Robin J Evans

List of Publications by Year
in descending order

136 papers	5,212 citations	159585 30 h-index	106344 65 g-index
138 all docs	138 docs citations	138 times ranked	3013 citing authors

#	Article	IF	Citations
1	Exploring the relationship between pain and self-harm thoughts and behaviours in young people using network analysis. Psychological Medicine, 2022, 52, 3560-3569.	4.5	3
2	Continuous gravitational waves in the lab: Recovering audio signals with a table-top optical microphone. American Journal of Physics, 2022, 90, 286-296.	0.7	1
3	Multi-Radio Based Rendezvous Technique for Heterogeneous Cognitive Radio Sensor Network. Sensors, 2021, 21, 2997.	3.8	2
4	Stabilising influence of a synchronous condenser in low inertia networks. IET Generation, Transmission and Distribution, 2020, 14, 3582-3593.	2.5	20
5	Identifying Cognitive Radars - Inverse Reinforcement Learning Using Revealed Preferences. IEEE Transactions on Signal Processing, 2020, 68, 4529-4542.	5.3	14
6	Robust Likelihood Ratio Test Using Î±â˜†Divergence. , 2020, , .		4
7	Adaptive Matched Filter using Non-Target Free Training Data. , 2020, , .		3
8	Model selection and local geometry. Annals of Statistics, 2020, 48, .	2.6	1
9	Stability and bifurcations in low inertia PV rich power networks. IET Generation, Transmission and Distribution, 2020, 14, 6122-6132.	2.5	2
10	Statistical Distribution Analysis of Sender-Jump Receiver-Wait Rendezvous in Cognitive Radio. IEEE Communications Letters, 2019, 23, 1310-1313.	4.1	3
11	Interference Mitigation in Automotive Radars Using Pseudo-Random Cyclic Orthogonal Sequences. Sensors, 2019, 19, 4459.	3.8	19
12	Adaptive Subspace Detector in High Dimensional Space with Insufficient Training Data. , 2019, , .		6
13	Prime Number Theory based Multi-Radio Rendezvous for Cognitive Radio Communication. , 2019, , .		0
14	Direct Electrohydrodynamic Patterning of High-Performance All Metal Oxide Thin-Film Electronics. ACS Nano, 2019, 13, 13957-13964.	14.6	34
15	Adolescent Paranoia: Prevalence, Structure, and Causal Mechanisms. Schizophrenia Bulletin, 2019, 45, 1134-1142.	4.3	26
16	Hand-Gesture Recognition Using Two-Antenna Doppler Radar With Deep Convolutional Neural Networks. IEEE Sensors Journal, 2019, 19, 3041-3048.	4.7	175
17	An Information Analysis of Iterative Algorithms for Network Utility Maximization and Strategic Games. IEEE Transactions on Control of Network Systems, 2019, 6, 151-162.	3.7	3
18	Convergence Analysis of Quantized Primal-Dual Algorithms in Network Utility Maximization Problems. IEEE Transactions on Control of Network Systems, 2018, 5, 284-297.	3.7	8

#	Article	IF	Citations
19	Stochastic Geometry Methods for Modeling Automotive Radar Interference. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 333-344.	8.0	67
20	Millimeter-wave integrated radar systems and techniques. , 2018, , 317-363.		18
21	Fixed-Point Algorithm for Identification of Line Impedances in Low Voltage Power Networks Based on Smart Meter Data. , 2018, , .		1
22	Monte-Carlo Simulation Based Analysis of Sender-Jump Receiver-Wait Rendezvous Technique with Asymmetric Channels for Cognitive Networks. , 2018, , .		3
23	Impact of Quantized Inter-agent Communications on Game-Theoretic and Distributed Optimization Algorithms. Systems and Control: Foundations and Applications, 2018, , 501-532.	0.3	1
24	Cooperative Soft Fusion for HMM-Based Spectrum Occupancy Prediction. IEEE Communications Letters, 2018, 22, 2144-2147.	4.1	38
25	Margins of discrete Bayesian networks. Annals of Statistics, 2018, 46, .	2.6	15
26	Free Spectrum for IoT: How Much Can It Take?. , 2018, , .		15
27	Statistical spectrum occupancy prediction for dynamic spectrum access: a classification. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	2.4	35
28	Acyclic Linear SEMs Obey the Nested Markov Property. Uncertainty in artificial intelligence : proceedings of the ... conference., 2018, 2018, .	0.9	1
29	A tight binding and $$overrightarrow{{oldsymbol{k}}}cdot overrightarrow{{oldsymbol{p}}}$$ study of monolayer stanene. Scientific Reports, 2017, 7, 12069.	3.3	11
30	A Silk Fibroin Bio-Transient Solution Processable Memristor. Scientific Reports, 2017, 7, 14731.	3.3	47
31	EE-CAN: Energy efficient clustering in aerial networks. , 2017, , .		0
32	Gate tunable graphene break junction spin filter. , 2017, , .		0
33	Efficient Range-Doppler Processing for Random Stepped Frequency Radar in Automotive Applications. , 2017, , .		6
34	Automobile radar co-channel interference modeling, simulation and outage analysis. , 2017, , .		0
35	Performance Evaluation of LTE and WiFi Technologies in Aerial Networks. , 2016, , .		9
36	Non-equilibrium tunneling in zigzag graphene nanoribbon break-junction results in spin filtering. Journal of Applied Physics, 2016, 119, .	2.5	3

#	Article	IF	Citations
37	Nearest Neighbor Distance Distribution in Hard-Core Point Processes. IEEE Communications Letters, 2016, 20, 1872-1875.	4.1	43
38	Quantification of the Finger Functional Range via Explicit Descriptions of Reachable Subspaces. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1412-1422.	4.7	3
39	A Markov Decision Process-Based Opportunistic Spectral Access. IEEE Wireless Communications Letters, 2016, 5, 544-547.	5.0	11
40	Graphs for Margins of Bayesian Networks. Scandinavian Journal of Statistics, 2016, 43, 625-648.	1.4	36
41	Separation of Doppler radar-based respiratory signatures. Medical and Biological Engineering and Computing, 2016, 54, 1169-1179.	2.8	10
42	Predicting and controlling the dynamics of infectious diseases. , 2015, , .		3
43	Smoothness of marginal log-linear parameterizations. Electronic Journal of Statistics, 2015, 9, .	0.7	5
44	Noncontact Detection and Analysis of Respiratory Function Using Microwave Doppler Radar. Journal of Sensors, 2015, 2015, 1-13.	1.1	27
45	Spectrum occupancy prediction using a Hidden Markov Model. , 2015, , .		29
46	CMOS compatible fabrication process of MEMS resonator for timing reference and sensing application. , 2015, , .		0
47	Turnpike theorem for terminal functionals in infinite horizon optimal control problems. Journal of Mathematical Analysis and Applications, 2015, 428, 1147-1160.	1.0	2
48	Distributed target tracking under communication constraints. , 2015, , .		0
49	Negative differential resistance effect in planar graphene nanoribbon break junctions. Nanoscale, 2015, 7, 289-293.	5.6	37
50	Introduction to Nested Markov Models. Behaviormetrika, 2014, 41, 3-39.	1.3	23
51	Analysis of ip-based communication backbone over shared wide area-network for Smart Grid applications. , 2014, , .		2
52	Graphical Latent Structure Testing. Studies in Theoretical and Applied Statistics, Selected Papers of the Statistical Societies, 2014, , 253-262.	0.2	0
53	Dynamics of Ebola epidemics in West Africa 2014. F1000Research, 2014, 3, 319.	1.6	3
54	Markovian acyclic directed mixed graphs for discrete data. Annals of Statistics, 2014, 42, .	2.6	14

#	Article	IF	Citations
55	Dynamics of Ebola epidemics in West Africa 2014. F1000Research, 2014, 3, 319.	1.6	3
56	Clustering approach for aerial base-station access with terrestrial cooperation. , 2013, , .		21
57	Spectrum sensing and detection of incumbent-UEs in secondary-LTE based aerial-terrestrial networks for disaster recovery. , 2013, , .		16
58	A CMOS 77-GHz Receiver Front-End for Automotive Radar. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3783-3793.	4.6	42
59	Analysis of Optimum Aspect Ratio of Transistor for a Low-Power and Low-Phase Noise VCO for Biomedical Applications. , 2013, , .		1
60	Reinforcement learning based secondary user transmissions in cognitive radio networks. , 2013, , .		10
61	Marginal Log-Linear Parameters for Graphical Markov Models. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2013, 75, 743-768.	2.2	18
62	A 77 GHz automotive radar transmitter in 65-nm CMOS. , 2012, , .		2
63	A High Performance Low Cost CMOS Radar for Advanced Driving Assistance Applications. , 2012, , .		4
64	Graphical methods for inequality constraints in marginalized DAGs. , 2012, , .		15
65	Band-pass sampling techniques for high resolution multi-channel single-chip radar systems. , 2012, , .		5
66	A 7GHz 1mV-input-resolution comparator with 40mV-input-referred-offset compensation capability in 65NM CMOS. , 2011, , .		2
67	A novel slow-wave structure for millimeter-wave filter application on bulk CMOS. , 2011, , .		3
68	Game Theoretic Analysis of Adaptive Radar Jamming. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 1081-1100.	4.7	63
69	Transparent Parametrizations of Models for Potential Outcomes. , 2011, , 569-610.		26
70	Trajectory control of autonomous fixed-wing aircraft performing multiple target passive detection and tracking. , 2010, , .		2
71	Radar-on-a-chip (ROACH). , 2010, , .		9
72	Control of unmanned aerial vehicles for passive detection and tracking of multiple emitters. , 2009, , .		6

#	Article	IF	Citations
73	Regularization Techniques for Extracting OSNR From Low Resolution WDM Channel Monitors. Journal of Lightwave Technology, 2009, 27, 1162-1171.	4.6	5
74	Synchronization of Passifiable Lurie Systems Via Limited-Capacity Communication Channel. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 430-439.	5.4	44
75	A current-switching phase shifter for millimeter-wave applications. , 2009, , .		0
76	Control of unmanned aerial vehicles performing multiple target passive detection and tracking. , 2009, , .		1
77	INFORMATION STRUCTURE CONSIDERATIONS FOR DECENTRALIZED LARGE-SCALE SYSTEMS. Asian Journal of Control, 2008, 7, 424-432.	3.0	1
78	Spectral Recovery for Low-Resolution Optical Spectrum Monitors. IEEE Photonics Technology Letters, 2008, 20, 1109-1111.	2.5	7
79	Hybrid quantised observer for multi-input-multi-output nonlinear systems. , 2008, , .		3
80	Synchronization of nonlinear systems under information constraints. Chaos, 2008, 18, 037109.	2.5	33
81	A 60-GHz variable delay line on CMOS for steerable antennae in wireless communication systems. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	2
82	A 60-GHz power amplifier and transmit/receive switch for integrated CMOS wireless transceivers. , 2008, , .		2
83	Controlled synchronization under information constraints. Physical Review E, 2008, 78, 036210.	2.1	38
84	Synchronization of passifiable Lurie systems via limited capacity communication channel. , 2008, , .		2
85	Maximum likelihood estimation techniques for high rate, high throughput digital pulse processing. , 2008, , .		8
86	A 60-GHz CMOS Transmit/Receive Switch. Radio Frequency Integrated Circuits (RFIC) Symposium, IEEE, 2007, , .	0.0	35
87	Feedback Control Under Data Rate Constraints: An Overview. Proceedings of the IEEE, 2007, 95, 108-137.	21.3	824
88	Cooperative networked stabilisability of linear systems with measurement noise. , 2007, , .		11
89	Track fusion using equivalent innovations. , 2007, , .		5
90	Simulation-based optimal sensor scheduling with application to observer trajectory planning. Automatica, 2007, 43, 817-830.	5.0	40

#	Article	IF	Citations
91	Control of chaos: methods and applications in mechanics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 2279-2307.	3.4	55
92	Measurement Gaussian Sum Mixture Target Tracking. , 2006, , .		19
93	Signal Processing for Optical Power Spectrum Monitoring. , 2006, , .		5
94	A DATA-RATE LIMITED VIEW OF ADAPTIVE CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1109-1114.	0.4	2
95	OPTIMAL INFINITE HORIZON CONTROL UNDER A LOW DATA RATE 2. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1115-1120.	0.4	6
96	ANALYSIS OF A CHAOTIC SYNCHRONISATION SYSTEM UNDER INFORMATION CONSTRAINTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 142-147.	0.4	1
97	ADAPTIVE OBSERVER-BASED SYNCHRONISATION OF CHAOTIC SYSTEMS IN PRESENCE OF INFORMATION CONSTRAINTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 269-274.	0.4	4
98	Chaotic observer-based synchronization under information constraints. Physical Review E, 2006, 73, 066209.	2.1	57
99	Control of chaos: Methods and applications in engineering. Annual Reviews in Control, 2005, 29, 33-56.	7.9	301
100	Stabilizability of Stochastic Linear Systems with Finite Feedback Data Rates. SIAM Journal on Control and Optimization, 2004, 43, 413-436.	2.1	602
101	Exponential stabilisability of finite-dimensional linear systems with limited data rates. Automatica, 2003, 39, 585-593.	5.0	436
102	A Bayesian solution and its approximations to out-of-sequence measurement problems. Information Fusion, 2003, 4, 185-199.	19.1	98
103	Feedback data rates for nonlinear systems. , 2003, , .		9
104	<title>Cooperative sensor networks with bandwidth constraints</title>. , 2002, , .		10
105	CONTROL OF CHAOS: SURVEY 1997-2000. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 131-142.	0.4	35
106	Hybrid Dynamical Systems. , 2002, , .		190
107	The problem of optimal robust sensor scheduling. Systems and Control Letters, 2001, 43, 149-157.	2.3	24
108	Stabilization with data-rate-limited feedback: tightest attainable bounds. Systems and Control Letters, 2000, 41, 49-56.	2.3	288

#	Article	IF	Citations
109	Image-enhanced multiple model tracking. Automatica, 1999, 35, 1769-1786.	5.0	51
110	Stability results for switched controller systems. Automatica, 1999, 35, 553-564.	5.0	229
111	A new approach to robust control of hybrid systems. Lecture Notes in Computer Science, 1996, , 553-562.	1.3	6
112	Hybrid dynamical systems: robust control synthesis problems. Systems and Control Letters, 1996, 29, 81-90.	2.3	51
113	Multidimensional Inverse Problems in Ultrasonic Imaging. Control and Dynamic Systems, 1995, 69, 1-48.	0.1	2
114	Discrete 2-D system identification for imaging rotating radar targets. Signal Processing, 1992, 29, 191-211.	3.7	1
115	Stable hybrid adaptive control. International Journal of Control, 1991, 53, 1377-1394.	1.9	5
116	Characterization of robust controllers. Automatica, 1989, 25, 115-117.	5.0	12
117	Rate constrained adaptive control. International Journal of Control, 1988, 48, 2179-2187.	1.9	17
118	Amplitude constrained adaptive control. International Journal of Control, 1987, 46, 53-64.	1.9	48
119	Adaptive pole-assignment subject to saturation constraints. International Journal of Control, 1987, 46, 1391-1398.	1.9	32
120	Constrained pole-placement using transformation and LQ-design. Automatica, 1987, 23, 767-769.	5.0	36
121	Optimal Pulsewidth Modulation for Current Source Inverters. IEEE Transactions on Industrial Electronics, 1986, IE-33, 318-324.	7.9	10
122	Torque, Speed, and Position Control of Induction Machines Using the DQ Model. IEEE Transactions on Aerospace and Electronic Systems, 1985, AES-21, 698-710.	4.7	4
123	Robust regulator design. International Journal of Control, 1985, 41, 461-476.	1.9	19
124	Robust multivariable regulator design - General cases. , 1985, , .		0
125	Nonlinear Adaptive Control of a Synchronous Machine. IEEE Transactions on Aerospace and Electronic Systems, 1985, AES-21, 631-643.	4.7	0
126	Microprocessor Control of a Cycloconverter. IEEE Transactions on Industrial Electronics, 1985, IE-32, 120-129.	7.9	8

#	Article	IF	Citations
127	Discrete-time adaptive control for deterministic time-varying systems. Automatica, 1984, 20, 309-319.	5.0	70
128	Envelope-constrained filters with uncertain input. Circuits, Systems, and Signal Processing, 1983, 2, 131-154.	2.0	25
129	Discrete time stochastic adaptive control for time varying systems. , 1983, , .		1
130	Adaptive Control of a Current-Fed Induction Motor. IEEE Transactions on Aerospace and Electronic Systems, 1983, AES-19, 221-231.	4.7	6
131	Nonlinear Adaptive Control of an Inverter-Fed Induction Motor Linear Load Case. IEEE Transactions on Industry Applications, 1983, IA-19, 74-83.	4.9	11
132	Robust adaptive array antennas. Journal of the Acoustical Society of America, 1982, 71, 384-394.	1.1	16
133	Adaptive equalization algorithms for optimization of a generalized mean square cost. Information Sciences, 1981, 24, 23-42.	6.9	1
134	Discrete time adaptive control for classes of nonlinear systems. , 1980, , 213-228.		6
135	Optimal Resolution of Rectangular Pulses in Noise. IEEE Transactions on Aerospace and Electronic Systems, 1975, AES-11, 372-379.	4.7	5
136	Rapid parameter estimation of a two-component neutron star model with spin wandering using a Kalman filter. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	7