for LTV systems. Automatica, 2014, 50, 141-148.	3.0	36
119	Block Copolymer Assembly on Nanoscale Patterns of Polymer Brushes Formed by Electrohydrodynamic Jet Printing. ACS Nano, 2014, 8, 6606-6613.	7.3	52
120	A Cross-Coupled Non-lifted Norm Optimal Iterative Learning Control Approach with Application to a Multi-axis Robotic Testbed. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2046-2051.	0.4	7
121	Vision Based Iterative Learning Control for a Roll to Roll Micro/nano-manufacturing System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7202-7207.	0.4	1
122	Robust Two Degree-Of-Freedom Control for MIMO System with Both Model and Signal Uncertainties. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9313-9320.	0.4	5
123	Variable Fidelity Modeling in Closed Loop Dynamical Systems. , 2014, , .		2
124	Hierarchical patterns of three-dimensional block-copolymer films formed by electrohydrodynamic jet printing and self-assembly. Nature Nanotechnology, 2013, 8, 667-675.	15.6	157
125	Optimal Partitioning for the Decentralized Thermal Control of Buildings. IEEE Transactions on Control Systems Technology, 2013, 21, 1756-1770.	3.2	23
126	A learning based precool algorithm for utilization of foodstuff as thermal energy storage. , 2013, , .		4

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127	Fundamental Limits in Combine Harvester Header Height Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, 345031-345038.	0.9	28
128	Optimal Subcooling in Vapor Compression Systems via Extremum Seeking Control. , 2013, , .		1
129	A robust two degree-of-freedom controller for systems with delay. , 2013, , .		0
130	Time-varying norm optimal iterative learning identification. , 2013, , .		1
131	Norm Optimal Iterative Learning Control for a Roll to Roll nano/micro-manufacturing system. , 2013, , .		4
132	Decentralized controller analysis and design for multi-evaporator vapor compression systems. , 2013, , .		7
133	Motion control for magnetic micro-scale manipulation. , 2013, , .		1
134	Learning/repetitive control for building systems with nearly periodic disturbances. , 2013, , .		5
135	Enery management in Mobile Hydraulics. Mechanical Engineering, 2013, 135, S4-S6.	0.0	0
136	Modeling and optimization of a combined cooling, heating and power plant system. , 2012, , .		29
137	An energy management strategy for a hydraulic hybrid vehicle. , 2012, , .		5
138	Stability analysis for decentralized control of multi-evaporator vapor-compression cycle systems. , 2012, , .		2
139	High Throughput Electrohydrodynamic-Jet Printing System. , 2012, , .		3
140	Sensitivity Analysis of Energy Management Strategies for Hydraulic Hybrid Vehicles. , 2012, , .		0
141	Two Degrees of Freedom Control for Combine Harvester Header Height Control. , 2012, , .		4
142	Norm Optimal Iterative Learning Identification for Linear Time-Varying Systems. , 2012, , .		4
143	LMI Control Design for Nonlinear Vapor Compression Cycle Systems. , 2012, , .		4
144	Near-Net Shape Structures Fabricated by Micro-Robotic Deposition Using Precision Extrusion Control. , 2012, , .		0

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145	Decentralized architectures for thermal control of buildings. , 2012, , .		6
146	Adaptive Model Predictive Control of an SCR Catalytic Converter System for Automotive Applications. IEEE Transactions on Control Systems Technology, 2012, 20, 1533-1547.	3.2	52
147	A multimaterial electrohydrodynamic jet (E-jet) printing system. Journal of Micromechanics and Microengineering, 2012, 22, 045008.	1.5	74
148	A framework for the optimization of integrated energy systems. Applied Thermal Engineering, 2012, 48, 495-505.	3.0	19
149	Functional Protein Microarrays by Electrohydrodynamic Jet Printing. Analytical Chemistry, 2012, 84, 10012-10018.	3.2	64
150	Optimal Energy Use in a Light Weight Hydraulic Hybrid Passenger Vehicle. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	23
151	A Dynamic Modeling Toolbox for Air Vehicle Vapor Cycle Systems. , 2012, , .		17
152	High Precision Electrohydrodynamic Printing of Polymer Onto Microcantilever Sensors. IEEE Sensors Journal, 2011, 11, 2246-2253.	2.4	33
153	Semi-active Iterative Learning Control. , 2011, , .		0
154	Optimal control architecture selection for thermal control of buildings. , 2011, , .		10
155	Thermodynamics-based optimization and control of vapor-compression cycle operation: Optimization criteria. , 2011, , .		3
156	Cross-coupled iterative learning control of systems with dissimilar dynamics: design and implementation. International Journal of Control, 2011, 84, 1223-1233.	1.2	40
157	Basis Task Approach to Iterative Learning Control With Applications to Micro-Robotic Deposition. IEEE Transactions on Control Systems Technology, 2011, 19, 1138-1148.	3.2	94
158	A Norm Optimal Approach to Time-Varying ILC With Application to a Multi-Axis Robotic Testbed. IEEE Transactions on Control Systems Technology, 2011, 19, 166-180.	3.2	130
159	Optimal Control Architecture Selection for Thermal Control of Buildings. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3090-3095.	0.4	0
160	Thermodynamics-Based Optimization and Control of Vapor-Compression Cycle Operation: Control Synthesis. , 2011, , .		4
161	Control of high-resolution electrohydrodynamic jet printing. Control Engineering Practice, 2011, 19, 1266-1273.	3.2	71
162	Refrigerant mass migration modeling and simulation for air conditioning systems. Applied Thermal Engineering, 2011, 31, 1770-1779.	3.0	19

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163	Fundamental limits in combine harvester header height control. , 2011, , .		1
164	Bumpless transfer for a flexible adaptation of Iterative Learning Control. , 2011, , .		7
165	A model predictive control approach for a parallel hydraulic hybrid powertrain. , 2011, , .		17
166	Iterative learning identification for an automated off-highway vehicle. , 2011, , .		4
167	Model Predictive Control of an Electro-Hydraulic Powertrain With Energy Storage. , 2011, , .		1
168	Micropositioning of a Multimaterial Electrohydrodynamic Jet Deposition System Using Vision Feedback. , 2011, , .		1
169	Design and Manufacture of Combinatorial Calcium Phosphate Bone Scaffolds. Journal of Biomechanical Engineering, 2011, 133, 101001.	0.6	15
170	Comparison of wind turbine operating transitions through the use of iterative learning control. , 2011, , .		12
171	Integrated Plant and Controller Design of a Combine Harvester System. , 2011, , .		4
172	Scheduled Feedforward Control of Superheat Through Hardware-in-the-Loop Load Emulation. , 2010, , .		0
173	A desktop electrohydrodynamic jet printing system. Mechatronics, 2010, 20, 611-616.	2.0	73
174	A dynamic model of a vapor compression cycle with shut-down and start-up operations. International Journal of Refrigeration, 2010, 33, 538-552.	1.8	136
175	Optimal onâ€"off control of refrigerated transport systems. Control Engineering Practice, 2010, 18, 1406-1417.	3.2	35
176	Control of high-resolution Electrohydrodynamic jet printing. , 2010, , .		5
177	Predictive control of complex hydronic systems. , 2010, , .		12
178	Decentralized Feedback Structures of a Vapor Compression Cycle System. IEEE Transactions on Control Systems Technology, 2010, 18, 185-193.	3.2	27
179	Precision coordination and motion control of multiple systems via iterative learning control. , 2010, , .		9
180	Optimal on-off control of an air conditioning and refrigeration system. , 2010, , .		9

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181	Gain Scheduled Control of an Air Conditioning System Using the Youla Parameterization. IEEE Transactions on Control Systems Technology, 2010, 18, 1216-1225.	3.2	42
182	High precision polymer deposition onto microcantilever sensors using electrohydrodynamic printing. , 2010, , .		2
183	Decoupled feedforward control for an air-conditioning and refrigeration system. , 2010, , .		9
184	Header Height Control of a Combine Harvester System. , 2010, , .		7
185	Predictive Energy Management for Parallel Hydraulic Hybrid Passenger Vehicle. , 2010, , .		11
186	Combined $H _{infty}$-Feedback Control and Iterative Learning Control Design With Application to Nanopositioning Systems. IEEE Transactions on Control Systems Technology, 2010, 18, 336-351.	3.2	72
187	A numerical method for determining monotonicity and convergence rate in iterative learning control. International Journal of Control, 2010, 83, 219-226.	1.2	22
188	High-speed and drop-on-demand printing with a pulsed electrohydrodynamic jet. Journal of Micromechanics and Microengineering, 2010, 20, 095026.	1.5	198
189	Nanoscale, Electrified Liquid Jets for High-Resolution Printing of Charge. Nano Letters, 2010, 10, 584-591.	4.5	120
190	Stochastic iterative learning control design for nonrepetitive events. , 2010, , .		2
191	A Robust Controller Interpolation Design Technique. IEEE Transactions on Control Systems Technology, 2010, 18, 1-10.	3.2	38
192	Robust gain-scheduled control. , 2010, , .		5
193	Control of Unstable Oscillations in Flows. The Electrical Engineering Handbook, 2010, , 34-1-34-20.	0.2	0
194	Load-Predictive Temperature Control of an Air Conditioning and Refrigeration System. , 2009, , .		1
195	Dimensionless Design of Variable Displacement Pumps. , 2009, , .		1
196	A Switched, Controls-Oriented SCR Catalyst Model Using On-Line Eigenvalue Estimation. , 2009, , .		11
197	A full dynamic model of a HVAC vapor compression cycle interacting with a dynamic environment. , 2009, , .		5
198	Robust controller interpolation via convex optimization. , 2009, , .		1

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199	Iterative Learning Control using a basis signal library. , 2009, , .		5
200	Comparison of SISO and MIMO control techniques for a diagonally dominant vapor compression system. , 2009, , .		4
201	Norm optimal ILC with time-varying weighting matrices. , 2009, , .		6
202	An anti-windup technique for LMI regions. Automatica, 2009, 45, 2344-2349.	3.0	16
203	Robust Wireless Servo Control Using a Discrete-Time Uncertain Markovian Jump Linear Model. IEEE Transactions on Control Systems Technology, 2009, 17, 733-742.	3.2	33
204	Modeling of Complex Hydronic Systems for Energy Efficient Operation. , 2009, , .		4
205	Cross Coupled Iterative Learning Control of Dissimilar Dynamical Systems. , 2009, , .		2
206	Modeling and Control of Interconnected Dimensionless Dynamic Systems. , 2009, , .		2
207	An advanced nonlinear switched heat exchanger model for vapor compression cycles using the moving-boundary method. International Journal of Refrigeration, 2008, 31, 1253-1264.	1.8	139
208	Dimensional analysis for robust control of planar vehicle dynamics. International Journal of Robust and Nonlinear Control, 2008, 18, 587-616.	2.1	1
209	Micro-robotic deposition guidelines by a design of experiments approach to maximize fabrication reliability for the bone scaffold application. Acta Biomaterialia, 2008, 4, 897-912.	4.1	32
210	Monotonic Convergence of Iterative Learning Control for Uncertain Systems Using a Time-Varying Filter. IEEE Transactions on Automatic Control, 2008, 53, 582-585.	3.6	51
211	A Cross-Coupled Iterative Learning Control Design for Precision Motion Control. IEEE Transactions on Control Systems Technology, 2008, 16, 1218-1231.	3.2	181
212	Robust Controller Interpolation via Parameterization. , 2008, , .		15
213	An Analysis Framework for Evaluating Dropout Compensation Strategies in Wireless Servo Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2008, 130, .	0.9	8
214	Optimizing Learning Convergence Speed and Converged Error for Precision Motion Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2008, 130, .	0.9	8
215	Moving-Boundary Heat Exchanger Models With Variable Outlet Phase. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2008, 130, .	0.9	38
216	An anti-windup technique for LMI regions with applications to a fluid power system. , 2008, , .		0

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217	Norm optimal Cross-Coupled Iterative Learning Control. , 2008, , .		22
218	High bandwidth control of precision motion instrumentation. Review of Scientific Instruments, 2008, 79, 103704.	0.6	16
219	Design of a linear time-varying cross-coupled Iterative Learning Controller. , 2008, , .		0
220	Iterative Learning Control for robotic deposition using machine vision. , 2008, , .		19
221	A switched system model for heat exchangers using a moving boundary method. , 2008, , .		2
222	An Improved Method for Calculating Iterative Learning Control Convergence Rate. , 2008, , .		0
223	Portable Pneumatic Power-Harvesting Ankle-Foot-Orthosis. , 2008, , .		1
224	Feedback Frameworks for Active Suspensions With Electrohydraulic Actuator Dynamics. , 2008, , .		0
225	OPTIMIZATION OF A PASSENGER HYDRAULIC HYBRID VEHICLE TO IMPROVE FUEL ECONOMY. Proceedings of the JFPS International Symposium on Fluid Power, 2008, 2008, 143-148.	0.1	15
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