

# Rose T Faghih

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

727  
citations

687220

13  
h-index

752573

20  
g-index

49  
all docs

49  
docs citations

49  
times ranked

332  
citing authors

#	ARTICLE	IF	CITATIONS
1	Altered ultradian cortisol rhythmicity as a potential neurobiologic substrate for chronic insomnia. <i>Sleep Medicine Reviews</i> , 2018, 41, 234-243.	3.8	67
2	Deconvolution of Serum Cortisol Levels by Using Compressed Sensing. <i>PLoS ONE</i> , 2014, 9, e85204.	1.1	45
3	A State-Space Approach for Detecting Stress from Electrodermal Activity. , 2018, 2018, 3562-3567.		41
4	Sparse Deconvolution of Electrodermal Activity via Continuous-Time System Identification. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2585-2595.	2.5	41
5	Characterization of fear conditioning and fear extinction by analysis of electrodermal activity. , 2015, 2015, 7814-8.		34
6	Skin Conductance as a Viable Alternative for Closing the Deep Brain Stimulation Loop in Neuropsychiatric Disorders. <i>Frontiers in Neuroscience</i> , 2019, 13, 780.	1.4	28
7	A Bayesian Filtering Approach for Tracking Arousal From Binary and Continuous Skin Conductance Features. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1749-1760.	2.5	26
8	Quantifying Pituitary-Adrenal Dynamics and Deconvolution of Concurrent Cortisol and Adrenocorticotropic Hormone Data by Compressed Sensing. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 2379-2388.	2.5	24
9	From Physiological Signals to Pulsatile Dynamics: A Sparse System Identification Approach. , 2018, , 239-265.		23
10	An optimization formulation for characterization of pulsatile cortisol secretion. <i>Frontiers in Neuroscience</i> , 2015, 9, 228.	1.4	22
11	A mixed filter algorithm for sympathetic arousal tracking from skin conductance and heart rate measurements in Pavlovian fear conditioning. <i>PLoS ONE</i> , 2020, 15, e0231659.	1.1	22
12	Inferring Autonomic Nervous System Stimulation from Hand and Foot Skin Conductance Measurements. , 2018, , .		21
13	A Marked Point Process Filtering Approach for Tracking Sympathetic Arousal From Skin Conductance. <i>IEEE Access</i> , 2020, 8, 68499-68513.	2.6	19
14	Tonic and Phasic Decomposition of Skin Conductance Data: A Generalized-Cross-Validation-Based Block Coordinate Descent Approach. , 2019, 2019, 745-749.		18
15	State-Space Modeling and Fuzzy Feedback Control of Cognitive Stress. , 2019, 2019, 6327-6330.		17
16	A Novel Filter for Tracking Real-World Cognitive Stress using Multi-Time-Scale Point Process Observations. , 2019, 2019, 599-602.		17
17	Identification of Sympathetic Nervous System Activation From Skin Conductance: A Sparse Decomposition Approach With Physiological Priors. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1726-1736.	2.5	17
18	A Cortisol-Based Energy Decoder for Investigation of Fatigue in Hypercortisolism. , 2019, 2019, 11-14.		16

#	ARTICLE	IF	CITATIONS
19	Characterization of Cortisol Dysregulation in Fibromyalgia and Chronic Fatigue Syndromes: A State-Space Approach. IEEE Transactions on Biomedical Engineering, 2020, 67, 3163-3172.	2.5	16
20	Robust Inference of Autonomic Nervous System Activation Using Skin Conductance Measurements: A Multi-Channel Sparse System Identification Approach. IEEE Access, 2019, 7, 173419-173437.	2.6	15
21	A feedback control model for cortisol secretion. , 2011, 2011, 716-9.		13
22	Broad Range of Neural Dynamics From a Time-Varying FitzHugh-Nagumo Model and its Spiking Threshold Estimation. IEEE Transactions on Biomedical Engineering, 2012, 59, 816-823.	2.5	13
23	A System Theoretic Investigation of Cortisol Dysregulation in Fibromyalgia Patients with Chronic Fatigue. , 2019, 2019, 6896-6901.		13
24	Online and offline anger detection via electromyography analysis. , 2017, , .		12
25	Mental Workload Classification via Hierarchical Latent Dictionary Learning: A Functional Near Infrared Spectroscopy Study. , 2019, , .		12
26	Real-Time Seizure State Tracking Using Two Channels: A Mixed-Filter Approach. , 2019, , .		12
27	The Fitzhugh-Nagumo model: Firing modes with time-varying parameters & parameter estimation. , 2010, 2010, 4116-9.		11
28	Closed-Loop Cognitive Stress Regulation Using Fuzzy Control in Wearable-Machine Interface Architectures. IEEE Access, 2021, 9, 106202-106219.	2.6	10
29	Emotional Valence Tracking and Classification via State-Space Analysis of Facial Electromyography. , 2019, , .		9
30	Facial Expression-Based Emotion Classification using Electrocardiogram and Respiration Signals. , 2019, , .		8
31	A Mixed Filtering Approach for Real-Time Seizure State Tracking Using Multi-Channel Electroencephalography Data. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 2037-2045.	2.7	8
32	Estimating a dynamic state to relate neural spiking activity to behavioral signals during cognitive tasks. , 2015, 2015, 7808-13.		7
33	A Wearable Brain Machine Interface Architecture for Regulation of Energy in Hypercortisolism. , 2019, , .		7
34	Automated ovarian follicular monitoring: A novel real-time approach. , 2017, 2017, 632-635.		6
35	Emotion Recognition by Point Process Characterization of Heartbeat Dynamics. , 2019, , .		6
36	Olfactory-induced Positive Affect and Autonomic Response as a Function of Hedonic and Intensity Attributes of Fragrances. , 2020, 2020, 3170-3173.		6

#	ARTICLE	IF	CITATIONS
37	Robust point-process Granger causality analysis in presence of exogenous temporal modulations and trial-by-trial variability in spike trains. PLoS Computational Biology, 2021, 17, e1007675.	1.5	6
38	Decoding a Neurofeedback-Modulated Cognitive Arousal State to Investigate Performance Regulation by the Yerkes-Dodson Law. , 2021, 2021, 6551-6557.		6
39	A Wearable Exam Stress Dataset for Predicting Grades using Physiological Signals. , 2022, , .		6
40	Decoding a Music-Modulated Cognitive Arousal State using Electrodermal Activity and Functional Near-infrared Spectroscopy Measurements. , 2021, 2021, 1055-1060.		5
41	Sparse System Identification of Leptin Dynamics in Women With Obesity. Frontiers in Endocrinology, 2022, 13, 769951.	1.5	5
42	Enhancement of Closed-Loop Cognitive Stress Regulation Using Supervised Control Architectures. IEEE Open Journal of Engineering in Medicine and Biology, 2022, 3, 7-17.	1.7	4
43	Design of Intermittent Control for Cortisol Secretion Under Time-Varying Demand and Holding Cost Constraints. IEEE Transactions on Biomedical Engineering, 2020, 67, 556-564.	2.5	3
44	Closed-Loop Fuzzy Energy Regulation in Patients With Hypercortisolism via Inhibitory and Excitatory Intermittent Actuation. Frontiers in Neuroscience, 2021, 15, 695975.	1.4	3
45	Closed-Loop Tracking and Regulation of Emotional Valence State From Facial Electromyogram Measurements. Frontiers in Computational Neuroscience, 2022, 16, 747735.	1.2	3
46	Hybrid Decoders for Marked Point Process Observations and External Influences. IEEE Transactions on Biomedical Engineering, 2023, 70, 343-353.	2.5	2
47	Editorial: Towards the Next Generation of Deep Brain Stimulation Therapies: Technological Advancements, Computational Methods, and New Targets. Frontiers in Neuroscience, 2021, 15, 737737.	1.4	1
48	A State-space Investigation of Impact of Music on Cognitive Performance during a Working Memory Experiment. , 2021, 2021, 757-762.		1