

# Robin J Evans

## List of Publications by Year in descending order

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136  
papers

5,212  
citations

159358

30  
h-index

106150

65  
g-index

138  
all docs

138  
docs citations

138  
times ranked

3013  
citing authors

#	ARTICLE	IF	CITATIONS
1	Feedback Control Under Data Rate Constraints: An Overview. Proceedings of the IEEE, 2007, 95, 108-137.	16.4	824
2	Stabilizability of Stochastic Linear Systems with Finite Feedback Data Rates. SIAM Journal on Control and Optimization, 2004, 43, 413-436.	1.1	602
3	Exponential stabilisability of finite-dimensional linear systems with limited data rates. Automatica, 2003, 39, 585-593.	3.0	436
4	Control of chaos: Methods and applications in engineering. Annual Reviews in Control, 2005, 29, 33-56.	4.4	301
5	Stabilization with data-rate-limited feedback: tightest attainable bounds. Systems and Control Letters, 2000, 41, 49-56.	1.3	288
6	Stability results for switched controller systems. Automatica, 1999, 35, 553-564.	3.0	229
7	Hybrid Dynamical Systems. , 2002, , .		190
8	Hand-Gesture Recognition Using Two-Antenna Doppler Radar With Deep Convolutional Neural Networks. IEEE Sensors Journal, 2019, 19, 3041-3048.	2.4	175
9	A Bayesian solution and its approximations to out-of-sequence measurement problems. Information Fusion, 2003, 4, 185-199.	11.7	98
10	Discrete-time adaptive control for deterministic time-varying systems. Automatica, 1984, 20, 309-319.	3.0	70
11	Stochastic Geometry Methods for Modeling Automotive Radar Interference. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 333-344.	4.7	67
12	Game Theoretic Analysis of Adaptive Radar Jamming. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 1081-1100.	2.6	63
13	Chaotic observer-based synchronization under information constraints. Physical Review E, 2006, 73, 066209.	0.8	57
14	Control of chaos: methods and applications in mechanics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 2279-2307.	1.6	55
15	Hybrid dynamical systems: robust control synthesis problems. Systems and Control Letters, 1996, 29, 81-90.	1.3	51
16	Image-enhanced multiple model tracking. Automatica, 1999, 35, 1769-1786.	3.0	51
17	Amplitude constrained adaptive control. International Journal of Control, 1987, 46, 53-64.	1.2	48
18	A Silk Fibroin Bio-Transient Solution Processable Memristor. Scientific Reports, 2017, 7, 14731.	1.6	47

#	ARTICLE	IF	CITATIONS
19	Synchronization of Passifiable Lurie Systems Via Limited-Capacity Communication Channel. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 430-439.	3.5	44
20	Nearest Neighbor Distance Distribution in Hard-Core Point Processes. IEEE Communications Letters, 2016, 20, 1872-1875.	2.5	43
21	A CMOS 77-GHz Receiver Front-End for Automotive Radar. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3783-3793.	2.9	42
22	Simulation-based optimal sensor scheduling with application to observer trajectory planning. Automatica, 2007, 43, 817-830.	3.0	40
23	Controlled synchronization under information constraints. Physical Review E, 2008, 78, 036210.	0.8	38
24	Cooperative Soft Fusion for HMM-Based Spectrum Occupancy Prediction. IEEE Communications Letters, 2018, 22, 2144-2147.	2.5	38
25	Negative differential resistance effect in planar graphene nanoribbon break junctions. Nanoscale, 2015, 7, 289-293.	2.8	37
26	Constrained pole-placement using transformation and LQ-design. Automatica, 1987, 23, 767-769.	3.0	36
27	Graphs for Margins of Bayesian Networks. Scandinavian Journal of Statistics, 2016, 43, 625-648.	0.9	36
28	CONTROL OF CHAOS: SURVEY 1997-2000. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 131-142.	0.4	35
29	A 60-GHz CMOS Transmit/Receive Switch. Radio Frequency Integrated Circuits (RFIC) Symposium, IEEE, 2007, , .	0.0	35
30	Statistical spectrum occupancy prediction for dynamic spectrum access: a classification. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	1.5	35
31	Direct Electrohydrodynamic Patterning of High-Performance All Metal Oxide Thin-Film Electronics. ACS Nano, 2019, 13, 13957-13964.	7.3	34
32	Synchronization of nonlinear systems under information constraints. Chaos, 2008, 18, 037109.	1.0	33
33	Adaptive pole-assignment subject to saturation constraints. International Journal of Control, 1987, 46, 1391-1398.	1.2	32
34	Spectrum occupancy prediction using a Hidden Markov Model. , 2015, , .		29
35	Noncontact Detection and Analysis of Respiratory Function Using Microwave Doppler Radar. Journal of Sensors, 2015, 2015, 1-13.	0.6	27
36	Adolescent Paranoia: Prevalence, Structure, and Causal Mechanisms. Schizophrenia Bulletin, 2019, 45, 1134-1142.	2.3	26

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37	Transparent Parametrizations of Models for Potential Outcomes. , 2011, , 569-610.		26
38	Envelope-constrained filters with uncertain input. Circuits, Systems, and Signal Processing, 1983, 2, 131-154.	1.2	25
39	The problem of optimal robust sensor scheduling. Systems and Control Letters, 2001, 43, 149-157.	1.3	24
40	Introduction to Nested Markov Models. Behaviormetrika, 2014, 41, 3-39.	0.9	23
41	Clustering approach for aerial base-station access with terrestrial cooperation. , 2013, , .		21
42	Stabilising influence of a synchronous condenser in low inertia networks. IET Generation, Transmission and Distribution, 2020, 14, 3582-3593.	1.4	20
43	Robust regulator design. International Journal of Control, 1985, 41, 461-476.	1.2	19
44	Measurement Gaussian Sum Mixture Target Tracking. , 2006, , .		19
45	Interference Mitigation in Automotive Radars Using Pseudo-Random Cyclic Orthogonal Sequences. Sensors, 2019, 19, 4459.	2.1	19
46	Marginal Log-Linear Parameters for Graphical Markov Models. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2013, 75, 743-768.	1.1	18
47	Millimeter-wave integrated radar systems and techniques. , 2018, , 317-363.		18
48	Rate constrained adaptive control. International Journal of Control, 1988, 48, 2179-2187.	1.2	17
49	Robust adaptive array antennas. Journal of the Acoustical Society of America, 1982, 71, 384-394.	0.5	16
50	Spectrum sensing and detection of incumbent-UEs in secondary-LTE based aerial-terrestrial networks for disaster recovery. , 2013, , .		16
51	Graphical methods for inequality constraints in marginalized DAGs. , 2012, , .		15
52	Margins of discrete Bayesian networks. Annals of Statistics, 2018, 46, .	1.4	15
53	Free Spectrum for IoT: How Much Can It Take?. , 2018, , .		15
54	Markovian acyclic directed mixed graphs for discrete data. Annals of Statistics, 2014, 42, .	1.4	14

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55	Identifying Cognitive Radars - Inverse Reinforcement Learning Using Revealed Preferences. IEEE Transactions on Signal Processing, 2020, 68, 4529-4542.	3.2	14
56	Characterization of robust controllers. Automatica, 1989, 25, 115-117.	3.0	12
57	Nonlinear Adaptive Control of an Inverter-Fed Induction Motor Linear Load Case. IEEE Transactions on Industry Applications, 1983, IA-19, 74-83.	3.3	11
58	Cooperative networked stabilisability of linear systems with measurement noise. , 2007, , .		11
59	A Markov Decision Process-Based Opportunistic Spectral Access. IEEE Wireless Communications Letters, 2016, 5, 544-547.	3.2	11
60	A tight binding and $\sigma_{\text{ov}} \cdot \sigma_{\text{p}}$ study of monolayer stanene. Scientific Reports, 2017, 7, 12069.	1.6	11
61	Optimal Pulsewidth Modulation for Current Source Inverters. IEEE Transactions on Industrial Electronics, 1986, IE-33, 318-324.	5.2	10
62	<title>Cooperative sensor networks with bandwidth constraints</title>. , 2002, , .		10
63	Reinforcement learning based secondary user transmissions in cognitive radio networks. , 2013, , .		10
64	Separation of Doppler radar-based respiratory signatures. Medical and Biological Engineering and Computing, 2016, 54, 1169-1179.	1.6	10
65	Radar-on-a-chip (ROACH). , 2010, , .		9
66	Performance Evaluation of LTE and WiFi Technologies in Aerial Networks. , 2016, , .		9
67	Feedback data rates for nonlinear systems. , 2003, , .		9
68	Microprocessor Control of a Cycloconverter. IEEE Transactions on Industrial Electronics, 1985, IE-32, 120-129.	5.2	8
69	Maximum likelihood estimation techniques for high rate, high throughput digital pulse processing. , 2008, , .		8
70	Convergence Analysis of Quantized Primal-Dual Algorithms in Network Utility Maximization Problems. IEEE Transactions on Control of Network Systems, 2018, 5, 284-297.	2.4	8
71	Spectral Recovery for Low-Resolution Optical Spectrum Monitors. IEEE Photonics Technology Letters, 2008, 20, 1109-1111.	1.3	7
72	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, , .	1.6	7

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73	Discrete time adaptive control for classes of nonlinear systems. , 1980, , 213-228.		6
74	Adaptive Control of a Current-Fed Induction Motor. IEEE Transactions on Aerospace and Electronic Systems, 1983, AES-19, 221-231.	2.6	6
75	A new approach to robust control of hybrid systems. Lecture Notes in Computer Science, 1996, , 553-562.	1.0	6
76	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
77	Control of unmanned aerial vehicles for passive detection and tracking of multiple emitters. , 2009, , .		6
78	Efficient Range-Doppler Processing for Random Stepped Frequency Radar in Automotive Applications. , 2017, , .		6
79	Adaptive Subspace Detector in High Dimensional Space with Insufficient Training Data. , 2019, , .		6
80	Optimal Resolution of Rectangular Pulses in Noise. IEEE Transactions on Aerospace and Electronic Systems, 1975, AES-11, 372-379.	2.6	5
81	Stable hybrid adaptive control. International Journal of Control, 1991, 53, 1377-1394.	1.2	5
82	Signal Processing for Optical Power Spectrum Monitoring. , 2006, , .		5
83	Track fusion using equivalent innovations. , 2007, , .		5
84	Regularization Techniques for Extracting OSNR From Low Resolution WDM Channel Monitors. Journal of Lightwave Technology, 2009, 27, 1162-1171.	2.7	5
85	Band-pass sampling techniques for high resolution multi-channel single-chip radar systems. , 2012, , .		5
86	Smoothness of marginal log-linear parameterizations. Electronic Journal of Statistics, 2015, 9, .	0.4	5
87	Torque, Speed, and Position Control of Induction Machines Using the DQ Model. IEEE Transactions on Aerospace and Electronic Systems, 1985, AES-21, 698-710.	2.6	4
88	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
89	A High Performance Low Cost CMOS Radar for Advanced Driving Assistance Applications. , 2012, , .		4
90	Robust Likelihood Ratio Test Using $\hat{\mu}^{\sim}$ Divergence. , 2020, , .		4

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91	Hybrid quantised observer for multi-input-multi-output nonlinear systems. , 2008, , .		3
92	A novel slow-wave structure for millimeter-wave filter application on bulk CMOS. , 2011, , .		3
93	Dynamics of Ebola epidemics in West Africa 2014. F1000Research, 2014, 3, 319.	0.8	3
94	Predicting and controlling the dynamics of infectious diseases. , 2015, , .		3
95	Non-equilibrium tunneling in zigzag graphene nanoribbon break-junction results in spin filtering. Journal of Applied Physics, 2016, 119, .	1.1	3
96	Quantification of the Finger Functional Range via Explicit Descriptions of Reachable Subspaces. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1412-1422.	2.4	3
97	Monte-Carlo Simulation Based Analysis of Sender-Jump Receiver-Wait Rendezvous Technique with Asymmetric Channels for Cognitive Networks. , 2018, , .		3
98	Statistical Distribution Analysis of Sender-Jump Receiver-Wait Rendezvous in Cognitive Radio. IEEE Communications Letters, 2019, 23, 1310-1313.	2.5	3
99	An Information Analysis of Iterative Algorithms for Network Utility Maximization and Strategic Games. IEEE Transactions on Control of Network Systems, 2019, 6, 151-162.	2.4	3
100	Adaptive Matched Filter using Non-Target Free Training Data. , 2020, , .		3
101	Exploring the relationship between pain and self-harm thoughts and behaviours in young people using network analysis. Psychological Medicine, 2022, 52, 3560-3569.	2.7	3
102	Dynamics of Ebola epidemics in West Africa 2014. F1000Research, 2014, 3, 319.	0.8	3
103	Multidimensional Inverse Problems in Ultrasonic Imaging. Control and Dynamic Systems, 1995, 69, 1-48.	0.1	2
104	A DATA-RATE LIMITED VIEW OF ADAPTIVE CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1109-1114.	0.4	2
105	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
106	A 60-GHz power amplifier and transmit/receive switch for integrated CMOS wireless transceivers. , 2008, , .		2
107	Synchronization of passifiable Lurie systems via limited capacity communication channel. , 2008, , .		2
108	Trajectory control of autonomous fixed-wing aircraft performing multiple target passive detection and tracking. , 2010, , .		2

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109	A 7GHz 1mV-input-resolution comparator with 40mV-input-referred-offset compensation capability in 65NM CMOS. , 2011, , .		2
110	A 77 GHz automotive radar transmitter in 65-nm CMOS. , 2012, , .		2
111	Analysis of ip-based communication backbone over shared wide area-network for Smart Grid applications. , 2014, , .		2
112	Turnpike theorem for terminal functionals in infinite horizon optimal control problems. Journal of Mathematical Analysis and Applications, 2015, 428, 1147-1160.	0.5	2
113	Multi-Radio Based Rendezvous Technique for Heterogeneous Cognitive Radio Sensor Network. Sensors, 2021, 21, 2997.	2.1	2
114	Stability and bifurcations in low inertia PV rich power networks. IET Generation, Transmission and Distribution, 2020, 14, 6122-6132.	1.4	2
115	Adaptive equalization algorithms for optimization of a generalized mean square cost. Information Sciences, 1981, 24, 23-42.	4.0	1
116	Discrete time stochastic adaptive control for time varying systems. , 1983, , .		1
117	Discrete 2-D system identification for imaging rotating radar targets. Signal Processing, 1992, 29, 191-211.	2.1	1
118	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
119	INFORMATION STRUCTURE CONSIDERATIONS FOR DECENTRALIZED LARGE-SCALE SYSTEMS. Asian Journal of Control, 2008, 7, 424-432.	1.9	1
120	Control of unmanned aerial vehicles performing multiple target passive detection and tracking. , 2009, , .		1
121	Analysis of Optimum Aspect Ratio of Transistor for a Low-Power and Low-Phase Noise VCO for Biomedical Applications. , 2013, , .		1
122	Fixed-Point Algorithm for Identification of Line Impedances in Low Voltage Power Networks Based on Smart Meter Data. , 2018, , .		1
123	Impact of Quantized Inter-agent Communications on Game-Theoretic and Distributed Optimization Algorithms. Systems and Control: Foundations and Applications, 2018, , 501-532.	0.1	1
124	Model selection and local geometry. Annals of Statistics, 2020, 48, .	1.4	1
125	Acyclic Linear SEMs Obey the Nested Markov Property. Uncertainty in artificial intelligence : proceedings of the ... conference., 2018, 2018, .	0.9	1
126	Continuous gravitational waves in the lab: Recovering audio signals with a table-top optical microphone. American Journal of Physics, 2022, 90, 286-296.	0.3	1



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127	Robust multivariable regulator design - General cases. , 1985, , .		0
128	Nonlinear Adaptive Control of a Synchronous Machine. IEEE Transactions on Aerospace and Electronic Systems, 1985, AES-21, 631-643.	2.6	0
129	A current-switching phase shifter for millimeter-wave applications. , 2009, , .		0
130	Graphical Latent Structure Testing. Studies in Theoretical and Applied Statistics, Selected Papers of the Statistical Societies, 2014, , 253-262.	0.2	0
131	CMOS compatible fabrication process of MEMS resonator for timing reference and sensing application. , 2015, , .		0
132	Distributed target tracking under communication constraints. , 2015, , .		0
133	EE-CAN: Energy efficient clustering in aerial networks. , 2017, , .		0
134	Gate tunable graphene break junction spin filter. , 2017, , .		0
135	Automobile radar co-channel interference modeling, simulation and outage analysis. , 2017, , .		0
136	Prime Number Theory based Multi-Radio Rendezvous for Cognitive Radio Communication. , 2019, , .		0