Poster Session II

Poster Number	Submission Number	Title
64	220	Phase-locking, quasiperiodicity and chaos in periodically driven noisy neuronal models: a spectral approach
65	27	Cellular and Nuclear Morphology…and Calcium Signaling: Revealing the Interplay between Structure and Function
66	103	A compartmental model of an identified Drosophila larval motoneuron for investigating functional effects of ion channel parameters
67	191	Reducing the maximal calcium conductance in models of the pyloric network after decentralization prevents recovery
68	176	Effect of intrinsic membrane conductances on Phase Resetting Curves in a conductance-based neuron model
69	198	Investigating synaptic plasticity in the crab Cancer borealis pyloric circuit and in a computational pyloric model network database
70	66	Paw-shake response and locomotion: Can one CPG generate two different rhythmic behaviors?
71	42	Amplitude modulated photostimulation for probing neuronal network dynamics
72	193	Influence of inhibition on encoding vocalizations in the mouse auditory midbrain
74	85	Classification and visualization of neural patterns using subspace analysis statistical methods
75	79	Evaluation of target search efficiency for neurons during developmental growth
76	78	Effects of synaptic connectivity inhomogeneities for propagation of activity in neural tissue
77	158	Resistance between channels may lead to increased action potential efficiency
78	242	Bifurcation structure of phase locked modes in Type I excitable cells based on phase and spike time resetting curves
79	144	The influence of network structure on neuronal network dynamics
80	168	Ih modulates theta rhythm and synchrony in computer model of CA3
81	236	Modeling and prediction of conduction delay in an unmyelinated axon
82	52	Neural mechanism of binding amplitude information of echo sound with its frequency one in echolocating bat
83	21	Decoding in the dark: extracting information from spontaneous activity in primary visual cortex
84	20	Fano factor constancy and scale-invariant sampling in recurrent networks with probabilistic synapses
85	241	Temperature dependent transitions in excitability predicted by an electrodiffusion model of membrane potential
86	46	Slope-based stochastic resonance in phasic auditory brainstem neurons based on realistic models of channel noise
87	101	GPU Facilitated Unsupervised Visual Feature Acquisition
88	148	Theory and simulation of synaptic amplification by dendritic spines
89	90	Classification of vocalizations by recordings from the auditory midbrain
90	25	Reinforcement learning of 2-joint virtual arm reaching in motor cortex simulation
91	166	CPP alters theta/gamma oscillations in rat hippocampus: simulation and experiment
92	183	Determining information flow through a network of simulated neurons

93	99	Modeling predicts that parameters shaping action potentials and synaptic responses differ in pyramidal neurons of the visual and prefrontal cortices
94	113	What can be learned from high-resolution sleep data using ECoG
95	112	Interpretation of seizure evolution pathways via a mean-field cortical model
96	200	Optimal Neural coding in networks of heterogeneous neurons
97	34	Spike Train Distance Metric Reveals Plasticity in Discrimination of Salient Calls by Putative Excitatory Cells of the Auditory Cortex
98	58	Heterogeneous short-term plasticity enables spectral separation of information in the neural spike train
99	125	An Open Architecture for the Massively Parallel Emulation of the Drosophila Brain on Multiple GPUs
100	116	Conductance interaction identification by means of Boltzmann distribution and mutual information analysis in conductance-based neuron models
101	126	A minimal model for a slow pacemaking neuron
102	221	Impulse dynamics of coupled synchronous neurons
103	137	Encoding of touch location and intensity by neurons of the medicinal leech Hirudo medicinalis
104	175	Automated quantification of optokinetic responses based on head-movement
105	62	Behaviour Informatics: data integration for greater understanding of human and animal behaviour
106	218	Detecting Vibration Source for the Orientation Behavior of Sand Scorpions
107	60	Low-frequency EEG correlates of fMRI in the resting state
108	71	Data driven analysis of low frequency spatio-temporal dynamics in resting state MRI (rsMRI) data
109	187	Testing entropy-based search strategies for a visual classification task
110	70	Lethality of Complex Neuronal Network in Caenorhabditis elegans Nervous System based on Cell Attacks
111	45	Individual Gain/Loss Attitude, Conditional Cooperation, and Random Shifting in a Public Goods Game
112	167	Background firing rate affects the signal transfer of behavior locked input patterns from Purkinje cells to the cerebellar nuclei
113	50	Modeling the Chemical Dynamics of Chloride Ion Indicators
114	132	Individual differences in temperaments traits and complex network properties of fMRI
115	105	Modeling frequency-dependent action potential failures in CA3 pyramidal cell axons
116	15	Improved conditions for the generation of beta oscillations in the subthalamic nucleus-globus pallidus network
117	133	Dynamics of large-scale neuronal networks of the human cortex functional connectivity
118	138	Adaptive Control of 2-wheeled balancing robot by two hemispheric cerebellar neuronal network model
119	219	Reaction-Diffusion Modeling in the NEURON Simulator
120	230	Same ion channel populations and different excitabilities: Beyond the conductance-based model
121	214	From spinal cord to hippocampus: links between bifurcation structure, ion channel expression, and firing patterns in a variety of neuron types
122	143	Neuronal avalanches and the cortico-striatal network
123	109	Gamma band LFP in mouse barrel cortex is coupled to respiratory rhythm

124	142	Bistable persistent spiking of layer II and layer V medial entorhinal cortical neurons during theta frequency oscillations in vitro
125	238	Investigation of bursting patterns in a Hindmarsh-Rose type three cell network via Electronic Circuits
126	36	Cell Assembly Detection with Frequent Item Set Mining