Sabato Santaniello

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3417280/publications.pdf

Version: 2024-02-01

687363 580821 1,151 56 13 25 citations h-index g-index papers 61 61 61 1432 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|---|-------------|-----------|
| 1 | Network dynamics of the brain and influence of the epileptic seizure onset zone. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5321-30. | 7.1 | 306 |
| 2 | Closed-Loop Control of Deep Brain Stimulation: A Simulation Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 15-24. | 4.9 | 175 |
| 3 | Physiology of functional and effective networks in epilepsy. Clinical Neurophysiology, 2015, 126, 227-236. | 1.5 | 107 |
| 4 | Therapeutic mechanisms of high-frequency stimulation in Parkinson's disease and neural restoration via loop-based reinforcement. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E586-95. | 7.1 | 70 |
| 5 | Quickest detection of drug-resistant seizures: An optimal control approach. Epilepsy and Behavior, 2011, 22, S49-S60. | 1.7 | 51 |
| 6 | Non-invasive suppression of essential tremor via phase-locked disruption of its temporal coherence. Nature Communications, 2021, 12, 363. | 12.8 | 50 |
| 7 | Role of cerebellar GABAergic dysfunctions in the origins of essential tremor. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13592-13601. | 7.1 | 49 |
| 8 | Functional maturation of human neural stem cells in a 3D bioengineered brain model enriched with fetal brain-derived matrix. Scientific Reports, 2019, 9, 17874. | 3. 3 | 46 |
| 9 | Non-stationary discharge patterns in motor cortex under subthalamic nucleus deep brain stimulation. Frontiers in Integrative Neuroscience, 2012, 6, 35. | 2.1 | 26 |
| 10 | Optimal Control-Based Bayesian Detection of Clinical and Behavioral State Transitions. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 708-719. | 4.9 | 23 |
| 11 | COVID-19 detection from red blood cells using highly comparative time-series analysis (HCTSA) in digital holographic microscopy. Optics Express, 2022, 30, 1723. | 3.4 | 19 |
| 12 | Systems approaches to optimizing deep brain stimulation therapies in Parkinson's disease. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2018, 10, e1421. | 6.6 | 17 |
| 13 | Task-Independent Cognitive State Transition Detection From Cortical Neurons During 3-D Reach-to-Grasp Movements. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 676-682. | 4.9 | 15 |
| 14 | Basal Ganglia Modeling in Healthy and Parkinson's Disease State. I. Isolated Neurons Activity. Proceedings of the American Control Conference, 2007, , . | 0.0 | 13 |
| 15 | Modeling the effects of Deep Brain Stimulation on sensorimotor cortex in normal and MPTP conditions., 2010, 2010, 2081-4. | | 13 |
| 16 | Modeling the motor striatum under Deep Brain Stimulation in normal and MPTP conditions. , 2010, 2010, 2065-8. | | 12 |
| 17 | Decision Support System for Seizure Onset Zone Localization Based on Channel Ranking and High-Frequency EEG Activity. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1535-1545. | 6. 3 | 12 |
| 18 | Transcranial direct current stimulation of cerebellum alters spiking precision in cerebellar cortex: A modeling study of cellular responses. PLoS Computational Biology, 2021, 17, e1009609. | 3.2 | 12 |

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| 19 | Point process models show temporal dependencies of basal ganglia nuclei under Deep Brain Stimulation. , 2010, 2010, 4152-5. | | 11 |
| 20 | A Bayesian framework for analyzing iEEG data from a rat model of epilepsy., 2011, 2011, 1435-8. | | 11 |
| 21 | A novel HFO-based method for unsupervised localization of the seizure onset zone in drug-resistant epilepsy., 2017, 2017, 1054-1057. | | 11 |
| 22 | A biophysically inspired microelectrode recording-based model for the subthalamic nucleus activity in Parkinson's disease. Biomedical Signal Processing and Control, 2008, 3, 203-211. | 5.7 | 9 |
| 23 | Reinforcement mechanisms in putamen during high frequency STN DBS: A point process study. , 2012, 2012, 1214-7. | | 9 |
| 24 | Decoding Kinematics Using Task-Independent Movement-Phase-Specific Encoding Models. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2122-2132. | 4.9 | 8 |
| 25 | Cortical Network Synchrony Under Applied Electrical Field in vitro. Frontiers in Neuroscience, 2018, 12, 630. | 2.8 | 7 |
| 26 | Temporal Pattern of Ripple Events in Temporal Lobe Epilepsy: Towards a Pattern-based Localization of the Seizure Onset Zone., 2018, 2018, 2288-2291. | | 6 |
| 27 | Loss of KCNQ2 or KCNQ3 Leads to Multifocal Time-Varying Activity in the Neonatal Forebrain (i>Ex Vivo (i>. ENeuro, 2021, 8, ENEURO.0024-21.2021. | 1.9 | 6 |
| 28 | Basal Ganglia Modeling in Healthy and Parkinson's Disease State. II. Network-based Multi-Units Simulation. Proceedings of the American Control Conference, 2007, , . | 0.0 | 5 |
| 29 | System identification of Local Field Potentials under Deep Brain Stimulation in a healthy primate. , 2010, 2010, 4144-7. | | 5 |
| 30 | Computing network-based features from intracranial EEG time series data: Application to seizure focus localization., 2014, 2014, 5812-5. | | 5 |
| 31 | Using demographic and time series physiological features to classify sepsis in the intensive care unit., 2016, 2016, 778-782. | | 5 |
| 32 | Adaptive feedback control in deep brain stimulation: a simulation study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 11624-11629. | 0.4 | 4 |
| 33 | An Optimal Control Approach to Seizure Detection in Drug-Resistant Epilepsy. , 2014, , 153-178. | | 4 |
| 34 | Dynamic modeling and statistical characterization of subthalamic nucleus neural activity in Parkinson's disease patients. , 2006, , . | | 3 |
| 35 | The critical role of persistent sodium current in hippocampal gamma oscillations. Neuropharmacology, 2020, 162, 107787. | 4.1 | 3 |
| 36 | Closed-loop low-frequency DBS restores thalamocortical relay fidelity in a computational model of the motor loop., 2017, 2017, 1954-1957. | | 3 |

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| 37 | Identification and analysis of local field potentials in Parkinson's disease under Nonlinear Delayed Feedback Stimulation , 2010 , , . | | 2 |
| 38 | Point process modeling reveals anatomical non-uniform distribution across the Subthalamic Nucleus in Parkinson's disease., 2012, 2012, 2539-42. | | 2 |
| 39 | Quickest seizure onset detection in drug-resistant epilepsy. , 2012, , . | | 2 |
| 40 | Effects of the temporal pattern of subthalamic deep brain stimulation on the neuronal complexity in the globus pallidus., 2017, 2017, 3352-3355. | | 2 |
| 41 | DBS feedback controlled tremor suppression in Parkinson's disease., 2008,,. | | 1 |
| 42 | Analyzing Local Field Potentials in the healthy basal ganglia under Deep Brain Stimulation. , 2010, , . | | 1 |
| 43 | Quickest Detection of State-Transition in Point Processes: Application to Neuronal Activity. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10021-10026. | 0.4 | 1 |
| 44 | Automatic seizure onset detection in drug-resistant epilepsy: A Bayesian optimal solution. , 2012, , . | | 1 |
| 45 | Towards automated navigation of deep brain stimulating electrodes: Analyzing neuronal activity near the target. , $2012, $, . | | 1 |
| 46 | State Dynamics of the Epileptic Brain. , 2013, , . | | 1 |
| 47 | Generalizing performance limitations of relay neurons: Application to Parkinson's disease. , 2014, 2014, 6573-6. | | 1 |
| 48 | Modulations in Oscillatory Activity of Globus Pallidus Internus Neurons During a Directed Hand Movement Taskâ€"A Primary Mechanism for Motor Planning. Frontiers in Systems Neuroscience, 2019, 13, 15. | 2.5 | 1 |
| 49 | Editorial: Towards the Next Generation of Deep Brain Stimulation Therapies: Technological Advancements, Computational Methods, and New Targets. Frontiers in Neuroscience, 2021, 15, 737737. | 2.8 | 1 |
| 50 | Nicely Nonlinear LQ-based Control. , 2009, , . | | 0 |
| 51 | Quickest detection of state-transition in point processes: Application to neuronal activity. , $2011,$, . | | 0 |
| 52 | A point process model-based framework reveals reinforcement mechanisms in striatum during high frequency STN DBS., 2012, 2012, 1645-1650. | | 0 |
| 53 | Computing network-based features from physiological time series: Application to sepsis detection. , 2014, 2014, 3825-6. | | 0 |
| 54 | Modeling, estimation and control of neurons and neuronal networks. , 2014, , . | | 0 |

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|----|--|----|-----------|
| 55 | Modularity-Based Detection of Ripples in Scalp EEG. , 2019, , . | | 0 |
| 56 | Linear Quadratic control for restoring paralyzed muscles to standing through Functional Electrical Stimulation in paraplegic patients. , 2009, , . | | 0 |