

Frank L Lewis

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

340 papers	20,609 citations	69 h-index	138 g-index
390 ext. papers	26,911 ext. citations	5.4 avg, IF	7.73 L-index

#	Paper	IF	Citations
340	Reinforcement learning and adaptive dynamic programming for feedback control. <i>IEEE Circuits and Systems Magazine</i> , 2009 , 9, 32-50	3.2	749
339	Online actor-critic algorithm to solve the continuous-time infinite horizon optimal control problem. <i>Automatica</i> , 2010 , 46, 878-888	5.7	726
338	2012 ,		717
337	Multilayer neural-net robot controller with guaranteed tracking performance. <i>IEEE Transactions on Neural Networks</i> , 1996 , 7, 388-99		689
336	Nearly optimal control laws for nonlinear systems with saturating actuators using a neural network HJB approach. <i>Automatica</i> , 2005 , 41, 779-791	5.7	683
335	Discrete-time nonlinear HJB solution using approximate dynamic programming: convergence proof. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2008 , 38, 943-9		592
334	Adaptive cooperative tracking control of higher-order nonlinear systems with unknown dynamics. <i>Automatica</i> , 2012 , 48, 1432-1439	5.7	575
333	Optimal Design for Synchronization of Cooperative Systems: State Feedback, Observer and Output Feedback. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 1948-1952	5.9	566
332	. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 3462-3470	7	473
331	Reinforcement Learning and Feedback Control: Using Natural Decision Methods to Design Optimal Adaptive Controllers. <i>IEEE Control Systems</i> , 2012 , 32, 76-105	2.9	462
330	Distributed Cooperative Control of DC Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 2288-2303	4.56	456
329	Distributed adaptive control for synchronization of unknown nonlinear networked systems. <i>Automatica</i> , 2010 , 46, 2014-2021	5.7	426
328	Neural net robot controller with guaranteed tracking performance. <i>IEEE Transactions on Neural Networks</i> , 1995 , 6, 703-15		383
327	Lyapunov, Adaptive, and Optimal Design Techniques for Cooperative Systems on Directed Communication Graphs. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 3026-3041	8.9	370
326	Neural network approach to continuous-time direct adaptive optimal control for partially unknown nonlinear systems. <i>Neural Networks</i> , 2009 , 22, 237-46	9.1	359
325	Secondary control of microgrids based on distributed cooperative control of multi-agent systems. <i>IET Generation, Transmission and Distribution</i> , 2013 , 7, 822-831	2.5	299
324	Model-free Q-learning designs for linear discrete-time zero-sum games with application to H-infinity control. <i>Automatica</i> , 2007 , 43, 473-481	5.7	289

323	Optimal tracking control of nonlinear partially-unknown constrained-input systems using integral reinforcement learning. <i>Automatica</i> , 2014 , 50, 1780-1792	5.7	282
322	Cooperative Control of Multi-Agent Systems. <i>Communications and Control Engineering</i> , 2014 ,	0.6	281
321	Reinforcement learning for partially observable dynamic processes: adaptive dynamic programming using measured output data. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 14-25		275
320	Adaptive optimal control of unknown constrained-input systems using policy iteration and neural networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013 , 24, 1513-25	10.3	271
319	Integral reinforcement learning and experience replay for adaptive optimal control of partially-unknown constrained-input continuous-time systems. <i>Automatica</i> , 2014 , 50, 193-202	5.7	263
318	Multi-agent differential graphical games: Online adaptive learning solution for synchronization with optimality. <i>Automatica</i> , 2012 , 48, 1598-1611	5.7	263
317	Optimal and Autonomous Control Using Reinforcement Learning: A Survey. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 2042-2062	10.3	259
316	Multi-player non-zero-sum games: Online adaptive learning solution of coupled Hamilton-Jacobi equations. <i>Automatica</i> , 2011 , 47, 1556-1569	5.7	256
315	Control of a nonholomic mobile robot: Backstepping kinematics into dynamics. <i>Journal of Field Robotics</i> , 1997 , 14, 149-163		256
314	Reinforcement Q-learning for optimal tracking control of linear discrete-time systems with unknown dynamics. <i>Automatica</i> , 2014 , 50, 1167-1175	5.7	236
313	H _∞ tracking control of completely unknown continuous-time systems via off-policy reinforcement learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 2550-62	10.3	225
312	Backstepping Approach for Controlling a Quadrotor Using Lagrange Form Dynamics. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2009 , 56, 127-151	2.9	220
311	Robot Manipulator Control		220
310	2015 ,		211
309	Cooperative adaptive control for synchronization of second-order systems with unknown nonlinearities. <i>International Journal of Robust and Nonlinear Control</i> , 2011 , 21, 1509-1524	3.6	203
308	Linear Quadratic Tracking Control of Partially-Unknown Continuous-Time Systems Using Reinforcement Learning. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 3051-3056	5.9	201
307	. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 1600-1617	7.2	187
306	Finite-time distributed consensus via binary control protocols. <i>Automatica</i> , 2011 , 47, 1962-1968	5.7	185

305	Cooperative Optimal Control for Multi-Agent Systems on Directed Graph Topologies. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 769-774	5.9	179
304	The adaptive distributed observer approach to the cooperative output regulation of linear multi-agent systems. <i>Automatica</i> , 2017 , 75, 299-305	5.7	174
303	. <i>IEEE Transactions on Industrial Informatics</i> , 2014 , 10, 1785-1798	11.9	151
302	Actor-critic-based optimal tracking for partially unknown nonlinear discrete-time systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 140-51	10.3	145
301	A Distributed Auction-Based Algorithm for the Nonconvex Economic Dispatch Problem. <i>IEEE Transactions on Industrial Informatics</i> , 2014 , 10, 1124-1132	11.9	133
300	Multi-agent discrete-time graphical games and reinforcement learning solutions. <i>Automatica</i> , 2014 , 50, 3038-3053	5.7	132
299	Policy Iterations on the Hamilton-Jacobi-Bellman Equation for H_{∞} State Feedback Control With Input Saturation. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 1989-1995	5.9	131
298	Off-Policy Actor-Critic Structure for Optimal Control of Unknown Systems With Disturbances. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 1041-50	10.2	127
297	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 5988-5997	8.9	120
296	On constructing Lyapunov functions for multi-agent systems. <i>Automatica</i> , 2015 , 58, 39-42	5.7	119
295	Optimal Tracking Control of Unknown Discrete-Time Linear Systems Using Input-Output Measured Data. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 2770-9	10.2	117
294	Neurodynamic Programming and Zero-Sum Games for Constrained Control Systems. <i>IEEE Transactions on Neural Networks</i> , 2008 , 19, 1243-1252		117
293	Discrete-Time Deterministic Q-Learning: A Novel Convergence Analysis. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 1224-1237	10.2	115
292	Off-Policy Integral Reinforcement Learning Method to Solve Nonlinear Continuous-Time Multiplayer Nonzero-Sum Games. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 704-713	10.3	104
291	Neuro-adaptive cooperative tracking control of unknown higher-order affine nonlinear systems. <i>Automatica</i> , 2014 , 50, 798-808	5.7	101
290	Tool Wear Monitoring Using Acoustic Emissions by Dominant-Feature Identification. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 547-559	5.2	99
289	Optimized Assistive Human-Robot Interaction Using Reinforcement Learning. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 655-67	10.2	97
288	Robust Formation Control for Multiple Quadrotors With Nonlinearities and Disturbances. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 1362-1371	10.2	95

287	H _∞ control of linear discrete-time systems: Off-policy reinforcement learning. <i>Automatica</i> , 2017 , 78, 144-152	5.7	94
286	Optimal model-free output synchronization of heterogeneous systems using off-policy reinforcement learning. <i>Automatica</i> , 2016 , 71, 334-341	5.7	89
285	Mixed Iterative Adaptive Dynamic Programming for Optimal Battery Energy Control in Smart Residential Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 4110-4120	8.9	84
284	Policy Gradient Adaptive Dynamic Programming for Data-Based Optimal Control. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 3341-3354	10.2	84
283	Off-Policy Reinforcement Learning for Synchronization in Multiagent Graphical Games. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 2434-2445	10.3	82
282	Output Containment Control of Linear Heterogeneous Multi-Agent Systems Using Internal Model Principle. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2099-2109	10.2	79
281	Multi-agent zero-sum differential graphical games for disturbance rejection in distributed control. <i>Automatica</i> , 2016 , 69, 24-34	5.7	77
280	Optimal, Nonlinear, and Distributed Designs of Droop Controls for DC Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 2508-2516	10.7	77
279	Discrete-Time Local Value Iteration Adaptive Dynamic Programming: Convergence Analysis. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 875-891	7.3	76
278	H-Infinity Static Output-feedback Control for Rotorcraft. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2009 , 54, 629-646	2.9	76
277	Adaptive dynamic programming for online solution of a zero-sum differential game. <i>Journal of Control Theory and Applications</i> , 2011 , 9, 353-360		75
276	Distributed information-weighted Kalman consensus filter for sensor networks. <i>Automatica</i> , 2017 , 77, 18-30	5.7	74
275	Data-Driven Flotation Industrial Process Operational Optimal Control Based on Reinforcement Learning. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 1974-1989	11.9	73
274	Distributed consensus tracking for non-linear multi-agent systems with input saturation: a command filtered backstepping approach. <i>IET Control Theory and Applications</i> , 2016 , 10, 509-516	2.5	72
273	Output regulation of linear heterogeneous multi-agent systems via output and state feedback. <i>Automatica</i> , 2016 , 67, 157-164	5.7	70
272	Necessary and Sufficient Conditions for H-Infinity Static Output-Feedback Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2006 , 29, 915-920	2.1	69
271	Consensus of heterogeneous first- and second-order multi-agent systems with directed communication topologies. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 362-375	3.6	66
270	Intelligent Diagnosis and Prognosis of Tool Wear Using Dominant Feature Identification. <i>IEEE Transactions on Industrial Informatics</i> , 2009 , 5, 454-464	11.9	65

269	Reinforcement Learning-Based Adaptive Optimal Exponential Tracking Control of Linear Systems With Unknown Dynamics. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 4423-4438	5.9	63
268	Online adaptive algorithm for optimal control with integral reinforcement learning. <i>International Journal of Robust and Nonlinear Control</i> , 2014 , 24, 2686-2710	3.6	62
267	Fixed-Final-Time-Constrained Optimal Control of Nonlinear Systems Using Neural Network HJB Approach. <i>IEEE Transactions on Neural Networks</i> , 2007 , 18, 1725-1737		62
266	Leader-to-Formation Stability of Multiagent Systems: An Adaptive Optimal Control Approach. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 3581-3587	5.9	59
265	Optimal Output-Feedback Control of Unknown Continuous-Time Linear Systems Using Off-policy Reinforcement Learning. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 2401-2410	10.2	59
264	Consensusability of Discrete-Time Dynamic Multiagent Systems. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 2085-2089	5.9	58
263	Second-order consensus for directed multi-agent systems with sampled data. <i>International Journal of Robust and Nonlinear Control</i> , 2014 , 24, 2560-2573	3.6	57
262	Adaptive Admittance Control for HumanRobot Interaction Using Model Reference Design and Adaptive Inverse Filtering. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 278-285	4.8	54
261	. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 117-131	5.9	54
260	Team-Oriented Load Sharing in Parallel DCDC Converters. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 479-490	4.3	53
259	Distributed Fault-Tolerant Control of Networked Uncertain Euler-Lagrange Systems Under Actuator Faults. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 1706-1718	10.2	52
258	Distributed L2-gain output-feedback control of homogeneous and heterogeneous systems. <i>Automatica</i> , 2016 , 71, 361-368	5.7	52
257	Off-Policy Interleaved Q -Learning: Optimal Control for Affine Nonlinear Discrete-Time Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 1308-1320	10.3	52
256	Synchrony in Networked Microgrids Under Attacks. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 6731-6741	10.7	51
255	Modular DCDC Converters on Graphs: Cooperative Control. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 6725-6741	7.2	51
254	Robust formation tracking control for multiple quadrotors under aggressive maneuvers. <i>Automatica</i> , 2019 , 105, 179-185	5.7	48
253	Adaptive output containment control of heterogeneous multi-agent systems with unknown leaders. <i>Automatica</i> , 2018 , 92, 235-239	5.7	48
252	Resilient Cooperative Control of DC Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 1083-1085	10.7	47

251	Adaptive Suboptimal Output-Feedback Control for Linear Systems Using Integral Reinforcement Learning. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 264-273	4.8	46
250	Tracking Control for Linear Discrete-Time Networked Control Systems With Unknown Dynamics and Dropout. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 4607-4620	10.3	43
249	Exponential Stabilization of Fuzzy Memristive Neural Networks With Hybrid Unbounded Time-Varying Delays. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 739-750	10.3	43
248	Nash equilibrium seeking for N-coalition noncooperative games. <i>Automatica</i> , 2018 , 95, 266-272	5.7	42
247	Lagrange Stability and Finite-Time Stabilization of Fuzzy Memristive Neural Networks With Hybrid Time-Varying Delays. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 2959-2970	10.2	41
246	. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 454-465	11.9	40
245	Multistability of Delayed Hybrid Impulsive Neural Networks With Application to Associative Memories. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 1537-1551	10.3	40
244	Dual-Rate Operational Optimal Control for Flotation Industrial Process With Unknown Operational Model. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4587-4599	8.9	39
243	A policy iteration approach to online optimal control of continuous-time constrained-input systems. <i>ISA Transactions</i> , 2013 , 52, 611-21	5.5	39
242	Adaptive synchronisation of unknown nonlinear networked systems with prescribed performance. <i>International Journal of Systems Science</i> , 2017 , 48, 885-898	2.3	39
241	Cooperative containment of discrete-time linear multi-agent systems. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 1007-1018	3.6	39
240	Optimal Robust Output Containment of Unknown Heterogeneous Multiagent System Using Off-Policy Reinforcement Learning. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 3197-3207	10.2	37
239	Off-Policy Reinforcement Learning: Optimal Operational Control for Two-Time-Scale Industrial Processes. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 4547-4558	10.2	37
238	. <i>IEEE Transactions on Control of Network Systems</i> , 2019 , 6, 537-548	4	36
237	Cooperative control with distributed gain adaptation and connectivity estimation for directed networks. <i>International Journal of Robust and Nonlinear Control</i> , 2014 , 24, 450-476	3.6	36
236	Neuro-adaptive cooperative tracking control with prescribed performance of unknown higher-order nonlinear multi-agent systems. <i>International Journal of Control</i> , 2019 , 92, 445-460	1.5	36
235	Integral Reinforcement Learning for online computation of feedback Nash strategies of nonzero-sum differential games 2010 ,		35
234	Discrete-time dynamic graphical games: model-free reinforcement learning solution. <i>Control Theory and Technology</i> , 2015 , 13, 55-69	1	33

233	Output synchronization of heterogeneous discrete-time systems: A model-free optimal approach. <i>Automatica</i> , 2017 , 84, 86-94	5.7	32
232	Neuro-Adaptive Distributed Control With Prescribed Performance for the Synchronization of Unknown Nonlinear Networked Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 2135-2144	7.3	31
231	Robust adaptive trajectory tracking control of underactuated autonomous underwater vehicles with prescribed performance. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 4629-4643	3.6	31
230	Fully Distributed Resilience for Adaptive Exponential Synchronization of Heterogeneous Multiagent Systems Against Actuator Faults. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 3347-3354	5.9	31
229	Optimal Output Regulation of Linear Discrete-Time Systems With Unknown Dynamics Using Reinforcement Learning. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3147-3156	10.2	31
228	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 9527-9537	8.9	30
227	Event-Based Time-Interval Pinning Control for Complex Networks on Time Scales and Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 8797-8808	8.9	30
226	Containment Control for Multiagent Systems Under Two Intermittent Control Schemes. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 1236-1243	5.9	30
225	Leader-following control for multiple inertial agents. <i>International Journal of Robust and Nonlinear Control</i> , 2011 , 21, 925-942	3.6	30
224	Adaptive optimal controllers based on Generalized Policy Iteration in a continuous-time framework 2009 ,		30
223	Resilient and Robust Synchronization of Multiagent Systems Under Attacks on Sensors and Actuators. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 1240-1250	10.2	29
222	A Unified Strategy for Solution Seeking in Graphical $\$N\$-Coalition Noncooperative Games. IEEE Transactions on Automatic Control, 2019, 64, 4645-4652$	5.9	28
221	Discrete-time nonlinear HJB solution using Approximate dynamic programming: Convergence Proof 2007 ,		27
220	Integrated Supervisory and Operational Control of a Warehouse With a Matrix-Based Approach. <i>IEEE Transactions on Automation Science and Engineering</i> , 2008 , 5, 53-70	4.9	26
219	. <i>IEEE Transactions on Energy Conversion</i> , 2016 , 31, 882-895	5.4	26
218	Distributed Noise-Resilient Networked Synchrony of Active Distribution Systems. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 836-846	10.7	25
217	Distributed Resilient Secondary Control of DC Microgrids Against Unbounded Attacks. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3850-3859	10.7	24
216	Actor-Critic Off-Policy Learning for Optimal Control of Multiple-Model Discrete-Time Systems. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 29-40	10.2	24

215	Cooperative observers and regulators for discrete-time multiagent systems. <i>International Journal of Robust and Nonlinear Control</i> , 2013 , 23, 1545-1562	3.6	24
214	Robust Formation Trajectory Tracking Control for Multiple Quadrotors With Communication Delays. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 2633-2640	4.8	24
213	Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 4009-4019	7.3	24
212	Adaptive Output Formation-Tracking of Heterogeneous Multi-Agent Systems Using Time-Varying \mathcal{L}_2 -Gain Design 2018 , 2, 236-241		23
211	Classification of energy consumption patterns for energy audit and machine scheduling in industrial manufacturing systems. <i>Transactions of the Institute of Measurement and Control</i> , 2013 , 35, 583-592	1.8	23
210	Nonzero-Sum Game Reinforcement Learning for Performance Optimization in Large-Scale Industrial Processes. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 4132-4145	10.2	23
209	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019 , 55, 2023-2035	3.7	23
208	Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 1215-1223	7.3	23
207	Intent aware adaptive admittance control for physical Human-Robot Interaction 2015 ,		22
206	Adaptive Tracking Control of Cooperative Robot Manipulators With Markovian Switched Couplings. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 2427-2436	8.9	22
205	Resilient Networked AC Microgrids Under Unbounded Cyber Attacks. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3785-3794	10.7	21
204	Robust consensus of multiple inertial agents with coupling delays and variable topologies. <i>International Journal of Robust and Nonlinear Control</i> , 2011 , 21, 666-685	3.6	21
203	BACKLASH COMPENSATION IN NONLINEAR SYSTEMS USING DYNAMIC INVERSION BY NEURAL NETWORKS. <i>Asian Journal of Control</i> , 2008 , 2, 76-87	1.7	20
202	Operational Control of Mineral Grinding Processes Using Adaptive Dynamic Programming and Reference Governor. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 2210-2221	11.9	20
201	. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 2067-2078	8.3	20
200	Robust Fault-Tolerant Formation Control for Tail-Sitters in Aggressive Flight Mode Transitions. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 299-308	11.9	20
199	Robust Formation Tracking Control for Multiple Quadrotors Subject to Switching Topologies. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 1319-1329	4	19
198	Off-policy learning for adaptive optimal output synchronization of heterogeneous multi-agent systems. <i>Automatica</i> , 2020 , 119, 109081	5.7	19

197	Robust Practical Point Stabilization of a Nonholonomic Mobile Robot Using Neural Networks. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 1997 , 20, 295-317	2.9	19
196	A Neural Net Predictive Control for Telerobots with Time Delay. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2000 , 29, 1-25	2.9	19
195	Cooperative adaptive optimal output regulation of nonlinear discrete-time multi-agent systems. <i>Automatica</i> , 2020 , 121, 109149	5.7	19
194	Adaptive Compensation for Nonlinear Time-Varying Multiagent Systems With Actuator Failures and Unknown Control Directions. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 1780-1790	10.2	19
193	Discrete-Time Impulsive Adaptive Dynamic Programming. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 4293-4306	10.2	19
192	Adaptive Asymptotic Neural Network Control of Nonlinear Systems With Unknown Actuator Quantization. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 6303-6312	10.3	19
191	Adaptive backstepping optimal control of a fractional-order chaotic magnetic-field electromechanical transducer. <i>Nonlinear Dynamics</i> , 2020 , 100, 523-540	5	18
190	Distributed containment control for nonlinear multiagent systems in pure-feedback form. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 2742-2758	3.6	18
189	Experimental Path Loss Models for Wireless Sensor Networks 2007 ,		18
188	Neural net robot controller: Structure and stability proofs. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 1995 , 12, 277-299	2.9	18
187	Robust Visual Servoing Control for Ground Target Tracking of Quadrotors. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1980-1987	4.8	18
186	Online actor critic algorithm to solve the continuous-time infinite horizon optimal control problem 2009 ,		17
185	Adaptive fuzzy logic compensation of actuator deadzones. <i>Journal of Field Robotics</i> , 1997 , 14, 501-511		17
184	Online policy iteration based algorithms to solve the continuous-time infinite horizon optimal control problem 2009 ,		16
183	Coupled and constrained sylvester equations in system design. <i>Circuits, Systems, and Signal Processing</i> , 1994 , 13, 663-694	2.2	16
182	Robust formation flying control for a team of satellites subject to nonlinearities and uncertainties. <i>Aerospace Science and Technology</i> , 2019 , 95, 105455	4.9	15
181	. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 1396-1406	5.4	14
180	A Scalable Sampling Method to High-Dimensional Uncertainties for Optimal and Reinforcement Learning-Based Controls 2017 , 1, 98-103		14

179	Optimal tracking control for linear discrete-time systems using reinforcement learning 2013 ,		14
178	Robust force/motion control of constrained robots using neural network. <i>Journal of Field Robotics</i> , 1999 , 16, 697-714		14
177	Adaptive tuning of fuzzy logic identifier for unknown non-linear systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 1994 , 8, 573-586	2.8	14
176	Robust Formation Control for Cooperative Underactuated Quadrotors via Reinforcement Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 4577-4587	10.3	14
175	Dynamic Multiobjective Control for Continuous-Time Systems Using Reinforcement Learning. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 2869-2874	5.9	14
174	Output-feedback H _∞ quadratic tracking control of linear systems using reinforcement learning. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019 , 33, 300-314	2.8	14
173	Trajectory Regulating Model Reference Adaptive Controller for Robotic Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 2749-2756	4.8	13
172	Dynamic formulation and approximation methods to solve economic dispatch problems. <i>IET Generation, Transmission and Distribution</i> , 2013 , 7, 866-873	2.5	13
171	Design and implementation of a structured flight controller for a 6DoF quadrotor using quaternions 2009 ,		13
170	Decentralized task sequencing and multiple mission control for heterogeneous robotic networks 2011 ,		13
169	Bipartite output synchronization of heterogeneous multiagent systems on signed digraphs. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 4017-4031	3.6	13
168	Accelerated Adaptive Fuzzy Optimal Control of Three Coupled Fractional-Order Chaotic Electromechanical Transducers. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	12
167	Neural Networks in Feedback Control Systems 2006 , 791-825		12
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42	Virtual-Action-Based Coordinated Reinforcement Learning for Distributed Economic Dispatch. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	2
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25	Model-Free Linear Discrete-Time System H ∞ Control Using Input-Output Data 2018 ,		1
24	Statistical Properties and Airspace Capacity for Unmanned Aerial Vehicle Networks Subject to Sense-and-Avoid Safety Protocols. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 5890-5903	6.1	1
23	Static Output-Feedback Control Design Procedures for Continuous-Time Systems With Different Levels of Model Knowledge. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	1
22	H ∞ -Based Minimal Energy Adaptive Control With Preset Convergence Rate. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	1
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11	Appendix A: Review of Matrix Algebra 2012 , 518-526		
10	STATIC OPTIMIZATION 2012 , 1-18		
9	ROBUSTNESS AND MULTIVARIABLE FREQUENCY-DOMAIN TECHNIQUES 2012 , 355-437		
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3	APPENDIX A: REVIEW OF MATRIX ALGEBRA 518-526		
2	A Framework of Multiagent Systems Behavioral Control Under State-Dependent Network Protocols. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 734-746	4	
1	Computational Intelligence in Uncertainty Quantification for Learning Control and Differential Games. <i>Studies in Systems, Decision and Control</i> , 2021 , 385-418	0.8	