

# Kenneth A Loparo

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6839120/kenneth-a-loparo-publications-by-citations.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

256  
papers

5,824  
citations

42  
h-index

67  
g-index

301  
ext. papers

7,165  
ext. citations

4.3  
avg, IF

6.09  
L-index

#	Paper	IF	Citations
256	. <i>IEEE Transactions on Automatic Control</i> , <b>1992</b> , 37, 38-53	5.9	461
255	Bearing fault diagnosis based on wavelet transform and fuzzy inference. <i>Mechanical Systems and Signal Processing</i> , <b>2004</b> , 18, 1077-1095	7.8	442
254	Online tracking of bearing wear using wavelet packet decomposition and probabilistic modeling: A method for bearing prognostics. <i>Journal of Sound and Vibration</i> , <b>2007</b> , 302, 951-961	3.9	216
253	Scalable Digital Neuromorphic Architecture for Large-Scale Biophysically Meaningful Neural Network With Multi-Compartment Neurons. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , 31, 148-162	10.3	146
252	Tool wear condition monitoring in drilling operations using hidden Markov models (HMMs). <i>International Journal of Machine Tools and Manufacture</i> , <b>2001</b> , 41, 1363-1384	9.4	133
251	Stabilization of continuous-time jump linear systems. <i>IEEE Transactions on Automatic Control</i> , <b>2002</b> , 47, 1590-1603	5.9	122
250	Neurophysiologic assessment of brain maturation after an 8-week trial of skin-to-skin contact on preterm infants. <i>Clinical Neurophysiology</i> , <b>2009</b> , 120, 1812-8	4.3	114
249	. <i>IEEE Transactions on Power Systems</i> , <b>1999</b> , 14, 1342-1348	7	114
248	Stochastic stability of jump linear systems. <i>IEEE Transactions on Automatic Control</i> , <b>2002</b> , 47, 1204-1208	5.9	99
247	Estimation of the running speed and bearing defect frequencies of an induction motor from vibration data. <i>Mechanical Systems and Signal Processing</i> , <b>2004</b> , 18, 515-533	7.8	95
246	The effect of time delay on Approximate & Sample Entropy calculations. <i>Physica D: Nonlinear Phenomena</i> , <b>2008</b> , 237, 3069-3074	3.3	91
245	HMM-Based Fault Detection and Diagnosis Scheme for Rolling Element Bearings. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2005</b> , 127, 299-306	1.6	87
244	. <i>IEEE Transactions on Power Systems</i> , <b>2015</b> , 30, 2404-2416	7	78
243	The relationship between patterns of intermittent hypoxia and retinopathy of prematurity in preterm infants. <i>Pediatric Research</i> , <b>2012</b> , 72, 606-12	3.2	73
242	A neural-network approach to fault detection and diagnosis in industrial processes. <i>IEEE Transactions on Control Systems Technology</i> , <b>1997</b> , 5, 529-541	4.8	73
241	Significant postictal hypotension: expanding the spectrum of seizure-induced autonomic dysregulation. <i>Epilepsia</i> , <b>2013</b> , 54, e127-30	6.4	66
240	Bearing condition diagnosis and prognosis using applied nonlinear dynamical analysis of machine vibration signal. <i>Journal of Sound and Vibration</i> , <b>2008</b> , 317, 112-126	3.9	66

239	Real-Time Neuromorphic System for Large-Scale Conductance-Based Spiking Neural Networks. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 2490-2503	10.2	66
238	. <i>IEEE Transactions on Automatic Control</i> , <b>1994</b> , 39, 2489-2490	5.9	62
237	Automated removal of EKG artifact from EEG data using independent component analysis and continuous wavelet transformation. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2014</b> , 61, 1634-41	5	59
236	Age-specific periictal electroclinical features of generalized tonic-clonic seizures and potential risk of sudden unexpected death in epilepsy (SUDEP). <i>Epilepsy and Behavior</i> , <b>2013</b> , 29, 289-94	3.2	59
235	Fault detection and diagnosis of rotating machinery. <i>IEEE Transactions on Industrial Electronics</i> , <b>2000</b> , 47, 1005-1014	8.9	58
234	Optimal control of jump-linear gaussian systems. <i>International Journal of Control</i> , <b>1985</b> , 42, 791-819	1.5	58
233	Almost sure and moment stability of jump linear systems. <i>International Journal of Control</i> , <b>1994</b> , 59, 1281-1307	1.5	56
232	An analysis of the kangaroo care intervention using neonatal EEG complexity: a preliminary study. <i>Clinical Neurophysiology</i> , <b>2013</b> , 124, 238-46	4.3	55
231	BiCoSS: Toward Large-Scale Cognition Brain With Multigranular Neuromorphic Architecture. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	54
230	Feeder Reconfiguration for Unbalanced Distribution Systems With Distributed Generation: A Hierarchical Decentralized Approach. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 31, 1633-1642	7	53
229	Automated detection of neonate EEG sleep stages. <i>Computer Methods and Programs in Biomedicine</i> , <b>2009</b> , 95, 31-46	6.9	51
228	Voltage and Frequency Regulation of Microgrid With Battery Energy Storage Systems. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 414-424	10.7	51
227	Physically based diagnosis and prognosis of cracked rotor shafts <b>2002</b> , 4733, 122		50
226	Information technology in critical care: review of monitoring and data acquisition systems for patient care and research. <i>Scientific World Journal, The</i> , <b>2015</b> , 2015, 727694	2.2	49
225	A probabilistic mechanism for small disturbance instabilities in electric power systems. <i>IEEE Transactions on Circuits and Systems</i> , <b>1985</b> , 32, 177-184		47
224	A method for analyzing temporal patterns of variability of a time series from Poincare plots. <i>Journal of Applied Physiology</i> , <b>2012</b> , 113, 297-306	3.7	45
223	Cascading Failure Attacks in the Power System: A Stochastic Game Perspective. <i>IEEE Internet of Things Journal</i> , <b>2017</b> , 4, 2247-2259	10.7	44
222	Heart beats in the cloud: distributed analysis of electrophysiological 'Big Data' using cloud computing for epilepsy clinical research. <i>Journal of the American Medical Informatics Association: JAMIA</i> , <b>2014</b> , 21, 263-71	8.6	44

221	Active probing for information in control systems with quantized state measurements: a minimum entropy approach. <i>IEEE Transactions on Automatic Control</i> , <b>1997</b> , 42, 216-238	5.9	44
220	Post-sigh breathing behavior and spontaneous pauses in the C57BL/6J (B6) mouse. <i>Respiratory Physiology and Neurobiology</i> , <b>2008</b> , 162, 117-25	2.8	44
219	Big data analytics in power distribution systems <b>2015</b> ,		43
218	Evaluation of an automated single-channel sleep staging algorithm. <i>Nature and Science of Sleep</i> , <b>2015</b> , 7, 101-11	3.6	43
217	Nonlinear dynamical analysis of the neonatal EEG time series: the relationship between sleep state and complexity. <i>Clinical Neurophysiology</i> , <b>2008</b> , 119, 1812-1823	4.3	43
216	Left-insular damage, autonomic instability, and sudden unexpected death in epilepsy. <i>Epilepsy and Behavior</i> , <b>2016</b> , 55, 170-3	3.2	43
215	Hierarchical Decentralized Network Reconfiguration for Smart Distribution Systems Part I: Problem Formulation and Algorithm Development. <i>IEEE Transactions on Power Systems</i> , <b>2015</b> , 30, 734-743	7	42
214	. <i>IEEE Transactions on Automatic Control</i> , <b>1991</b> , 36, 167-177	5.9	41
213	Estimating the domain of attraction of nonlinear feedback systems. <i>IEEE Transactions on Automatic Control</i> , <b>1978</b> , 23, 602-608	5.9	41
212	A decision fusion algorithm for tool wear condition monitoring in drilling. <i>International Journal of Machine Tools and Manufacture</i> , <b>2001</b> , 41, 1347-1362	9.4	39
211	Minimizing the cardinality of an events set for supervisors of discrete-event dynamical systems. <i>IEEE Transactions on Automatic Control</i> , <b>1996</b> , 41, 1579-1593	5.9	38
210	Optimal state estimation for stochastic systems: an information theoretic approach. <i>IEEE Transactions on Automatic Control</i> , <b>1997</b> , 42, 771-785	5.9	37
209	Bang-bang impact control using hybrid impedance/time-delay control. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2003</b> , 8, 272-277	5.5	37
208	Performance evaluation of an automated single-channel sleep-wake detection algorithm. <i>Nature and Science of Sleep</i> , <b>2014</b> , 6, 113-22	3.6	36
207	Cortical Structures Associated With Human Blood Pressure Control. <i>JAMA Neurology</i> , <b>2018</b> , 75, 194-202	17.2	36
206	Neonatal EEG/sleep state analyses: a complex phenotype of developmental neural plasticity. <i>Developmental Neuroscience</i> , <b>2009</b> , 31, 259-75	2.2	34
205	Dynamic High-Cadence Cycling Improves Motor Symptoms in Parkinson's Disease. <i>Frontiers in Neurology</i> , <b>2015</b> , 6, 194	4.1	32
204	Incidence, Recurrence, and Risk Factors for Peri-ictal Central Apnea and Sudden Unexpected Death in Epilepsy. <i>Frontiers in Neurology</i> , <b>2019</b> , 10, 166	4.1	31

203	. <i>IEEE Transactions on Circuits and Systems</i> , <b>1990</b> , 37, 787-798		30
202	Neonatal intermittent hypoxemia events are associated with diagnosis of bronchopulmonary dysplasia at 36 weeks postmenstrual age. <i>Pediatric Research</i> , <b>2019</b> , 85, 318-323	3.2	30
201	Nonlinear dynamical analysis of the neonatal EEG time series: the relationship between neurodevelopment and complexity. <i>Clinical Neurophysiology</i> , <b>2008</b> , 119, 822-36	4.3	29
200	Quadratic regulatory theory for analytic non-linear systems with additive controls. <i>Automatica</i> , <b>1989</b> , 25, 531-544	5.7	29
199	. <i>IEEE Transactions on Smart Grid</i> , <b>2016</b> , 7, 1044-1056	10.7	28
198	. <i>IEEE Transactions on Power Systems</i> , <b>2017</b> , 32, 3237-3245	7	27
197	Automated state analyses: proposed applications to neonatal neurointensive care. <i>Journal of Clinical Neurophysiology</i> , <b>2005</b> , 22, 256-70	2.2	27
196	Automated detection of tracheal alternant during sleep in healthy full-term neonates using discrete wavelet transform. <i>Clinical Neurophysiology</i> , <b>2001</b> , 112, 1893-900	4.3	27
195	. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>1989</b> , 5, 701-710		27
194	Differences in breathing patterning during wakefulness in patients with mixed apnea-dominant vs obstructive-dominant sleep apnea. <i>Chest</i> , <b>2011</b> , 140, 54-61	5.3	26
193	Physiologic brain dysmaturity in late preterm infants. <i>Pediatric Research</i> , <b>2011</b> , 70, 524-8	3.2	26
192	Analysis of switched linear systems in the plane, part 2: Global behavior of trajectories, controllability and attainability. <i>Journal of Optimization Theory and Applications</i> , <b>1987</b> , 52, 395-427	1.6	26
191	Interpretable Convolutional Neural Network Through Layer-wise Relevance Propagation for Machine Fault Diagnosis. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 3172-3181	4	26
190	New estimates for solutions of Lyapunov equations. <i>IEEE Transactions on Automatic Control</i> , <b>1997</b> , 42, 408-411	5.9	25
189	Vagal-dependent nonlinear variability in the respiratory pattern of anesthetized, spontaneously breathing rats. <i>Journal of Applied Physiology</i> , <b>2011</b> , 111, 272-84	3.7	24
188	ESatellite: An AI-Driven System and Benchmark Datasets for Dynamic COVID-19 Risk Assessment in the United States. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2020</b> , 24, 2755-2764	7.2	24
187	Hierarchical Decentralized Network Reconfiguration for Smart Distribution Systems Part II: Applications to Test Systems. <i>IEEE Transactions on Power Systems</i> , <b>2015</b> , 30, 744-752	7	23
186	Automated Detection of Postictal Generalized EEG Suppression. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 371-377	5	23

185	Nonlinear filtering for systems with random structure. <i>IEEE Transactions on Automatic Control</i> , <b>1986</b> , 31, 1064-1068	5.9	23
184	Forward and Backward Extended Prony (FBEP) Method for Power System Small-Signal Stability Analysis. <i>IEEE Transactions on Power Systems</i> , <b>2017</b> , 32, 3618-3626	7	22
183	Closed-Loop Modulation of the Pathological Disorders of the Basal Ganglia Network. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2017</b> , 28, 371-382	10.3	21
182	Neural mass models describing possible origin of the excessive beta oscillations correlated with Parkinsonian state. <i>Neural Networks</i> , <b>2017</b> , 88, 65-73	9.1	21
181	. <i>IEEE Transactions on Industry Applications</i> , <b>2003</b> , 39, 1102-1108	4.3	21
180	Entropy-based measures for quantifying sleep-stage transition dynamics: relationship to sleep fragmentation and daytime sleepiness. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 787-96	5	20
179	Complex systems biology approach to understanding coordination of JAK-STAT signaling. <i>BioSystems</i> , <b>2007</b> , 90, 830-42	1.9	20
178	On the relationship between the sample path and moment lyapunov exponents for jump linear systems. <i>IEEE Transactions on Automatic Control</i> , <b>2002</b> , 47, 1556-1560	5.9	20
177	Prediction of neonatal state and maturational change using dimensional analysis. <i>Journal of Clinical Neurophysiology</i> , <b>2005</b> , 22, 159-65	2.2	20
176	An emulator for fixed pitch wind turbine studies. <i>Renewable Energy</i> , <b>2016</b> , 87, 391-402	8.1	19
175	Integration of renewable energy systems and challenges for dynamics, control, and automation of electrical power systems. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , <b>2019</b> , 8, e321	4.7	19
174	. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2019</b> , 27, 304-318	8.3	19
173	Multiobjective statistical method for interior drainage systems. <i>Water Resources Research</i> , <b>1980</b> , 16, 465-475	5.4	19
172	A stability theory for constrained dynamic systems with applications to electric power systems. <i>IEEE Transactions on Automatic Control</i> , <b>1996</b> , 41, 1605-1617	5.9	18
171	Closed-Loop Control of Tremor-Predominant Parkinsonian State Based on Parameter Estimation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2016</b> , 24, 1109-1121	4.8	18
170	Optimal channel selection for analysis of EEG-sleep patterns of neonates. <i>Computer Methods and Programs in Biomedicine</i> , <b>2012</b> , 106, 14-26	6.9	17
169	Data Acquisition and Complex Systems Analysis in Critical Care: Developing the Intensive Care Unit of the Future. <i>Journal of Healthcare Engineering</i> , <b>2010</b> , 1, 337-355	3.7	17
168	Non-linear adaptive sliding mode observer/controller scheme for induction motors <b>2000</b> , 14, 245-273		17

167	. <i>IEEE Transactions on Power Systems</i> , <b>1992</b> , 7, 1123-1131	7	17
166	Effects of environment light during sleep on autonomic functions of heart rate and breathing. <i>Sleep and Breathing</i> , <b>2014</b> , 18, 829-35	3.1	16
165	Analysis of switched linear systems in the plane, part 1: Local behavior of trajectories and local cycle geometry. <i>Journal of Optimization Theory and Applications</i> , <b>1987</b> , 52, 365-394	1.6	16
164	Variability in cadence during forced cycling predicts motor improvement in individuals with Parkinson's disease. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2013</b> , 21, 481-9	4.8	15
163	Dynamical analysis of Parkinsonian state emulated by hybrid Izhikevich neuron models. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2015</b> , 28, 10-26	3.7	13
162	Sequence Domain Calculation of Active Unbalanced Distribution Systems Affected by Complex Short Circuits. <i>IEEE Transactions on Power Systems</i> , <b>2018</b> , 33, 1891-1902	7	13
161	Design and Development of a Smart Exercise Bike for Motor Rehabilitation in Individuals with Parkinson's Disease. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2016</b> , 21, 1650-1658	5.5	13
160	The use of heart rate variability for the early detection of treatable complications after aneurysmal subarachnoid hemorrhage. <i>Journal of Clinical Monitoring and Computing</i> , <b>2013</b> , 27, 385-93	2	13
159	. <i>IEEE Transactions on Automatic Control</i> , <b>1989</b> , 34, 1092-1094	5.9	13
158	Stochastic stability of coupled linear systems: a survey of methods and results. <i>Stochastic Analysis and Applications</i> , <b>1984</b> , 2, 193-228	1.1	13
157	Test and Validation of a Smart Exercise Bike for Motor Rehabilitation in Individuals With Parkinson's Disease. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2016</b> , 24, 1254-1264	4.8	13
156	Polysomnographic Heart Rate Variability Indices and Atrial Ectopy Associated with Incident Atrial Fibrillation Risk in Older Community-dwelling Men. <i>JACC: Clinical Electrophysiology</i> , <b>2017</b> , 3, 451-460	4.6	12
155	A scalable neuroinformatics data flow for electrophysiological signals using MapReduce. <i>Frontiers in Neuroinformatics</i> , <b>2015</b> , 9, 4	3.9	12
154	Cardio-ventilatory coupling in young healthy resting subjects. <i>Journal of Applied Physiology</i> , <b>2012</b> , 112, 1248-57	3.7	12
153	Cyclic versus Staircase Voltammetry in Electrocatalysis: Theoretical Aspects. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, F15	3.9	12
152	Probabilistic modeling of DNA mismatch repair effects on cell cycle dynamics and iododeoxyuridine-DNA incorporation. <i>Cancer Research</i> , <b>2007</b> , 67, 10993-1000	10.1	12
151	Real-time personalized cardiac arrhythmia detection and diagnosis: A cloud computing architecture <b>2017</b> ,		11
150	A Highly Digital Multiantenna Ground-Penetrating Radar (GPR) System. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 7422-7436	5.2	11



149	Breathing irregularity during wakefulness associates with CPAP acceptance in sleep apnea. <i>Sleep and Breathing</i> , <b>2013</b> , 17, 845-52	3.1	11
148	Levitation performance of two opposed permanent magnet pole-pair separated conical bearingless motors <b>2011</b> ,		11
147	Sufficient conditions for the stability of interval matrices. <i>International Journal of Control</i> , <b>1993</b> , 58, 969-977	3.7	11
146	Novel Fault Models for Electronically Coupled Distributed Energy Resources and Their Laboratory Validation. <i>IEEE Transactions on Power Systems</i> , <b>2020</b> , 35, 1209-1217	7	11
145	A neural mass model of basal ganglia nuclei simulates pathological beta rhythm in Parkinson's disease. <i>Chaos</i> , <b>2016</b> , 26, 123113	3.3	11
144	Opinion Spam Detection Based on Heterogeneous Information Network <b>2019</b> ,		11
143	Efficient implementation of a real-time estimation system for thalamocortical hidden Parkinsonian properties. <i>Scientific Reports</i> , <b>2017</b> , 7, 40152	4.9	10
142	. <i>IEEE Transactions on Reliability</i> , <b>2013</b> , 62, 171-182	4.6	10
141	Motoring performance of a conical pole-pair separated bearingless electric machine <b>2011</b> ,		10
140	Bearingless Five-Axis Rotor Levitation with Two Pole Pair Separated Conical Motors <b>2009</b> ,		10
139	. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>1989</b> , 5, 359-362		10
138	An Application of Nonlinear Filtering to Instrument Failure Detection in a Pressurized Water Reactor. <i>Nuclear Technology</i> , <b>1986</b> , 74, 139-151	1.4	10
137	Application of Reinforcement Learning to Deep Brain Stimulation in a Computational Model of Parkinson's Disease. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2020</b> , 28, 339-349	4.8	10
136	Post-ictal Modulation of Baroreflex Sensitivity in Patients With Intractable Epilepsy. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 793	4.1	10
135	Information Extraction from Free Text in Clinical Trials with Knowledge-Based Distant Supervision <b>2019</b> ,		9
134	Voltage Regulation of DC-Microgrid With PV and Battery. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 4662-4675	4.7	9
133	Transmission system protection screening for integration of offshore wind power plants. <i>Renewable Energy</i> , <b>2018</b> , 125, 225-233	8.1	9
132	An approach for characterizing coupling in dynamical systems. <i>Physica D: Nonlinear Phenomena</i> , <b>2008</b> , 237, 2482-2486	3.3	9



131	Context Aware Image Annotation in Active Learning with Batch Mode <b>2019</b> ,		8
130	A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. <i>IEEE Transactions on Power Systems</i> , <b>2020</b> , 35, 3421-3432	7	8
129	. <i>IEEE Transactions on Automatic Control</i> , <b>1992</b> , 37, 1083-1088	5.9	8
128	Reachability properties of constrained linear systems. <i>Journal of Optimization Theory and Applications</i> , <b>1992</b> , 73, 169-195	1.6	8
127	Controllability properties of constrained linear systems. <i>Journal of Optimization Theory and Applications</i> , <b>1992</b> , 73, 329-346	1.6	8
126	Optimal policies for passive learning controllers. <i>Automatica</i> , <b>1989</b> , 25, 757-763	5.7	8
125	Neural Network-Based Closed-Loop Deep Brain Stimulation for Modulation of Pathological Oscillation in Parkinson's Disease. <i>IEEE Access</i> , <b>2020</b> , 8, 161067-161079	3.5	8
124	NeuroPigPen: A Scalable Toolkit for Processing Electrophysiological Signal Data in Neuroscience Applications Using Apache Pig. <i>Frontiers in Neuroinformatics</i> , <b>2016</b> , 10, 18	3.9	8
123	Resting-State Quantitative Electroencephalography Demonstrates Differential Connectivity in Adolescents with Major Depressive Disorder. <i>Journal of Child and Adolescent Psychopharmacology</i> , <b>2019</b> , 29, 370-377	2.9	7
122	INSMA: An integrated system for multimodal data acquisition and analysis in the intensive care unit. <i>Journal of Biomedical Informatics</i> , <b>2020</b> , 106, 103434	10.2	7
121	Noise-Induced Improvement of the Parkinsonian State: A Computational Study. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 3655-3664	10.2	7
120	A simple heuristic method for smart distribution system reconfiguration <b>2012</b> ,		7
119	Transient stability and voltage regulation in power systems with renewable distributed energy resources <b>2011</b> ,		7
118	Wavelet-based fractal analysis of the epileptic EEG signal <b>2009</b> ,		7
117	On systems and control approaches to therapeutic gain. <i>BMC Cancer</i> , <b>2006</b> , 6, 104	4.8	7
116	A sufficient condition for stability of a polytope of matrices. <i>Systems and Control Letters</i> , <b>1994</b> , 23, 237-245		7
115	Artificial Intelligence, Simulation, and Modeling. <i>Interfaces</i> , <b>1990</b> , 20, 48-66	0.7	7
114	Almost Sure Instability of the Random Harmonic Oscillator. <i>SIAM Journal on Applied Mathematics</i> , <b>1990</b> , 50, 744-759	1.8	7

113	. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 182-192	4.3	7
112	Investigating Synchronous Oscillation and Deep Brain Stimulation Treatment in A Model of Cortico-Basal Ganglia Network. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2017</b> , 25, 1950-1958	4.8	6
111	Impact of wind turbine generator type in large-scale offshore wind farms on voltage regulation in distribution feeders <b>2015</b> ,		6
110	Modeling and Analysis of Beta Oscillations in the Basal Ganglia. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2018</b> , 29, 1864-1875	10.3	6
109	Examination of scale-invariant characteristics of epileptic electroencephalograms using wavelet-based analysis. <i>Computers and Electrical Engineering</i> , <b>2014</b> , 40, 1766-1773	4.3	6
108	Isoflurane and ketamine anesthesia have different effects on ventilatory pattern variability in rats. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 185, 659-64	2.8	6
107	Passivity-based torque and flux tracking for induction motors with magnetic saturation. <i>Automatica</i> , <b>2003</b> , 39, 2123-2130	5.7	6
106	Speed control of electrical machines: unknown load torque case. <i>IEEE Transactions on Automatic Control</i> , <b>2001</b> , 46, 1979-1983	5.9	6
105	The role of coupling connections in a model of the cortico-basal ganglia-thalamocortical neural loop for the generation of beta oscillations. <i>Neural Networks</i> , <b>2020</b> , 123, 381-392	9.1	6
104	A Framework for Patient State Tracking by Classifying Multiscalar Physiologic Waveform Features. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2017</b> , 64, 2890-2900	5	5
103	Evaluation of an automated pipeline for large-scale EEG spectral analysis: the National Sleep Research Resource. <i>Sleep Medicine</i> , <b>2018</b> , 47, 126-136	4.6	5
102	An automated approach for bearing damage detection. <i>JVC/Journal of Vibration and Control</i> , <b>2016</b> , 22, 3253-3266	2	5
101	Mathematical Modeling for Description of Oscillation Suppression Induced by Deep Brain Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2018</b> , 26, 1649-1658	4.8	5
100	A Clicked-URL Feature for Transactional Query Identification <b>2019</b> ,		5
99	Comparison of complexity measures using two complex system analysis methods applied to the epileptic ECoG. <i>Journal of the Korean Physical Society</i> , <b>2013</b> , 63, 1659-1665	0.6	5
98	Modeling and simulation of grid-connected hybrid AC/DC microgrid <b>2012</b> ,		5
97	Drive latencies in hypoglossal motoneurons indicate developmental change in the brainstem respiratory network. <i>Journal of Neural Engineering</i> , <b>2011</b> , 8, 065011	5	5
96	Verification and Validation of Real-Time Adaptive Neural Networks Using ANCT Tools and Methodologies, an Application to Intelligent Flight Control Systems F-15 Project <b>2005</b> ,		5

95	Identification of time delays in linear stochastic systems. <i>International Journal of Control</i> , <b>1993</b> , 57, 1273-1391	5	5
94	Learning - based Adaptation Framework for Elastic Software Systems <b>2019</b> ,		5
93	. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 193-202	4.3	5
92	. <i>IEEE Systems Journal</i> , <b>2019</b> , 13, 3070-3079	4.3	5
91	Topic Shift Detection in Online Discussions using Structural Context <b>2019</b> ,		4
90	Ventilatory pattern variability as a biometric for severity of acute lung injury in rats. <i>Respiratory Physiology and Neurobiology</i> , <b>2019</b> , 265, 161-171	2.8	4
89	A new quantitative load profile measure for demand response performance evaluation. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 121, 106073	5.1	4
88	Agent-Based Privacy Preserving Transactive Control for Managing Peak Power Consumption. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 4883-4890	10.7	4
87	Detecting destabilizing wheelchair conditions for maintaining seated posture. <i>Disability and Rehabilitation: Assistive Technology</i> , <b>2018</b> , 13, 178-185	1.8	4
86	Delayed Feedback-Based Suppression of Pathological Oscillations in a Neural Mass Model. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 5046-5056	10.2	4
85	Simulation-based environment for modeling distributed agents for smart grid energy management <b>2011</b> ,		4
84	Feature identification in circadian rhythms of mice strains using in vivo information. <i>Mammalian Genome</i> , <b>2008</b> , 19, 366-77	3.2	4
83	An improved bounding-based method for multiarea probabilistic production costing. <i>IEEE Transactions on Power Systems</i> , <b>1996</b> , 11, 1024-1030	7	4
82	. <i>IEEE Transactions on Automatic Control</i> , <b>1989</b> , 34, 781-783	5.9	4
81	Entropy-based measures of EEG arousals as biomarkers for sleep dynamics: applications to hypertension. <i>Sleep</i> , <b>2008</b> , 31, 935-43	1.1	4
80	Transient voltage stability of offshore wind farms following faults on the collector system <b>2016</b> ,		4
79	A swarm intelligence-based approach to anomaly detection of dynamic systems. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 44, 806-827	9.8	4
78	Bifurcation Analysis of DC Electric Power Systems for Deep Space Exploration Spacecraft <b>2019</b> ,		3

77	Conversational Structure Aware and Context Sensitive Topic Model for Online Discussions <b>2020</b> ,		3
76	The Use of Software Agents for Autonomous Control of a DC Space Power System <b>2014</b> ,		3
75	Quantitative analysis of the effects of iododeoxyuridine and ionising radiation treatment on the cell cycle dynamics of DNA mismatch repair deficient human colorectal cancer cells. <i>IET Systems Biology</i> , <b>2013</b> , 7, 114-24	1.4	3
74	Integration of Principles of Systems Biology and Radiation Biology: Toward Development of in silico Models to Optimize IUdR-Mediated Radiosensitization of DNA Mismatch Repair Deficient (Damage Tolerant) Human Cancers. <i>Frontiers in Oncology</i> , <b>2011</b> , 1, 20	5.3	3
73	Investigation of temporal variability of epileptic EEG signals <b>2010</b> ,		3
72	Comparison of temporal variability of epileptic ECoG signals <b>2010</b> ,		3
71	Quantifying the complexity of neural network output using entropy measures. <i>BMC Neuroscience</i> , <b>2009</b> , 10,	3.2	3
70	A conceptual modeling framework for the study of DNA mismatch repair pathway to improve therapeutic gain in cancer treatment <b>2007</b> ,		3
69	Chaotic motion and its probabilistic description in a family of two-dimensional nonlinear systems with hysteresis. <i>Journal of Nonlinear Science</i> , <b>1992</b> , 2, 417-452	2.8	3
68	Optimal filter realization for a class of nonlinear systems with finite-dimensional estimation algebra. <i>Systems and Control Letters</i> , <b>1984</b> , 4, 23-26	2.4	3
67	Structural control of large scale systems <b>1980</b> ,		3
66	Data Collection and Analysis in the ICU <b>2020</b> , 111-134		3
65	Voltage Regulation of DC-Microgrid with PV and Battery: A Passivity Method. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 753-758	0.7	3
64	<b>2019</b> , 3, 1-4		3
63	Automated detection of atrial fibrillation from the electrocardiogram channel of polysomnograms. <i>Sleep and Breathing</i> , <b>2016</b> , 20, 515-22	3.1	2
62	Modeling challenges and potential solutions for integration of emerging DERs in DMS applications: power flow and short-circuit analysis. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2019</b> , 7, 1365-1384	4	2
61	Dynamic modeling and stability analysis of grid-connected and autonomous distributed generation system <b>2015</b> ,		2
60	Examination of Scale-Invariant Characteristics of Multi-channel ECoG Data for Epileptic Seizure Localization. <i>Journal of Medical and Biological Engineering</i> , <b>2015</b> , 35, 278-284	2.2	2

59	Decentralized network reconfiguration and restoration for smart distribution systems [Part I: Decentralized approach <b>2014</b> ,		2
58	<b>2013</b> ,		2
57	The need for advanced modeling and calculation of basic EMS and DMS applications for electronically coupled energy resources <b>2017</b> ,		2
56	A method for the inclusion of sphenoidal electrodes in realistic EEG source imaging. <i>Journal of Clinical Neurophysiology</i> , <b>2014</b> , 31, 429-36	2.2	2
55	Developing an in silico model of the modulation of base excision repair using methoxyamine for more targeted cancer therapeutics. <i>IET Systems Biology</i> , <b>2013</b> , 7, 27-37	1.4	2
54	Small-Signal Stability Enhancement of Power Systems with Renewable Distributed Energy Resources. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 513-518		2
53	A headband for classifying human postures. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 382-5	0.9	2
52	Analysis of cell cycle dynamics using probabilistic cell cycle models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 141-4	0.9	2
51	Intelligent motor provides enhanced diagnostics and control for next generation manufacturing systems. <i>Computing &amp; Control Engineering Journal</i> , <b>2000</b> , 11, 228-233		2
50	Lyapunov Exponent and Rotation Number of Two-Dimensional Linear Stochastic Systems with Telegraphic Noise. <i>SIAM Journal on Applied Mathematics</i> , <b>1993</b> , 53, 283-300	1.8	2
49	. <i>IEEE Transactions on Power Systems</i> , <b>1992</b> , 7, 528-535	7	2
48	A nonrandom spectrum for lyapunov exponents of linear stochastic systems. <i>Stochastic Analysis and Applications</i> , <b>1991</b> , 9, 25-40	1.1	2
47	Deadbeat control of discrete-time systems with singular state matrix using canonical decomposition. <i>Automatica</i> , <b>1983</b> , 19, 575-577	5.7	2
46	Heat generated in a viscoelastic fluid by couette flow in the presence of porous walls. <i>Wear</i> , <b>1983</b> , 84, 151-165	3.5	2
45	A dual controller for linear systems with random jump parameters <b>1985</b> ,		2
44	. <i>Journal of Medical and Biological Engineering</i> , <b>2013</b> ,	2.2	2
43	Hyperventilation Increases the Randomness of Ocular Palatal Tremor Waveforms. <i>Cerebellum</i> , <b>2021</b> , 20, 780-787	4.3	2
42	Forward and backward extended Prony method for complex exponential signals with/without additive noise <b>2019</b> , 86, 42-54		2

41	Eliminating Search Intent Bias in Learning to Rank <b>2020</b> ,		2
40	Gabapentin and memantine increases randomness of oscillatory waveform in ocular palatal tremor. <i>Journal of Computational Neuroscience</i> , <b>2021</b> , 49, 319-331	1.4	2
39	Emerging distribution systems: Modeling challenges in faulted conditions <b>2017</b> ,		1
38	Collection and Analysis of Multimodal Data for SUDEP Biomarker Discovery <b>2019</b> , 3,		1
37	Nonlinear generator excitation and superconducting magnetic energy storage control for transient stability enhancement via immersion and invariance. <i>Transactions of the Institute of Measurement and Control</i> , <b>2015</b> , 37, 1217-1231	1.8	1
36	Power Sharing Based Control of Hybrid Wind-Diesel Standalone Systems <b>2019</b> ,		1
35	Decentralized network reconfiguration and restoration for smart distribution systems [Part II: Distributed generation] <b>2014</b> ,		1
34	Modeling and simulation of power sharing and interaction between riders on a tandem bicycle <b>2014</b> ,		1
33	Network reconfiguration analysis with the consideration of distributed generation <b>2013</b> ,		1
32	Counteracting rotor imbalance in a bearingless motor system with feedforward control <b>2012</b> ,		1
31	Wavelet-based fractal analysis of multi-channel epileptic ECoG <b>2010</b> ,		1
30	Entropy-based Measures of EEG Arousals as Biomarkers for Sleep Dynamics: Applications to Hypertension. <i>Sleep</i> , <b>2008</b> ,	1.1	1
29	Matching a wavelet to ECG signal. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 1686-9		1
28	A new system theoretic classifier for detection and prediction of epileptic seizures. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2004</b> , 2006, 415-8		1
27	Generation of trajectory sensitivities: minimal-order realization. <i>International Journal of Control</i> , <b>1989</b> , 49, 809-825	1.5	1
26	Nonlinear filtering problems with finite-dimensional matrix estimation algebras. <i>Systems and Control Letters</i> , <b>1986</b> , 7, 423-427	2.4	1
25	Control of variable structure systems in the plane <b>1983</b> ,		1
24	Riccati group invariants of linear hamiltonian systems. <i>International Journal of Control</i> , <b>1983</b> , 38, 897-911	1.5	1

23	Continuous EEG Monitoring and Quantitative EEG Techniques <b>2020</b> , 79-109		1
22	A Scalable Pavement Sensing, Data Analytics, and Visualization Platform for Lean Governance in Smart Communities <b>2020</b> ,		1
21	Closing the loop of DBS using the beta oscillations in cortex. <i>Cognitive Neurodynamics</i> , <b>2021</b> , 15, 1157-1167	4.7	1
20	Adaptive closed-loop control strategy inhibiting pathological basal ganglia oscillations. <i>Biomedical Signal Processing and Control</i> , <b>2022</b> , 77, 103776	4.9	1
19	Oscillation suppression effects of intermittent noisy deep brain stimulation induced by coordinated reset pattern based on a computational model. <i>Biomedical Signal Processing and Control</i> , <b>2022</b> , 73, 103466	4.9	0
18	Co-designed Incentives for an Aimer Renewable Energy Contribution and Volunteer Load Shedding. <i>IET Renewable Power Generation</i> , <b>2020</b> , 14, 2287-2295	2.9	0
17	Periodicity: A Characteristic of Heart Rate Variability Modified by the Type of Mechanical Ventilation After Acute Lung Injury. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 772	4.6	
16	0763 AUTOMATED PIPELINE FOR SPECTRAL ANALYSIS OF EEG DATA: THE NATIONAL SLEEP RESEARCH RESOURCE TOOL. <i>Sleep</i> , <b>2017</b> , 40, A283-A283	1.1	
15	Early Detection of Lubrication Anomalies in Oil-Lubricated Bearings <b>2007</b> , 785		
14	Comments on "Exact control of linear systems with multiple controls". <i>IEEE Transactions on Automatic Control</i> , <b>1987</b> , 32, 1020-1021	5.9	
13	On the realization of input-decentralized representations for large-scale systems. <i>IEEE Transactions on Automatic Control</i> , <b>1985</b> , 30, 909-912	5.9	
12	An evaluation of input-decentralized and output-decentralized realizations for large-scale systems. <i>Systems and Control Letters</i> , <b>1982</b> , 1, 360-364	2.4	
11	Transitive Topic Modeling with Conversational Structure Context: Discovering Topics that are Most Popular in Online Discussions. <i>International Journal of Semantic Computing</i> , <b>2020</b> , 14, 273-293	0.7	
10	Nonlinear analysis of breathing patterns in development of acute and chronic lung injury. <i>FASEB Journal</i> , <b>2008</b> , 22, 756.13	0.9	
9	Effect of heart failure on cardiac and respiratory variability and cardioventilatory coupling. <i>FASEB Journal</i> , <b>2008</b> , 22, 970.26	0.9	
8	GABAergic transmission in the A5 area modulates sympatho-respiratory response to hypoxia and breathing pattern variability in rats. <i>FASEB Journal</i> , <b>2008</b> , 22, 954.6	0.9	
7	A Multi-center Physiological Data Repository for SUDEP: Data Curation, Data Conversion and Workflow. <i>Communications in Computer and Information Science</i> , <b>2017</b> , 66-75	0.3	
6	Investigation of Neonatal EEG Time Series Using a Modified Nonlinear Dynamical Analysis. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 326-335	0.9	



- 5 Analysis of Ventilatory Pattern Variability **2013**, 79-99
- 4 Statistical Steady-State Stability Analysis for Transmission System Planning for Offshore Wind Power Plant Integration. *Clean Technologies*, **2020**, 2, 311-332 3-4
- 3 Analysis and Enhancements of a Prolific Macroscopic Model of Epilepsy. *Scientifica*, **2016**, 2016, 36282472.6
- 2 An Information-Theoretic Framework for Complex Systems. *Mechanical Engineering*, **2018**, 140, S16-S23 0.9
- 1 A Two-Level Model Predictive Control-Based Approach for Building Energy Management including Photovoltaics, Energy Storage, Solar Forecasting and Building Loads. *Energies*, **2022**, 15, 3521 3-1