			Thursday, March 21, 2019 - POSTER SESSION I	
Board #	**Paper #**	**Corresponding Auth**	**Paper Title**	**Sch Code**
1	165	Arcot Desai, Sharanya	Transfer-Learning for Differentiating Epileptic Patients Who Respond to Treatment Based on Chronic Ambulatory ECoG Data	ThPO.1
2	13	Kong, Linghan	The Feasibility of Using SSVEP-BCI to Provide Additional ?Hands? for Operators with Hands Fully Occupied	ThPO.2
3	22	Jiménez Ruiz, Jaime	Interactive System for Language and Communication Stimulation Directed to Young Children	ThPO.3
4	24	Zaid, Musa	Prospective Study of Percutaneous Bone-Anchored Implants in Transfemoral Amputees: Brain-Machine Platform Technology for External Prosthetic Control and Feedback	ThPO.4
5	27	Khosravi, Mahsa	Unsupervised Clustering of Micro-Electrophysiological Signals for Localization of Subthalamic Nucleus During DBS Surgery	ThPO.5
6	33	Yang, Lin	Exploring the Sensory Function Reconstruction by the Combined Surgery	ThPO.6
7	40	Zhang, Shaomin	The Effects of EMG Based Fatigue-Controlled and Forced Exercise on Motor Function Recovery: A Pilot Study	ThPO.7
8	47	Guger, Christoph	Effect of Repeating a Tactile Brain-Computer Interface on Patients with Disorder of Consciousness: A Hint of Recovery?	ThPO.8
9	48	Campbell, Evan	Differences in EMG Feature Space between Able-Bodied and Amputee Subjects for Myoelectric Control	ThPO.9
10	53	López-Larraz, Eduardo	Sensorimotor Rhythm Modulation Depends on Resting-State Oscillations and Cortex Integrity in Severely Paralyzed Stroke Patients	ThPO.10
11	66	Nahmias, David	EEG Spectral Connectivity Analysis in a Large Clinical Population	ThPO.11
12	67	Hablani, Surbhi	Neural Based Assessment of Mind Wandering During a Fatigue- Inducing Motor Task: Is Task Failure Due to Fatigue or Distraction?	ThPO.12
13	68	Song, Xiaomu	Dynamic Modeling and Classification of Epileptic EEG Data	ThPO.13
14	71	Bertucco, Matteo	Vibro-Tactile EMG-Based Biofeedback Induces Changes of Muscle Activity Patterns in Childhood Dystonia	ThPO.14
15	76	Sahani, Ashish Kumar	An EEG Based Quantitative Analysis of Absorbed Meditative State	ThPO.15
16	84	Rosanne, Olivier	Performance Comparison of Automated EEG Enhancement Algorithms for Mental Workload Assessment of Ambulant Users	ThPO.16
17	90	Bernardinis, Matthew	Visual Temporal Perception in Parkinson's Disease Analyzed Using a Computer-Generated Graphical Tool	ThPO.17
18	102	Antelis, Javier M.	Self-Paced Movement Intention Recognition from EEG Signals During Upper Limb Robot-Assisted Rehabilitation	ThPO.18
19	125	Lan, Ning	Muscle Synergy Changes with Cutaneous Stimulation During Resting Tremor and Reaching Task in Parkinson's Disease	ThPO.19
20	133	Sellers, Kristin K.	Comparison of Common Artifact Rejection Methods Applied to Direct Cortical and Peripheral Stimulation in Human ECoG	ThPO.20
21	154	Tan, Huiling	Beta Oscillation-Targeted Neurofeedback Training Based on Subthalamic LFPs in Parkinsonian Patients	ThPO.21

22	157	Rahman, Md Juber	Exacerbation in Obstructive Sleep Apnea: Early Detection and Monitoring Using a Single Channel EEG with Quadratic Discriminant Analysis	ThPO.22
23	181	Gad, Parag	Tetraplegia to Overground Stepping Using Non-Invasive Spinal Neuromodulation	ThPO.23
24	182	Ming, Dong	Transcranial Alternating Current Stimulation at Alpha Frequency Enhances Alpha Power in Human Frontal Lobe	ThPO.24
25	187	Li, Chunsheng	Rhythmical Index of Ictal High Frequency Oscillations in Stereo-Electroencephalograph from Epileptic Patients	ThPO.25
26	208	Chen, Yao	A Psychophysical and Electrophysiological Platform Using Internal Action Selection Task in Primate Parkinsonian Model	ThPO.26
27	209	Crocher, Vincent	Direct versus Indirect Visual Feedback: The Effect of Technology in NeuroRehabilitation	ThPO.27
28	213	Pham, Tuan D.	Quantification of White Matter Lesions on Brain MRI with 2D Fuzzy Weighted Recurrence Networks	ThPO.28
29	214	Helmhold, Florian	Tracking Event-Related Potentials During BMI Driven Rehabilitation	ThPO.29
30	228	Jiang, Bing	A Wearable Intraoral System for Speech Therapy Using Real-Time Closed-Loop Artificial Sensory Feedback to the Tongue	ThPO.30
31	240	Navarro, Andres	Objective Levodopa Response in Parkinson's Disease: A Study within the Medical Consultation Using an RGB-D Camera (Kinect®)	ThPO.31
32	250	Ray, Andreas Markus	Electromyographic Indices of Muscle Fatigue of a Severely Paralyzed Chronic Stroke Patient Undergoing Upper Limb Motor Rehabilitation	ThPO.32
33	263	Zhang, Yingchun	Graph-Based Brain Network Analysis in Epilepsy: An EEG Study	ThPO.33
34	1	Kirchner, Elsa Andrea	Transfer Approach for the Detection of Missed Task-Relevant Events in P300-Based Brain-Computer Interfaces	ThPO.34
35	2	Banerjee, Taposh	Sequential Detection of Regime Changes in Neural Data	ThPO.35
36	3	Segil, Jacob	Real-Time Prosthetic Digit Actuation by Optical Read-out of Activity-Dependent Calcium Signals in an Ex Vivo Peripheral Nerve	ThPO.36
37	6	Raczkowska, Marlena N.	Closed-Loop Bladder Neuromodulation Therapy in Spinal Cord Injury Rat Model	ThPO.37
38	7	Yu, Lochi	Auditory Imagery Classification with a Non-Invasive Brain Computer Interface	ThPO.38
39	8	Phyo Wai, Aung Aung	Improving the Performance of SSVEP BCI with Short Response Time by Temporal Alignments Enhanced CCA	ThPO.39
40	9	Bhattacharyya, Saugat	Target Detection in Video Feeds with Selected Dyads and Groups Assisted by Collaborative Brain-Computer Interfaces	ThPO.40
41	12	Berdichevsky, Yevgeny	Designing and Manipulating Interconnectivity between Cortical and Striatal 3D Cultures	ThPO.41
42	14	Du, Jiale	3D Stimulus Presentation of ERP-Speller in Virtual Reality	ThPO.42
43	16	Wang, Yijun	Obviating Session-To-Session Variability in a Rapid Serial Visual Presentation-Based Brain□Computer Interface	ThPO.43
44	17	Wang, Yijun	Optimizing Spatial Contrast of a New Checkerboard Stimulus for Eliciting Robust SSVEPs	ThPO.44
45	19	Lubba, Carl Henning	Efficient Peripheral Nerve Firing Characterisation through Massive Feature Extraction	ThPO.45
46	21	Ego-Stengel, Valerie	Control of a Robotic Prosthesis Simulation by a Closed-Loop Intracortical Brain-Machine Interface	ThPO.46
47	23	Yoo, Paul	Dose-Dependent Inhibition of Bladder Function by Saphenous Nerve Stimulation in Urethane-Anesthetized Rats	ThPO.47
48	25	Kunze, Anja	Neural Network Growth under Heterogenous Magnetic Gradient Patterns	ThPO.48
49	26	Balewski, Zuzanna	A Model-Based Approach for Targeted Neurophysiology in the Behaving Non-Human Primate	ThPO.49
50	28	Song, Christian	Decoder for Switching State-Space Models with Spike-Field Observations	ThPO.50

51	29	Waechter, Saskia Marleen	Cochlear Implant Artefact Reduction in Electroencephalography Data Obtained with the Auditory Oddball Paradigm and Stimuli with Differing Envelopes	ThPO.51
52	30	Ozdenizci, Ozan	Transfer Learning in Brain-Computer Interfaces with Adversarial Variational Autoencoders	ThPO.52
53	34	Wolf, Derek	Simple Quasi-Static Control of Functional Electrical Stimulation-Driven Reaching Motions	ThPO.53
54	35	Zacksenhouse, Miriam	Neural Correlates of Error Processing During Grasping with Invasive Brain-Machine Interfaces	ThPO.54
55	36	Chan, Leanne LH	Electroencephalogram Power Alterations in Retinal Degenerate Mice after Prolonged Transcorneal Electrical Stimulation	ThPO.55
56	37	Zhang, Shaomin	Volitional Modulation of Temporal Spiking Patterns Uncovers the Ability of Temporal Coding in Abstract Skills Learning	ThPO.56
57	38	Im, Maesoon	OFF Types of Mouse Retinal Ganglion Cells Are Less Sensitive to a Change in Electric Stimulus Charge Than on Type	ThPO.57
58	41	Zhang, Shaomin	Decoding Velocity from Spikes Using a New Architecture of Recurrent Neural Network	ThPO.58
59	42	Wu, Xun	Identifying Functional Brain Connectivity Patterns for EEG-Based Emotion Recognition	ThPO.59
60	43	Formstone, Lewis Allan Downie	Myographic Information Enables Hand Function Classification in Automated Fugl-Meyer Assessment	ThPO.60
61	45	Wang, Yiwen	Modeling mPFC Activities in Reinforcement Learning Framework in Brain-Machine Interfaces	ThPO.61
62	46	Wouters, Jasper	Signal-To-Peak-Interference Ratio Maximization with Automatic Interference Weighting for Threshold-Based Spike Sorting of High-Density Neural Probe Data	ThPO.62
63	49	Kohl, Manuel Christoph	Denoising of Single-Trial Event-Related Potentials by Shrinkage and Phase Regularization of Analytic Wavelet Filterbank Coefficients	ThPO.63
64	50	Iwane, Fumiaki	Inferring Subjective Preferences on Robot Trajectories Using EEG Signals	ThPO.64
65	54	O'Keeffe, Clodagh	Employing an Entropy-Based Measure of Sway to Probe Postural Stability in Fragile X Premutation Carriers	ThPO.65
66	55	Orset, Bastien	Reliable Decoding of Motor State Transitions During Imagined Movement	ThPO.66
67	56	Smoulder, Adam	Performance Evaluation of Dereferencing Methods for Estimating Information Flow in Laminar Connectivity Models	ThPO.67
68	59	Iandolo, Riccardo	A pipeline integrating high-density EEG analysis and graph theory: a feasibility study on resting state functional connectivity	ThPO.68
69	60	Richer, Natalie	Adding Neck Muscle Activity to a Head Phantom Device to Validate Mobile EEG Muscle and Motion Artifact Removal	ThPO.69
70	61	Insausti-Delgado, Ainhoa	Quantifying the Effect of Trans-Spinal Magnetic Stimulation on Spinal Excitability	ThPO.70
71	62	Jiang, Ning	User-Specific Channel Selection Method to Improve SSVEP BCI Decoding Robustness against Variable Inter-Stimulus Distance	ThPO.71
72	63	Batzianoulis, Iason	Reach-To-Grasp Motions: Towards a Dynamic Classification Approach for Upper-Limp Prosthesis	ThPO.72
73	73	Ahmadipour, Parima	Investigating the Effect of Forgetting Factor on Tracking Non-Stationary Neural Dynamics	ThPO.73
74	74	Roy, Sujit	Channel Selection Improves MEG-Based Brain-Computer Interface	ThPO.74
75	78	Liu, Feng	Sparse Multi-Task Inverse Covariance Estimation for Connectivity Analysis in EEG Source Space	ThPO.75
76	79	Khatami, Fatemeh	Continuity of Event-Related Desynchronization over the Time in Contralateral Hemisphere during Imagination of Right-Hand Movement	ThPO.76
77	80	Astrand, Elaine	Discriminating EEG Spectral Power Related to Mental Imagery of Closing and Opening of Hand	ThPO.77
78	81	Albuquerque, Isabela	Fusion of Spectral and Spectro-Temporal EEG Features for Mental Workload Assessment under Different Levels of Physical Activity	ThPO.78

79	82	Ebied, Ahmed	Consistency of Muscle Synergies Extracted Via Higher-Order Tensor Decomposition towards Myoelectric Control	ThPO.79
80	83	Artoni, Fiorenzo	P300 in the Park: Feasibility of Online Data Acquisition and Integration in a Mobile Brain/Body Imaging Setting	ThPO.80
81	85	Saboo, Krishnakant	A Computationally Efficient Model for Predicting Successful Memory Encoding Using Machine-Learning-based EEG Channel Selection	ThPO.81
82	89	Wei, Chun-Shu	Spatial Component-Wise Convolutional Network (SCCNet) for Motor-Imagery EEG Classification	ThPO.82
83	91	Hope, James	Optimal Frequency Range for Electrical Impedance Tomography of Neural Activity in Peripheral Nerve	ThPO.83
84	92	Nagarajan, Srikantan S.	Robust Bayesian Algorithm for Distributed Source Reconstructions from MEG/EEG Data	ThPO.84
85	93	Dash, Debadatta	Automatic Speech Activity Recognition from MEG Signals Using Seq2Seq Learning	ThPO.85
86	96	Guerdan, Luke	Extracting Motion-Related Subspaces from EEG in Mobile Brain/Body Imaging Studies Using Source Power Comodulation	ThPO.86
87	98	Beyeler, Michael	Biophysical Model of Axonal Stimulation in Epiretinal Visual Prostheses	ThPO.87
88	101	Hesprich, Shane	Computational Characterization of the Cellular Origins of Electroencephalography	ThPO.88
89	103	Vrabec, Tina	Accelerated Recovery of DC Blocking Using Repolarization	ThPO.89
90	107	Xie, Jun	Asynchronous Eye-Tracking-Actuated Switch for Steady-State Visual Evoked Potential Based Brain-Computer Interface Applications	ThPO.90
91	108	Chen, Fei	Analyzing Auditory Evoked Cortical Response to Noise-suppressed Speech in Cochlear Implant Users Using Mismatch Negativity	ThPO.91
92	111	Hofmann, Ulrich G.	Hemi-Parkinsonian Rat Motor/Non-Motor Symptom Evaluation with Deep Brain Stimulation	ThPO.92
93	112	Shamsi, Foroogh	Early Decoding of Tongue-Hand Movement from EEG Recordings Using Dynamic Functional Connectivity Graphs	ThPO.93
94	114	Shirazi, Seyed Yahya	Influence of Mismarking Fiducial Locations on EEG Source Estimation	ThPO.94
95	116	Ortego-Isasa, Inaki	First Steps Towards Understanding How Non-Invasive Magnetic Stimulation Affects Neural Firing at Spinal Cord	ThPO.95
96	117	Afsharipour, Babak	Variations of Tendon Tap Force Threshold Needed to Evoke Surface Electromyogram Responses after Botulinum Toxin Injection in Chronic Stroke Survivors	ThPO.96
97	118	Bi, Luzheng	EEG-Based Universal Prediction Model of Emergency Braking Intention for Brain-Controlled Vehicles	ThPO.97
98	119	Semprini, Marianna	Removal of tACS Artefact: A Simulation Study for Algorithm Comparison	ThPO.98
99	121	Yi, Guosheng	Modulation of neuronal input-output function by subthreshold electric fields from dendritic sublinear integration	ThPO.99
100	122	Ting, Chee-Ming	Classification of EEG-Based Effective Brain Connectivity in Schizophrenia Using Deep Neural Networks	ThPO.100
101	123	Taghavi, Milad	Hardware Complexity Analysis of Deep Neural Networks and Decision Tree Ensembles for Real-Time Neural Data Classification	ThPO.101
102	124	Gopakumar, Manu	Cell-Type Selective Stimulation of Neurons Based on Single Neuron Models	ThPO.102
103	126	Ahmadi, Nur	Decoding Hand Kinematics from Local Field Potentials Using Long Short-Term Memory (LSTM) Network	ThPO.103
104	129	Xu, Kedi	Effect of Epidural Electrical Stimulation on Severely Affected Forelimb Reaching and Grasping Function	ThPO.104

105	132	Jung, Tzyy-Ping	Cross-Subject Transfer Learning Improves the Practicality of Real-World Applications of Brain-Computer Interfaces	ThPO.105
106	134	Chang, Edward	Modeling Neural Dynamics During Speech Production Using a State Space Variational Autoencoder	ThPO.106
107	135	Guan, Cuntai	Motor-Controlled Spindle (MCS) Detection in BCI System	ThPO.107
108	136	Fauvet, Maxime	A Novel Method to Generalize Time-Ferquency Coherence Analysis between EEG or EMG Signals During Repetitive Trials with High Intra-Subject Variability in Duration	ThPO.108
109	137	Shen, Xiaoyan	Study on Electronic Determination Method of Conduction Pathway of Rat Primary Motor Cortex Nerve Signals in Spinal Cord	ThPO.109
110	138	Jiang, Ning	Fast Detection of Acute Cognitive Stress Measurement Via Heart Rate Variability	ThPO.110
111	142	Cunha, Joao Paulo Silva	IHandU: Towards the Validation of a Wrist Rigidity Estimation for Intraoperative DBS Electrode Position Optimization	ThPO.111
112	143	Charkhkar, Hamid	Probing Peripheral Neural Pathways in Electrically Stimulation Induced Sensation	ThPO.112
113	144	Bernarding, Corinna	Time-Resolved In-Vehicle Drowsiness Monitoring Using Multimodal Electrophysiological Data	ThPO.113
114	148	Schearer, Eric	Functional Electrical Stimulation Capability Maps	ThPO.114
115	150	Lorenzo, Jhunlyn	Identification of Synaptic Integration Mode in CA3 Pyramidal Neuron Model	ThPO.115
116	152	Chen, Chen	Estimating the Single-DoF Kinematics of Wrist from Motor Unit Behaviors	ThPO.116
117	153	Sheng, Xinjun	Continuous Estimation of Wrist Torques with Stack-Autoencoder Based Deep Neural Network: A Preliminary Study	ThPO.117
118	155	Liu, Xueqing	A Convolutional Neural Network for Transcoding Simultaneously Acquired EEG-fMRI Data	ThPO.118
119	156	Mastroianni, Timothy	Evaluation of Machine Learning Algorithms for Classifying Deep Brain Stimulation Respective of □On□ and □Off□ Status	ThPO.119
120	159	Jarrahi, Behnaz	The Nature of the Task Influences Intrinsic Connectivity Networks: An Exploratory fMRI Study in Healthy Subjects	ThPO.120
121	162	Sun, Yu	Reorganization of Temporal Brain Network Underpins Accumulative Nature of Mental Fatigue	ThPO.121
122	166	Cracchiolo, Marina	High Frequency Shift in Carotid Sinus Nerve and Sympathetic Nerve Activity in Type 2 Diabetic Rat Model	ThPO.122
123	167	LI, SI	Single Cell Grid Networks of Human Astrocytes on Chip	ThPO.123
124	168	LI, SI	Activating a 2x2 Network of hNT Astrocytes with UV Laser Stimulation	ThPO.124
125	169	Chen, Fei	Effects of Grip-Load Force and Muscle Fatigue on fNIRS Signal During Handgrip Voluntary Contraction Task	ThPO.125
126	170	Cecotti, Hubert	Dynamic Time Segment Selection in Steady State Visual Evoked Potential Detection	ThPO.126
127	171	Cecotti, Hubert	One-Class Classification of Propofol-Induced Sedation States Using EEG Signals	ThPO.127
128	172	Krusienski, Dean	Decoding Lip Movements During Continuous Speech Using Electrocorticography	ThPO.128
129	176	Krueger, Eddy	Classifier for Motor Imagery During Parametric Functional Electrical Stimulation Frequencies on the Quadriceps Muscle	ThPO.129
130	177	Xu, Fangzhou	Classification of Motor Imagery Electrocorticogram Signals for Brain-Computer Interface	ThPO.130
131	178	Williams, Jordan	Prolonged functional optical sensitivity in non-human primate motor nerves following cyclosporine-based immunosuppression and rAAV2-retro mediated expression of ChR2	ThPO.131
132	179	Shon, Ahnsei	Real-Time Electrocolonogram Monitoring and Electrical Stimulation System for Promoting Mass Peristalsis of the Colon	ThPO.132
133	183	Li, Huiyan	Digital Implementation of the Retinal Spiking Neural Network under Light Stimulation	ThPO.133
134	185	Tong, Shanbao	Activation of Sympathetic Nervous System As a Biomarker for Deep Meditation	ThPO.134

135	186	Hong, Xiangfei	Phase Transfer Entropy between Frontal and Posterior Regions During Visual Spatial Attention	ThPO.135
136	189	You, Albert	Neural Correlates of Control of a Kinematically Redundant Brain-Machine Interface	ThPO.136
137	190	Liberti, William	Local Network Coordination Supports Neuroprosthetic Control	ThPO.137
138	193	Vendrell-Llopis, Nuria	Ventral Striatum Uses a Temporal Difference Rule for Prediction During Neuroprosthetic Control	ThPO.138
139	194	Garasto, Stefania	Neural Sampling Strategies for Visual Stimulus Reconstruction from Two-Photon Imaging of Mouse Primary Visual Cortex	ThPO.139
140	195	Kritikos, Jacob	Anxiety detection from Electrodermal Activity Sensor with movement & interaction during Virtual Reality Simulation	ThPO.140
141	198	Shibly Mokatren, Lubna	EEG Classification Based on Image Configuration in Social Anxiety Disorder	ThPO.141
142	201	Dougherty, Edward	A Computation Based Approach for Modeling the Efficacy of Neurostimulation Therapies on Neural Functioning	ThPO.142
143	203	Zhu, Xiangyang	Preliminary Results on a New Algorithm for Blink Correction Adaptive to Inter- and Intra-Subject Variability	ThPO.143
144	204	Hong, Bo	Bi-Directional Visual Motion Based BCI Speller	ThPO.144
145	205	Karkera, Nidhi	Quantifying Neuromuscular Rehabilitation Using a Muscle Performance Time-Constant	ThPO.145
146	206	Gao, Xu	Modeling Local Field Potentials with Regularized Matrix Data Clustering	ThPO.146
147	207	Zippi, Ellen L.	Large-Scale Neural Consolidation in BMI Learning	ThPO.147
148	211	Li, Tian-Hao	Classification of Five Emotions from EEG and Eye Movement Signals: Discrimination Ability and Stability Over Time	ThPO.148
149	212	Zhao, Li-Ming	Classification of Five Emotions from EEG and Eye Movement Signals: Complementary Representation Properties	ThPO.149
150	215	Chen, Li-Fen	Unravelling the Spatio-Temporal Neurodynamics of Rhythm Encoding-Reproduction Networks by a Novel fMRI Autoencoder	ThPO.150
151	216	Schneider, Elena N.	A Quantitative Model of Listening Related Fatigue	ThPO.151
152	218	Bezerianos, Anastasios	Role of Cross-Frequency Coupling in the Frontal and Parieto-Occipital Subnetwork During Creative Ideation	ThPO.152
153	219	Guruswamy Ravindran, Kiran Kumar	Filter bank extensions for subject non-specific SSVEP based BCIs	ThPO.153
154	220	Dragomir, Andrei	Altered Regional Brain Communities During High Order Cognitive Processes: Relation to Vigilance Decrement	ThPO.154
155	221	Dragomir, Andrei	Topological Re-Organisation of the Brain Connectivity During Olfactory Adaptation - an EEG Functional Connectome Study	ThPO.155
156	234	Loza, Carlos	Sparse Wave Packets Discriminate Motor Tasks in EEG-Based BCIs	ThPO.156
157	11	Mikhailov, Andrey	Electrodes with Tellurium Coat Cause Focal Nerve Demyelination without Affecting Neighbour Areas	ThPO.157
158	15	Cvancara, Paul	3D Patterned Thin-Film Electrodes for Neural Prosthetics □ Proof of Concept	ThPO.158
159	20	Angotzi, Gian Nicola	A Closed-Loop System Processing High-Density Electrical Recordings and Visual Stimuli to Study Retinal Circuits Properties	ThPO.159
160	51	Ribeiro, João	Low-Cost Non-Etched Silicon Neural Probe	ThPO.160
161	52	Sabetian, Parisa	Optimizing a novel nerve cuff electrode to record bidirectional neural activity	ThPO.161
162	64	Cavuto, Matthew Luke	Investigation of Insertion Method to Achieve Chronic Recording Stability of a Semi-Rigid Implantable Neural Probe	ThPO.162

163	69	Shaikh, Shoeb	Real-Time Closed Loop Neural Decoding on a Neuromorphic Chip	ThPO.163
164	70	Bourget, Duane	Research Development Kit Enabling Expanded Spinal Cord Stimulation Research	ThPO.164
165	72	Hairston, W. David	TACS generator as method for evaluating EEG electrodes: Initial validation using pig skin	ThPO.165
166	77	Dutta, Abhishek	Cyborgs: Neuromuscular Control of Insects	ThPO.166
167	86	Kiele, Patrick	Robust and Precise Alignment Monitoring of Electrode Arrays for Capacitive Energy Supply and Signal Transmission	ThPO.167
168	87	Artoni, Fiorenzo	Myoelectric Activity Imaging and Decoding with Multichannel Surface EMG for Enhanced Everyday Life Applicability	ThPO.168
169	94	Bent, Brinnae	Simultaneous Recording and Stimulation Instrumentation for Closed Loop Spinal Cord Stimulation	ThPO.169
170	95	Hottowy, Pawel	A 0.0046 mm² Low-Distortion CMOS Neural Preamplifier for Large-Scale Neuroelectronic Interfaces	ThPO.170
171	99	Li, Jinfeng	Assessment of Single Use Dry Epidermal Electrodes for Surface Electromyography Recordings	ThPO.171
172	104	Lee, Chengkuo	Direct Stimulation of Bladder Pelvic Nerve Using Battery-Free Neural Clip Interface	ThPO.172
173	105	Liu, Xin	Decoding ECoG High Gamma Power from Cellular Calcium Response Using Transparent Graphene Microelectrodes	ThPO.173
174	109	Shah, Nishal	Optimization of Electrical Stimulation for a High-Fidelity Artificial Retina	ThPO.174
175	120	Constandinou, Timothy	Towards a Distributed, Chronically-Implantable Neural Interface	ThPO.175
176	127	Lim, Jeffrey	Dipole Cancellation As an Artifact Suppression Technique in Simultaneous Electrocorticography Stimulation and Recording	ThPO.176
177	128	Callier, Thierri	The role of microstimulation frequency in shaping artificial touch	ThPO.177
178	139	Lamont, Callum Andrew Wallace	A Bayesian Demonstration of Reliability for Encapsulated Implanted Electronics	ThPO.178
179	147	Sheng, Xinjun	eConHand: A Wearable Brain-Computer Interface System for Stroke Rehabilitation	ThPO.179
180	149	Opie, Nicholas	Neural Stimulation with a Endovascular Brain-Machine Interface	ThPO.180
181	151	Eickenscheidt, Max	Stability of Polyimide Integrated ITO Electrodes	ThPO.181
182	160	Bruns, Tim M.	Kilohertz Frequency Stimulation of Renal Nerves for Modulating Blood Glucose Concentration in Diabetic Rats	ThPO.182
183	161	John, Sam	Evaluation of a Minimally Invasive Endovascular Neural Interface for Decoding Motor Activity	ThPO.183
184	163	Shaikh, Shoeb	Experimental Comparison of Hardware-Amenable Spike Detection for IBMIs	ThPO.184
185	164	Bhatti, Pamela	Magnetic Stimulation of Dissociated Cortical Neurons on a Planar Multielectrode Array	ThPO.185
186	173	Parker, Alice	Simulation Studies of Neuronal Modulation Using Magneto-Electric Nanoparticles for Astrocyte Stimulation	ThPO.186
187	180	Ming, Dong	A Source Signal Modulation Mechanism with Pulse Focused Ultrasound for Acoustoelectric Brain Imaging	ThPO.187
188	184	Ming, Dong	Typical Electrode Configuration Analysis for Temporally Interfering Deep Brain Stimulation	ThPO.188
189	191	Swisher, Sarah	Inkjet-Printed Silver Electrode Array for In-Vivo Electrocorticography	ThPO.189
190	192	Parsnejad, Sina	Inciting High Fidelity Tactile Sensations Using a Single Electrotactile Electrode Pair	ThPO.190
191	197	Dingle, Aaron	Proof of Concept for a Chronic, Percutaneous, Osseointegrated Neural Interface for Bi-Directional Prosthetic Control with Haptic Feedback	ThPO.191
192	199	Horn, Ryne	Low Frequency Alternating Current Block - a New Method to Stop or Slow Conduction of Action Potentials	ThPO.192

193	200	Nakahara, Jared	Neural Closed-Loop Implantable Platform: A Modular FPGA-Based Neural Interface for Closed-Loop Operation	ThPO.193
194	202	Gtat, Yousef	Absolute Detection Threshold of Vibrotactile Stimulation Pulse Width and Inter-Pulse Gap	ThPO.194
195	210	Schander, Andreas	In-Vitro and In-Vivo Longevity Evaluation of Free-Floating Intracortical Silicon-Stiffened Neural Probes	ThPO.195
196	217	Pei, Weihua	Three-Dimensional Graphene As Sensing Element for Intraocular Pressure Monitoring	ThPO.196
197	223	Langenmair, Michael	Solder-Free Miniaturized Interconnection Technology for Neural Interfaces	ThPO.197
198	231	Wang, Yijun	A High-Resolution Dry Electrode Array for SSVEP-Based Brain-Computer Interfaces	ThPO.198
199	233	Sui, Xiaohong	Insulation of Carbon Nanotube Yarn Electrodes for Intrafascicular Neural Stimulation and Recording	ThPO.199
200	235	Della Valle, Elena	Simultaneous Impedance Measurements of the Utah Electrodes Array: A Finite Element Method Analysis	ThPO.200
201	241	Yoshida, Ken	Reversible Conduction Block in Peripheral Mammalian Nerve Using Low Frequency Alternating Current	ThPO.201
202	244	Yan, Dongxiao	Microneedle Penetrating Array with Axon-Sized Dimensions for Cuff-less Peripheral Nerve Interfacing	ThPO.202
203	251	Chamanzar, Maysamreza	Flexible, Monolithic, High-Density microLED Neural Probes for Simultaneous Optogenetics Stimulation and Recording	ThPO.203
204	252	Chamanzar, Maysamreza	High-Density Steeltrodes: A Novel Platform for High Resolution Recording in Primates	ThPO.204
205	274	Yin, Heyu	Microfabricated Capacitive Electrodes for High Channel Count ECoG Recording	ThPO.205
206	283	Wang, Po-Min	A Novel Biomimetic Stimulator System for Neural Implant	ThPO.206
207	289	Shen, Konlin	Ceramic Packages for Acoustically Coupled Neural Implants	ThPO.207
208	296	Ly, Phuong	A Stereotaxic Platform for Small Animals Based on 3D Computer Vision and Robotics	ThPO.208
209	311	Paul, Akshay	Electrode-Skin Impedance Characterization of In-Ear Electrophysiology Accounting for Cerumen and Electrodermal Response	ThPO.209
210	325	Loureiro, Clarissa	A New Process Using Magnetic Nanoparticles to Neuronal Cells Growth Orientation	ThPO.210
211	328	Melosh, Nicholas	A Scalable Bonding Technique for the Development of Next-Generation Brain-Machine Interfaces	ThPO.211
212	329	Chang, Eric	Optogenetic Activation of Fiber-Specific Compound Action Potentials in the Mouse Vagus Nerve	ThPO.212
213	339	Lee, Jihun	An Implantable Wireless Network of Distributed Microscale Sensors for Neural Applications	ThPO.213
214	341	Guiseppi-Elie, Anthony	Permissive Electroconductive Nanocomposites for Neuronal Progenitor Cells	ThPO.214
215	342	Chen, Oliver	Hydrogel-actuated carbon fiber neural probe	ThPO.215
216	344	Asman, Priscella	A Low-Cost Microcontroller Based Stimulation System to Study Human Sensory Processing	ThPO.216
217	469	Schuettler, Martin	Brain Interchange: A Novel Brain Computer Interface (bci) System	ThPO.217
218	145	Guarnieri, Roberto	Artifact Removal in Real-Time for hdEEG-BCI Systems	ThPO.218
219	318	Sarkar, Deblina	Nanoscale Mapping of the Fundamental Building Blocks of the Brain	ThPO.219
220	265	Zhang, Yingchun	EEG-Based Brain Network Analysis in Stroke Patients During a Motor Execution Task	ThPO.220
221	525	Zanos, Theodoros	A Framework to Isolate and Decode Neural Activity from the Rodent Vagus Nerve to Infer Immune and Metabolic States	ThPO.221