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| LARGE-SCALE MODELS OF THE LOCOMOTOR SPINAL NETWORK OF LAMPREY | Alexander | Kozlov | akozlov@nada.kth.se |

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| PHASE-LOCKED OSCILLATIONS IN A NEURONAL NETWORK MODEL | H. | Nagashino | nagasino@ee.tokushima-u.ac.jp |

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| ROLE OF INFRASLOW (0 - 0.5 HZ) POTENTIALS OSCILLATIONS IN THE REGULATION OF BRAIN STRESS RESPONSE BY THE LOCUS COERULEUS SYSTEM | Igor V. | Filippov | filippov@yma.ac.ru |
| Neural mechanisms for respiratory rhythm generation: state dependency and switching | Ilya A. | Rybak | rybak@cbis.ece.drexel.edu |
| THETA FREQUENCY LOCKING BY SLOW GABA (A) SYNAPTIC INHIBITION IN A HIPPOCAMPAL SLM INTERNEURONAL NETWORK MODEL | Isao | Yamaguchi | isao.yamaguchi@fujixerox.co.jp |
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| Functional relevance of heterogeneous presynaptic  release-probabilities | Julia | Trommershauser | trommer@theorie.physik.uni-goettingen.de |
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| QUANTITATIVE ANALYSIS OF KERNEL PROPERTIES IN KOHONEN'S  SELF-ORGANIZING MAP ALGORITHM: BUBBLE, GAUSSIAN, AND  DIFFERENCE OF GAUSSIAN NEIGHBORHOODS | Mimi | Liljeholm | mlil@ucla.edu |
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| A Neural Field Model for Saccade Planning in the Superior Colliculus:  Speed-Accuracy Tradeoff in the Double-Target Paradigm | Stefan | Schneider | stefan.schneider@neuroinformatik.ruhr-uni-bochum.de |
| Coding of stimulus location by spike timing in rat somatosensory cortex | Rasmus S. | Petersen | petersen@sissa.it |
| The role of correlated firing and synchrony in coding information about single and separate objects in cat V1 | Stefano | Panzeri | stefano.panzeri@ncl.ac.uk |
| THE EFFECTS OF LOW CHLORIDE FLUIDS ON LIGHT RESPONSES OF THE CATFISH RETINAL NEURONS | Sung-Jong | Lee | chris@cmc.cuk.ac.kr |
| The Influence of Synaptic Connectivity on the Pattern of Bursting Behavior in Model Pyramidal Cells | Keun-Hang | Yang | khyang@erl.neuro.jhmi.edu |
| A unifed model of spatial and object attention  based on inter-cortical biased competition | Gustavo | Deco | Gustavo.Deco@mchp.siemens.de |
| A Computational Model of Attentive Visual System Induced by Cortical Neural Network | Takamasa | Koshizen | koshiz@f.rd.honda.co.jp |
| Modeling Directional Selectivity Using Self-Organizing  Delay-Adaptation Maps | Tal | Tversky | tal@cs.utexas.edu |
| A Computational Approach to Memory Deficits in Schizophrenia | Lucia M. | Talamini | talamini@psy.uva.nl |
| NemaSys:A nematode simulator for systems computati nal neuroscience | Thomas Charles | Ferree | ferree@cs.uoregon.edu |
| The size of receptive fields in inferior temporal visual cortex depend on attentional processing | Thomas P. | Trappenberg | Thomas.trappenberg@psy.ox.ac.uk |
| NONLINEAR ANALYSIS OF SPATIO-TEMPORAL RECEPTIVE FIELDS:  I. DYNAMIC APPROXIMATION METHOD | Thomas | Wennekers | Thomas.Wennekers@mis.mpg.de |
| NONLINEAR ANALYSIS OF SPATIO-TEMPORAL RECEPTIVE FIELDS:  II. DYNAMIC PROPERTIES OF V1 SIMPLE CELLS | Thomas | Wennekers | Thomas.Wennekers@mis.mpg.de |
| NONLINEAR ANALYSIS OF SPATIO-TEMPORAL RECEPTIVE FIELDS:  III. GENERIC TUNING PROPERTIES FOR RECTIFYING RATE-FUNCTIONS | Thomas | Wennekers | Thomas.Wennekers@mis.mpg.de |
| NONLINEAR ANALYSIS OF SPATIO-TEMPORAL RECEPTIVE FIELDS:  IV. RF-RECONSTRUCTION FROM MEAN-FIELD APPROXIMATIONS | Thomas | Wennekers | Thomas.Wennekers@mis.mpg.de |
| LOCAL CORRELATION-BASED ("PUSH-PULL") CIRCUITRY CAN  ACCOUNT FOR NON-LINEAR SUMMATION OF STIMULI IN A MODEL  OF CAT V1 | T.Z. | Lauritzen | tzl@phy.ucsf.edu |
| The Ground State of Cortical Feed-Forward Networks | Tom | Tetzlaff | tom@chaos.gwdg.de |

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| Modeling the layer-V cortical pyramidal neurons showing theta-rhythmic firing in the presence of muscarine | Tomoki | Fukai | tfukai@eng.tamagawa.ac.jp |
| Regulation of Coherence in Networks of Cortical Neurons Exhibiting Gamma Rhythmic Bursts | Toshio | Aoyagi | aoyagi@acs.i.kyoto-u.ac.jp |
| Input Shunt Networks and Biased Competition | Tsvi | Achler | achler@uiuc.edu |
| Synchronizing assemblies perform magnitude-invariant pattern detection | R.D. | Henkel | henkel@physik.uni-bremen.de |
| Application of Empirical Mode Decomposition and Hilbert-Transformation to Multisite Neuronal Data | Ulrich G. | Hofmann | hofmann@isip.mu-luebeck.de |
| Test of spike sorting algorithms on the basis of simulated data | Ulrich G. | Hofmann | hofmann@isip.mu-luebeck.de |
| Adaptive Filtering Algorithms for Neural Spike Trains | Uri T. | Eden | ueden@fas.harvard.edu |
| MODELLING TOPOLOGY PRESERVATION IN A CORTEX BY CONTROLLED SMOOTHING OF ITS ENERGY LANDSCAPE | Valery | Tereshko | tereshko@phys.belpak.mogilev.by |
| Stimulus representation in rat primary visual cortex: multi-electrode recordings and estimation theory | Winrich | Freiwald | freiwald@brain.uni-bremen.de |
| RECIPROCAL INHIBITION CONTROLS THE OSCILLATORY STATE IN THALAMIC NETWORKS: COMPUTATIONAL MODELING AND IN VITRO PHYSIOLOGY | Vikaas S. | Sohal | vikaas@stanford.edu |
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| Simulating the Transverse Non-Patterning Problem | Xiangbao | Wu | xw3f@virginia.edu |
| Evolution of Reinforcement Learning in Foraging Bees: A Simple Explanation for Risk-Averse Behavior | Yael | Niv | yaeln@cns.tau.ac.il |
| Role of Calmodulin and NMDA Receptor in Temporal Coding | Yoshihisa | Kubota | ykubota@cco.caltech.edu |
| Synfire Chains in a Balanced Network | Yuval | Aviel | aviel@cc.huji.ac.il |
| BUILDING A MEMORY USING BIOPHYSICALLY REALISTIC NEURONS | Zoran | Nenadic | zoran@zach.wustl.edu |
| PRINCIPAL COMPONENT ANALYSIS AND ESTIMATION IN TURTLE VISUAL CORTEX | Zoran | Nenadic | zoran@zach.wustl.edu |
| Distributed Synchrony | Zuohua | Zhang | zzhang@cs.rochester.edu |
| A GENETIC ALGORHYTM FOR OPTIMIZING A NEURAL NETWORK CAPABLE TO LEARN FOR FOOD SEARCHING IN A RADIAL MAZE | E.V. | Budilova | at@ateriokhin.home.bio.msu.ru |

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| Morphometric Modeling of Olfactory Neurons in the Insect Brain | Giampaolo | D'Alessandro | G.D'Alessandro@maths.soton.ac.uk |
| A DYNAMICAL SYSTEMS APPROACH TO NEURAL COMPUTATION WITH SPIKES WITH A MODEL OF HEAD STATE ESTIMATION FOR VESTIBULO-OCULAR REFLEX CONTROL | Michael G. | Paulin | mike.paulin@stonebow.otago.ac.nz |
| Rank Order Decoding of Temporal Parallel Fibre Input Patterns in a Comlpex Purkinje Cell Model | Volker | Steuber | volker@bbf.uia.ac.be |
| A NEW MODEL FOR Ca+2 WAVES IN ASTROCYTES: GLUTAMATE INDUCED GLUTAMATE RELEASE | Melissa | Glendening | mglenden@chem.iupui.edu |
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| UTILITY THEORY AND NEURAL NETWORK MODELING OF COST-BENEFIT DECISION-MAKING IN A PREDATORY FORAGING MARINE SNAIL | L.S. | Yafremava | liudmila@spine.npa.uiuc.edu |
| A Unifying Model of Center/Surround Modulations of V1 Receptive Fields as a Function of the Position in the Orientation Map | Peggy | Seriès | Peggy.Series@iaf.cnrs-gif.fr |
| Resurrecting Marr's bones: a new look at "A Theory of Cerebellar Cortex" | Chris | Assad | Chris.Assad@jpl.nasa.gov |
| Predictive Learning in Rate-Coded neuronal Networks | Bernd | Porr | bp1@cn.stir.ac.uk |
| Mechanistic Modeling of the Retinogeniculate Circuit in Cat | Hans E. | Plesser | hans.plesser@itf.nlh.no |
| Short-term plasticity shapes normal and Parkinsonian activity patterns in the globus pallidus. | Jesse E. | Hanson | jhanson@emory.edu |
| Wiener Kernel Estimation for Neural Systems with Natural Inputs | Garrett B. | Stanley | gstanley@deas.harvard.edu |
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| On the Functional Role of Noise Correlations in the Nervous System | Stefan D. | Wilke | swilke@physik.uni-bremen.de |
| A General Framework for Neurobiological Modeling: An Application to the Vestibular System | Chris | Eliasmith | eliasmith@uwaterloo.ca |
| POSTSYNAPTIC CURRENT ANALYSIS OF A MODEL PREFRONTAL CORTICAL CIRCUIT FOR SPATIAL WORKING MEMORY | Masafumi | Iida | masafu-i@sophia.ac.jp |
| CORRELATION ANALYSIS OF SIGNAL FLOW IN A MODEL PREFRONTAL CORTICAL CIRCUIT | Kazushige | Morooka | k-morook@sophia.ac.jp |

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| MULTI-DIRECTIONAL REPRESENTATION OF SPATIAL WORKING MEMORY IN A MODEL PREFRONTAL CORTICAL CIRCUIT | Shoji | Tanaka | tanaka-s@sophia.ac.jp |
| CIRCUIT SIMULATION OF MEMORY FIELD MODULATION BY DOPAMINE D1 RECEPTOR ACTIVATION | Kouki | Yamashita | kooki-y@sophia.ac.jp |
| SYNAPTIC INTEGRATION IN SUBPIAL CELLS | Xiao | Luo | xiaoluo@midway.uchicago.edu |
| Rate Dynamics in Integrate-and-Fire Neurons: Two Regimes and Multiple Time Scales | Todd | Troyer | todd@psyc.umd.edu |