Poster Session III

Poster Number	Submission Number	Title
127	135	Comparing the spatio-temporal organization of joint spiking and local field potential oscillations in motor cortex
128	64	Turing instabilities in a mean field model of electrocortical activity
129	134	Convergence analysis of efficient online learning in Bayesian spiking neurons
130	44	STDP encodes oscillation frequency in the connections of recurrent networks of spiking neurons
131	244	Eye contact, a fundamental building block of social behavior, engages single unit activity in the monkey amygdala
132	136	Variations in spike times
133	129	A biophysically realistic computer model of Alzheimer pathology to guide the development of symptomatic drugs
134	86	Structure of the Afferent Terminals in the Terminal Ganglion of a Cricket and Persistent Homology
135	65	An agent-based approach to multi-scale neuronal network simulations using modified McCulloch-Pitts neurons
136	163	What Does Weber's Law tell us about Spike Statistics?
137	224	Tracking a trajectory of a moving stimulus by spike timing dependent plasticity
138	147	Ionic mechanisms of action potential propagation velocity changes in peripheral C-fibers. Implications for pain
139	229	Pattern variability in a computational model of respiratory rhythm generation
140	169	Cooperative effects of nonlinear dynamics and noise at tonic-to-bursting transitions
141	128	Coding, stability, and non-spatial inputs in a modular grid-to-place cell model
142	181	Cav3-KCa3.1 complex enhances detection of facilitating parallel fiber inputs in cerebellar Purkinje cells
143	35	Modeling realistic extracellular spiking activity in populations of neurons for the purpose of evaluating automatic spike-sorting algorithms
144	111	Simplified model of the frequency dependence of the LFP's spatial reach
145	139	Axonal anisotropy and connectivity inhomogeneities in 2D networks
146	54	Adaptation shapes spike train correlations: theory and applications to tinnitus
147	149	Taming the model zoo: A unified view on correlations in recurrent networks
148	24	Inhibitory interneurons enable sparse code formation in a spiking circuit model of V1
149	115	Computational Neuroscience Ontology: a new tool to provide semantic meaning to your models
150	17	Exploring the functional implications of brain architecture and connectivity: a multi-simulator framework for biophysical neuronal models
151	18	Exploring the functional implications of brain architecture and connectvity: a declarative language framework
152	19	A computational study of stochastic mechanisms in dendritic calcium spike generation
153	118	A computational study on the spatial correlation of granule cell firing in the cerebellar cortex
154	10	Improving Data Caching of the STochastic Engine for Pathway Simulation (STEPS)
155	95	Benchmarking Drosophila receptor neurons for technical applications

156	40	Determinants of associative memory performance in spiking and non-spiking neural networks with different synaptic plasticity regimes
157	164	Bistability of seizure-like bursting and silence
158	165	Homeostatic regulation in a single neuron model from the Pre-Bötzinger Complex
159	124	A computational model of posterior parietal circuits during decision making and sequential planning
160	182	Dorsal parietal area 5 only encodes the immediate reach in sequential arm movement
161	192	Compromise revisited: inhibitory synapse and electrical coupling effects on bilateral phasing in the leech heartbeat system
162	152	Understanding plasticity of chemotaxis in C. elegans, a computational model of associative learning
163	156	Size matters: modeling the effects of body shape on locomotive behavior in the nematode C. elegans
164	12	A computational study of the influence of synaptic cooperativity on synaptic plasticity in a hippocampal CA1 pyramidal cell
165	37	Geometric analysis of soft thresholds in action potential initiation and the consequences for understanding phase response curves and model tuning
166	179	Spatial Processing in Binocular Rivalry
167	47	Synchronization of entorhinal cortex stellate cells
168	56	Dysfunction of cross-frequency phase-phase coupling in primary dysmenorrhea: a resting magnetoencephalographic study
169	5	Bifurcation structure of Adaptation versus Depolarization block
170	4	Theta Entrainment of Gamma Modules: Effects of Heterogeneity and Non-stationarity
171	243	Analysis of Input-Output Relationships of CPG Elements and Their Contributions to Rhythmic Output
172	23	Exploring the relationships between neuronal parameters and network activity
173	237	Methodology for extracting activity from functional calcium imaging data
174	63	Fixed point topology and robustness to perturbations between pairs of coupled neurons
175	22	Dynamics of neuromodulatory feedback determines frequency modulation in respiratory network
176	231	Multiscale modeling with GENESIS 3, using the G-shell and Python
177	225	Neuronal transmission of timing precision: dependence on intrinsic and synaptic properties
178	3	Combining Computational Neuroscience and Body Sensor Networks to Investigate Alzheimer's Disease
179	207	Synergetic role of inhibition and excitation in bursting synchronization
180	201	A temporal model of neural activity and VSD response in V1
181	107	Inverse stochastic resonance induced by ion channel noise
182	212	Cessation of seizure-like oscillations by periodic stimulation in a neuron model with dynamic ion concentrations
183	88	Video Compressive Sensing for Dynamic MRI
184	209	Group Sparse Coding with a Collection of Winner-Take-All Networks
185	84	On the trade-off between single-neuron complexity and network size with respect to spike-timed computations
186	41	Voltage oscillations and response dynamics in a model of sensory hair cells

187	68	Modeling study of a Central Pattern Generator in the Melibe seaslug
188	240	Phase-lag return mappings for a 3 cell multifunctional central pattern generator
189	48	Chaotic dynamics as a possible mechanism of rapid change of hippocampal local field activity between theta rhythm and large irregular activity