

Wortha, Silke M. et al. "Neurofunctional plasticity in fraction learning: An fMRI training study". *Trends in Neuroscience and Education*. 2020. 21. <https://doi.org/10.1016/j.tine.2020.100141>

Ormiskangas, Jaakko et al. "Assessment of PIV performance in validating CFD models from nasal cavity CBCT scans". *Respiratory Physiology and Neurobiology*. 2020. 282. <https://doi.org/10.1016/j.resp.2020.103508>

Hyppönen, Jelena et al. "Automatic assessment of the myoclonus severity from videos recorded according to standardized Unified Myoclonus Rating Scale protocol and using human pose and body movement analysis". *Seizure*. 2020, 76. 72-78. <https://doi.org/10.1016/j.seizure.2020.01.014>

Lenk, Kerstin et al. "A Computational Model of Interactions Between Neuronal and Astrocytic Networks: The Role of Astrocytes in the Stability of the Neuronal Firing Rate". *Frontiers in Computational Neuroscience*. 2020. 13. <https://doi.org/10.3389/fncom.2019.00092>

Gracia-Tabuenca, Javier et al. "Tidal breathing flow profiles during sleep in wheezing children measured by impedance pneumography". *Respiratory Physiology and Neurobiology*. 2020. 271. <https://doi.org/10.1016/j.resp.2019.103312>

Rezaei, A., A. Koulouri, and S. Pursiainen. "Randomized Multiresolution Scanning in Focal and Fast E/MEG Sensing of Brain Activity with a Variable Depth". *Brain Topography*. 2020, 33(2). 161-175. <https://doi.org/10.1007/s10548-020-00755-8>

Lolicato, Fabio et al. "Membrane-Dependent Binding and Entry Mechanism of Dopamine into Its Receptor". *ACS Chemical Neuroscience*. 2020, 11(13). 1914–1924. <https://doi.org/10.1021/acscchemneuro.9b00656>

Teppola, Heidi, Jugoslava Aćimović, and Marja Leena Linne. "Unique Features of Network Bursts Emerge From the Complex Interplay of Excitatory and Inhibitory Receptors in Rat Neocortical Networks". *FRONTIERS IN CELLULAR NEUROSCIENCE*. 2019. 13. <https://doi.org/10.3389/fncel.2019.00377>

Alarautalahti, Virpi et al. "Viability of Mouse Retinal Explant Cultures Assessed by Preservation of Functionality and Morphology". *Investigative ophthalmology & visual science*. 2019, 60(6). 1914-1927. <https://doi.org/10.1167/iovs.18-25156>

Javanainen, Matti et al. "Reduced level of docosahexaenoic acid shifts GPCR neuroreceptors to less ordered membrane regions". *PLoS Computational Biology*. 2019. 15(5). <https://doi.org/10.1371/journal.pcbi.1007033>

Rimpiläinen, Ville et al. "Improved EEG source localization with Bayesian uncertainty modelling of unknown skull conductivity". *NeuroImage*. 2019, 188. 252-260. <https://doi.org/10.1016/j.neuroimage.2018.11.058>

Kolasa, Marcin et al. "Diffusion tensor imaging and disability progression in multiple sclerosis: A 4-year follow-up study". *Brain and Behavior*. 2019. 9(1). <https://doi.org/10.1002/brb3.1194>

Miinalainen, Tuuli et al. "A realistic, accurate and fast source modeling approach for the EEG forward problem". *NeuroImage*. 2019, 184(1). 56-67. <https://doi.org/10.1016/j.neuroimage.2018.08.054>

Klapper, Simon D. et al. "Astrocyte lineage cells are essential for functional neuronal differentiation and synapse maturation in human iPSC-derived neural networks". *Glia*. 2019, 67(10). 1893-1909. <https://doi.org/10.1002/glia.23666>

Angleraud, Alexandre, Quentin Houbre, and Roel Pieters. "Teaching semantics and skills for human-robot collaboration". *Paladyn*. 2019, 10(1). 318-329. <https://doi.org/10.1515/pjbr-2019-0025>

Rönkkö, Topi and Hilka Timonen. "Overview of Sources and Characteristics of Nanoparticles in Urban Traffic-Influenced Areas". *Journal of Alzheimer's Disease*. 2019, 72(1). 15-28. <https://doi.org/10.3233/JAD-190170>

He, Q., A. Rezaei, and S. Pursiainen. "Zeffiro User Interface for Electromagnetic Brain Imaging: a GPU Accelerated FEM Tool for Forward and Inverse Computations in Matlab". *Neuroinformatics*. 2019. <https://doi.org/10.1007/s12021-019-09436-9>

Gavas, Rahul D. et al. "Cognitive load and metacognitive confidence extraction from pupillary response". *Cognitive Systems Research*. 2018, 52. 325-334. <https://doi.org/10.1016/j.cogsys.2018.07.021>

Pantsar, Tatu et al. "Assessment of mutation probabilities of KRAS G12 missense mutants and their long-timescale dynamics by atomistic molecular simulations and Markov state modeling". *PLoS Computational Biology*. 2018. 14(9). <https://doi.org/10.1371/journal.pcbi.1006458>

Tran, Dat Thanh, Alexandros Iosifidis, and Moncef Gabbouj. "Improving efficiency in convolutional neural networks with multilinear filters". *Neural Networks*. 2018, 105. 328-339. <https://doi.org/10.1016/j.neunet.2018.05.017>

Juhola, Hanna et al. "Negatively Charged Gangliosides Promote Membrane Association of Amphipathic Neurotransmitters". *Neuroscience*. 2018, 384. 214-223. <https://doi.org/10.1016/j.neuroscience.2018.05.035>

Sonkajärvi, Eila et al. "Epileptiform and periodic EEG activities induced by rapid sevoflurane anaesthesia induction". *Clinical Neurophysiology*. 2018, 129(3). 638-645. <https://doi.org/10.1016/j.clinph.2017.12.037>

Xiao, Lin et al. "Nonlinear recurrent neural networks for finite-time solution of general time-varying linear matrix equations". *Neural Networks*. 2018, 98. 102-113. <https://doi.org/10.1016/j.neunet.2017.11.011>

Chen, Ke and Zhaoxiang Zhang. "A Primal Neural Network for Online Equality-Constrained Quadratic Programming". *Cognitive Computation*. 2018, 10(2). 381-388. <https://doi.org/10.1007/s12559-017-9510-4>

Iantovics, Laszlo Barna, Frank Emmert-Streib and Sabri Arik. "MetriIntMeas a novel metric for measuring the intelligence of a swarm of cooperating agents". *Cognitive Systems Research*. 2017, 45. 17-29. <https://doi.org/10.1016/j.cogsys.2017.04.006>

Enkavi, Giray et al. "Concerted regulation of npc2 binding to endosomal/lysosomal membranes by bis(monoacylglycero)phosphate and sphingomyelin". *PLoS Computational Biology*. 2017. 13(10). <https://doi.org/10.1371/journal.pcbi.1005831>

Sciacca, Michele F.M. et al. "Inhibition of A $\beta$  Amyloid Growth and Toxicity by Silybins: The Crucial Role of Stereochemistry". *ACS Chemical Neuroscience*. 2017, 8(8). 1767-1778. <https://doi.org/10.1021/acschemneuro.7b00110>

Satuvuori, Eero et al. "Measures of spike train synchrony for data with multiple time scales". *Journal of Neuroscience Methods*. 2017, 287. 25-38. <https://doi.org/10.1016/j.jneumeth.2017.05.028>

Vuorio, Joni, Ilpo Vattulainen and Hector Martinez-Seara. "Atomistic fingerprint of hyaluronan-CD44 binding". *PLoS Computational Biology*. 2017. 13(7). <https://doi.org/10.1371/journal.pcbi.1005663>

Mokkila, Sini et al. "Calcium Assists Dopamine Release by Preventing Aggregation on the Inner Leaflet of Presynaptic Vesicles". *ACS Chemical Neuroscience*. 2017, 8(6). 1242-1250. <https://doi.org/10.1021/acschemneuro.6b00395>

Waris, Muhammad Adeel, Alexandros Iosifidis, and Moncef Gabbouj. "CNN-based edge filtering for object proposals". *Neurocomputing*. 2017, 266. 631-640. <https://doi.org/10.1016/j.neucom.2017.05.071>

Välkki, Inkeri A. et al. "Network-wide adaptive burst detection depicts neuronal activity with improved accuracy". *Frontiers in Computational Neuroscience*. 2017. 11. <https://doi.org/10.3389/fncom.2017.00040>

Kauppi, Jukka-Pekka et al. "Functional brain segmentation using inter-subject correlation in fMRI". *Human Brain Mapping*. 2017, 38(5). 2643-2665. <https://doi.org/10.1002/hbm.23549>

Kreutzer, Joose et al. "Cell culture chamber with gas supply for prolonged recording of human neuronal cells on microelectrode array". *Journal of Neuroscience Methods*. 2017, 280. 27-35. <https://doi.org/10.1016/j.jneumeth.2017.01.019>

Moradi, Elaheh et al. "Predicting symptom severity in autism spectrum disorder based on cortical thickness measures in agglomerative data". *NeuroImage*. 2017, 144(A). 128–141. <https://doi.org/10.1016/j.neuroimage.2016.09.049>

Ilvesmäki, Tero et al. "Spinal cord injury induces widespread chronic changes in cerebral white matter". *Human Brain Mapping*. 2017, 38(7). 3637-3647. <https://doi.org/10.1002/hbm.23619>

Pursiainen, S. et al. "Advanced boundary electrode modeling for tES and parallel tES/EEG". *IEEE Transactions on Neural Systems and Rehabilitation Engineering*. 2017, 26(1). 37-44. <https://doi.org/10.1109/TNSRE.2017.2748930>

Saarela, Carina et al. "The relationship between recognition memory for emotion-laden words and white matter microstructure in normal older individuals". *NeuroReport*. 2016, 27(18). 1345-1349. <https://doi.org/10.1097/WNR.0000000000000704>

Berry, Justin et al. "Effect of rhodopsin phosphorylation on dark adaptation in mouse rods". *Journal of Neuroscience*. 2016, 36(26). 6973-6987. <https://doi.org/10.1523/JNEUROSCI.3544-15.2016>

Teppola, Heidi et al. "Morphological Differentiation Towards Neuronal Phenotype of SH-SY5Y Neuroblastoma Cells by Estradiol, Retinoic Acid and Cholesterol". *Neurochemical Research*. 2016, 41(4). 731-747. <https://doi.org/10.1007/s11064-015-1743-6>

Tohka, Jussi et al. "Comparison of Feature Selection Techniques in Machine Learning for Anatomical Brain MRI in Dementia". *Neuroinformatics*. 2016, 14(3). 279-296. <https://doi.org/10.1007/s12021-015-9292-3>

Pajula, Juha and Jussi Tohka. "How Many Is Enough? Effect of Sample Size in Inter-Subject Correlation Analysis of fMRI". *Computational Intelligence and Neuroscience*. 2016. 2016. <https://doi.org/10.1155/2016/2094601>

Iosifidis, Alexandros et al. "One-Class Classification based on Extreme Learning and Geometric Class Information". *Neural Processing Letters*. 2016, 1-16. <https://doi.org/10.1007/s11063-016-9541-y>

Sibolt, Gerli et al. "Severe cerebral white matter lesions in ischemic stroke patients are associated with less time spent at home and early institutionalization". *INTERNATIONAL JOURNAL OF STROKE*. 2015, 10(8). 1192-1196. <https://doi.org/10.1111/ijis.12578>

Kivekäs, Ilkka et al. "Eustachian tube mucosal inflammation scale validation based on digital video images". *OTOLOGY AND NEUROTOLOGY*. 2015, 36(10). 1748-1752. <https://doi.org/10.1097/MAO.0000000000000895>

Basnyat, Pabitra et al. "Elevated levels of soluble CD26 and CD30 in multiple sclerosis". *Clinical and Experimental Neuroimmunology*. 2015, 6(4). 419-425. <https://doi.org/10.1111/cen3.12253>

Sun, Lihua et al. "Human anterior thalamic nuclei are involved in emotion-attention interaction". *NEUROPSYCHOLOGIA*. 2015, 78. 88-94. <https://doi.org/10.1016/j.neuropsychologia.2015.10.001>

Spruijt-Metz, Donna et al. "Building new computational models to support health behavior change and maintenance: new opportunities in behavioral research". *Translational Behavioral Medicine*. 2015, 5(3). 335-346. <https://doi.org/10.1007/s13142-015-0324-1>

Iosifidis, Alexandros, Anastasios Tefas and Ioannis Pitas. "DropELM: Fast neural network regularization with Dropout and DropConnect". *Neurocomputing*. 2015, 162. 57-66. <https://doi.org/10.1016/j.neucom.2015.04.006>

Iosifidis, Alexandros, Anastasios Tefas and Ioannis Pitas. "Distance-based human action recognition using optimized class representations". *Neurocomputing*. 2015, 161. 47-55. <https://doi.org/10.1016/j.neucom.2014.10.088>

Tenhunen, Mirja et al. "Evaluation of the different sleep-disordered breathing patterns of the compressed tracheal sound". *Clinical Neurophysiology*. 2015, 126(8). 1557-1563. <https://doi.org/10.1016/j.clinph.2014.11.003>

Zou, Jing et al. "X-ray microtomographic confirmation of the reliability of CBCT in identifying the scalar location of cochlear implant electrode after round window insertion". *Hearing Research*. 2015, 326. 59-65. <https://doi.org/10.1016/j.heares.2015.04.005>

Basnyat, Pabitra et al. "Association between soluble L-selectin and anti-JCV antibodies in natalizumab-treated relapsing-remitting MS patients". *Multiple Sclerosis and Related Disorders*. 2015, 4(4). 334-338. <https://doi.org/10.1016/j.msard.2015.06.008>

Acimovic, Jugoslava, Tuomo Mäki-Marttunen, and Marja-Leena Linne. "The effects of neuron morphology on graph theoretic measures of network connectivity: The analysis of a two-level statistical model". *Frontiers in Neuroanatomy*. 2015. 9(June). <https://doi.org/10.3389/fnana.2015.00076>

Franco, Pedro and Alpo Värri. "Experiments of the sonification of the sleep electroencephalogram". *Finnish Journal of eHealth and eWelfare*. 2015, 7(2-3). 65-74.

Bron, Esther E. et al. "Standardized evaluation of algorithms for computer-aided diagnosis of dementia based on structural MRI: The CADDementia challenge". *NeuroImage*. 2015, 111. 562-579. <https://doi.org/10.1016/j.neuroimage.2015.01.048>

Saurus, P. et al. "Podocyte apoptosis is prevented by blocking the Toll-like receptor pathway". *CELL DEATH AND DISEASE*. 2015. 6(5). <https://doi.org/10.1038/cddis.2015.125>

Hagman, Sanna et al. "Analysis of apoptosis-related genes in patients with clinically isolated syndrome and their association with conversion to multiple sclerosis". *JOURNAL OF NEUROIMMUNOLOGY*. 2015, 280. 43-48. <https://doi.org/10.1016/j.jneuroim.2015.02.006>

Iosifidis, Alexandros. "Extreme learning machine based supervised subspace learning". *Neurocomputing*. 2015, 167. 158-164. <https://doi.org/10.1016/j.neucom.2015.04.083>

Polinati, Padmini P. et al. "Patient-specific induced pluripotent stem cell—derived RPE cells: Understanding the pathogenesis of retinopathy in long-chain 3-hydroxyacyl-CoA dehydrogenase deficiency". *Investigative Ophthalmology and Visual Science*. 2015, 56(5). 3371-3382. <https://doi.org/10.1167/iovs.14-14007>

Juuti-Uusitalo, Kati et al. "Effects of cytokine activation and oxidative stress on the function of the human embryonic stem cell—derived retinal pigment epithelial cells". *Investigative Ophthalmology and Visual Science*. 2015, 56(11). 6265-6274. <https://doi.org/10.1167/iovs.15-17333>

Möttönen, T. et al. "Defining the anterior nucleus of the thalamus (ANT) as a deep brain stimulation target in refractory epilepsy: Delineation using 3 T MRI and intraoperative microelectrode recording". *NeuroImage: Clinical*. 2015, 7. 823-829. <https://doi.org/10.1016/j.nicl.2015.03.001>

Iosifidis, Alexandros, Anastasios Tefas and Ioannis Pitas. "Regularized extreme learning machine for multi-view semi-supervised action recognition". *Neurocomputing*. 2014, 145. 250-262. <https://doi.org/10.1016/j.neucom.2014.05.036>

- Nevalainen, Olli et al. "Autoimmunity-related immunological serum markers and survival in a tertiary care cohort of adult patients with epilepsy". *EPILEPSY RESEARCH*. 2014, 108(9). 1675-1679. <https://doi.org/10.1016/j.eplepsyres.2014.08.014>
- Hartikainen, Kaisa M. et al. "Immediate effects of deep brain stimulation of anterior thalamic nuclei on executive functions and emotion-attention interaction in humans". *JOURNAL OF CLINICAL AND EXPERIMENTAL NEUROPSYCHOLOGY*. 2014, 36(5). 540-550. <https://doi.org/10.1080/13803395.2014.913554>
- Acar, Gül Ozbilen et al. "Comparison of stapedotomy minus prosthesis, circumferential stapes mobilization, and small fenestra stapedotomy for stapes fixation". *OTOLOGY AND NEUROTOLOGY*. 2014. 35(4). <https://doi.org/10.1097/MAO.0000000000000280>
- Ju, Young S.eok et al. "Origins and functional consequences of somatic mitochondrial DNA mutations in human cancer". *eLIFE*. 2014. 3. <https://doi.org/10.7554/eLife.02935>
- Iosifidis, Alexandros, Anastasios Tefas and Ioannis Pitas. "Learning sparse representations for view-independent human action recognition based on fuzzy distances". *Neurocomputing*. 2013, 121. 344-353. <https://doi.org/10.1016/j.neucom.2013.05.021>
- Sibolt, Gerli et al. "Post-stroke depression and depression-executive dysfunction syndrome are associated with recurrence of ischaemic stroke". *CEREBROVASCULAR DISEASES*. 2013, 36(5-6). 336-343. <https://doi.org/10.1159/000355145>
- Pelkonen, Anssi, Pekka Kallunki and Leonid Yavich. "Effects of exogenous alpha-synuclein on stimulated dopamine overflow in dorsal striatum". *Neuroscience Letters*. 2013, 554. 141-145. <https://doi.org/10.1016/j.neulet.2013.08.072>
- Faisal, Ali et al. "Transfer learning using a nonparametric sparse topic model". *Neurocomputing*. 2013, 112. 124-137. <https://doi.org/10.1016/j.neucom.2012.12.038>
- Kaipio, Marja Liisa et al. "Mismatch negativity abnormality in traumatic brain injury without macroscopic lesions on conventional MRI". *NeuroReport*. 2013, 24(8). 440-444. <https://doi.org/10.1097/WNR.0b013e32836164b4>
- Mäkinen, M. et al. "Fluorescent probes as a tool for cell population tracking in spontaneously active neural networks derived from human pluripotent stem cells". *Journal of Neuroscience Methods*. 2013, 215(1). 88-96. <https://doi.org/10.1016/j.jneumeth.2013.02.019>
- Emmert-Streib, Frank. "Influence of the experimental design of gene expression studies on the inference of gene regulatory networks: Environmental factors". *PeerJ*. 2013. 2013(1). <https://doi.org/10.7717/peerj.10>
- Salminen, Aaro V. et al. "Disconnection between periodic leg movements and cortical arousals in spinal cord injury". *JOURNAL OF CLINICAL SLEEP MEDICINE*. 2013, 9(11). 1207-1209. <https://doi.org/10.5664/jcsm.3174>
- Nevalainen, Olli et al. "Mortality by clinical characteristics in a tertiary care cohort of adult patients with chronic epilepsy". *EPILEPSIA*. 2012. 53(12). <https://doi.org/10.1111/epi.12006>
- Melkas, S. et al. "Extensive white matter changes predict stroke recurrence up to 5 years after a first-ever ischemic stroke". *CEREBROVASCULAR DISEASES*. 2012, 34(3). 191-198. <https://doi.org/10.1159/000341404>
- Natarajan, Renuka et al. "Melatonin pathway genes are associated with progressive subtypes and disability status in multiple sclerosis among Finnish patients". *JOURNAL OF NEUROIMMUNOLOGY*. 2012, 250(1-2). 106-110. <https://doi.org/10.1016/j.jneuroim.2012.05.014>

Sharma, Vivek et al. "Neuroprotective effect of RO-20-1724-a phosphodiesterase4 inhibitor against intracerebroventricular streptozotocin induced cognitive deficit and oxidative stress in rats". *PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR*. 2012, 101(2). 239-245. <https://doi.org/10.1016/j.pbb.2012.01.004>

Dixit, D. et al. "Inhibition of Casein kinase-2 induces p53-dependent cell cycle arrest and sensitizes glioblastoma cells to tumor necrosis factor (TNF $\alpha$ )-induced apoptosis through SIRT1 inhibition". *CELL DEATH AND DISEASE*. 2012. 3(2). <https://doi.org/10.1038/cddis.2012.10>

Pelkonen, Anssi and Leonid Yavich. "Cortical spreading depression in alpha-synuclein knockout mice". *SYNAPSE*. 2012, 66(1). 81-84. <https://doi.org/10.1002/syn.20980>

Sharmin, Selina, Oleg Špakov and Kari Jouko Rähkä. "The effect of different text presentation formats on eye movement metrics in reading". *JOURNAL OF EYE MOVEMENT RESEARCH*. 2012. 5(3).

Sharma, Vivek et al. "COX-2 regulates the proliferation of glioma stem like cells". *NEUROCHEMISTRY INTERNATIONAL*. 2011, 59(5). 567-571. <https://doi.org/10.1016/j.neuint.2011.06.018>

Emmert-Streib, Frank and Galina V. Glazko. "Pathway analysis of expression data: Deciphering functional building blocks of complex diseases". *PLoS Computational Biology*. 2011. 7(5). <https://doi.org/10.1371/journal.pcbi.1002053>

Hagman, Sanna et al. "Disease-associated inflammatory biomarker profiles in blood in different subtypes of multiple sclerosis: Prospective clinical and MRI follow-up study". *JOURNAL OF NEUROIMMUNOLOGY*. 2011, 234(1-2). 141-147. <https://doi.org/10.1016/j.jneuroim.2011.02.009>

Heikkinen, H. et al. "Mesopic background lights enhance dark-adapted cone ERG flash responses in the intact mouse retina: A possible role for gap junctional decoupling". *Journal of Neurophysiology*. 2011, 105(5). 2309-2318. <https://doi.org/10.1152/jn.00536.2010>

Malmivaara, K. et al. "Cost-effectiveness of decompressive craniectomy in non-traumatic neurological emergencies". *European Journal of Neurology*. 2011, 18(3). 402-409. <https://doi.org/10.1111/j.1468-1331.2010.03162.x>

Pajarinen, Joni, Jaakko Peltonen and Mikko A. Uusitalo. "Fault tolerant machine learning for nanoscale cognitive radio". *Neurocomputing*. 2011, 74(5). 753-764. <https://doi.org/10.1016/j.neucom.2010.10.007>

Pelkonen, Anssi and Leonid Yavich. "Neuromuscular pathology in mice lacking alpha-synuclein". *Neuroscience Letters*. 2011, 487(3). 350-353. <https://doi.org/10.1016/j.neulet.2010.10.054>

Emmert-Streib, Frank. "Influence of the neural network topology on the learning dynamics". *Neurocomputing*. 2006, 69(10-12). 1179-1182. <https://doi.org/10.1016/j.neucom.2005.12.070>

Otterpohl, J. R., F. Emmert-Streib and K. Pawelzik. "A constrained HMM-based approach to the estimation of perceptual switching dynamics in pigeons". *Neurocomputing*. 2001, 38-40. 1495-1501. [https://doi.org/10.1016/S0925-2312\(01\)00511-2](https://doi.org/10.1016/S0925-2312(01)00511-2)

Otterpohl, J. R. et al. "Erratum: Extracting the dynamics of perceptual switching from 'noisy' behaviour: An application of hidden Markov modelling to pecking data from pigeons (Journal of Physiology Paris (2000) 94:5-6 (555-567) PII: S0928425700010950)". *Journal of Physiology: Paris*. 2001, 95(1-6). 497. [https://doi.org/10.1016/S0928-4257\(01\)00091-2](https://doi.org/10.1016/S0928-4257(01)00091-2)

Otterpohl, J. R. et al. "Extracting the dynamics of perceptual switching from 'noisy' behaviour: An application of hidden Markov modelling to pecking data from pigeons". *Journal of Physiology: Paris*. 2000, 94(5-6). 555-567. [https://doi.org/10.1016/S0928-4257\(00\)01095-0](https://doi.org/10.1016/S0928-4257(00)01095-0)

- Puhakka, Ilmari J.A. and Mikko J. Peltola. "Salivary cortisol reactivity to psychological stressors in infancy: A meta-analysis". *PSYCHONEUROENDOCRINOLOGY*. 2020. 115. <https://doi.org/10.1016/j.psyneuen.2020.104603>
- Oschmann, Franziska et al. "From in silico astrocyte cell models to neuron-astrocyte network models: A review". *BRAIN RESEARCH BULLETIN*. 2018, 136. 76-84. <https://doi.org/10.1016/j.brainresbull.2017.01.027>
- Ylä-Outinen, Laura et al. "Advances in Human Stem Cell-Derived Neuronal Cell Culturing and Analysis". *In Vitro Neuronal Networks: From Culturing Methods to Neuro-Technological Applications*. Advances in Neurobiology. Springer New York LLC. 2019, 299-329. [https://doi.org/10.1007/978-3-030-11135-9\\_13](https://doi.org/10.1007/978-3-030-11135-9_13)
- Tavakoli, Hamed Rezazadegan et al. "Deep audio-visual saliency: Baseline model and data". Spencer, Stephen N. (ed.). *Proceedings ETRA 2020 Short Papers - ACM Symposium on Eye Tracking Research and Applications, ETRA 2020*. ACM. 2020. <https://doi.org/10.1145/3379156.3391337>
- Angleraud, Alexandre et al. "Human-robot interactive learning architecture using ontologies and symbol manipulation". *RO-MAN 2018 - 27th IEEE International Symposium on Robot and Human Interactive Communication: August 27-31, 2018, Nanjing, China.. IEEE RO-MAN*. IEEE. 2018, 384-389. <https://doi.org/10.1109/ROMAN.2018.8525580>
- Tanskanen, Jarno M.A. et al. "Automatic objective thresholding to detect neuronal action potentials". *Proceedings of 2016 24th European Signal Processing Conference (EUSIPCO)*. 2016, 662-666. <https://doi.org/10.1109/EUSIPCO.2016.7760331>
- Acimovic, Jugoslava, Tuomo Mikael Mäki-Marttunen, and Marja-Leena Linne "Whole-cell morphological properties of neurons constrain the nonrandom features of network connectivity". and Cymbalyuk, Gennady Burkitt, Anthony (editors). *24th Annual Computational Neuroscience Meeting: CNS\*2015*. Chapter Volume 16 (Suppl 1), Prague: BioMed Central. 2015, P:07.
- Špakov, Oleg and Yulia Gizatdinova "Real-time hidden gaze point correction". *Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014*. Association for Computing Machinery. 2014, 291-294. <https://doi.org/10.1145/2578153.2578200>
- Akkil, Deepak et al. "TraQuMe: A tool for measuring the gaze tracking quality". *Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014*. Association for Computing Machinery. 2014, 327-330. <https://doi.org/10.1145/2578153.2578192>
- Špakov, Oleg, Poika Isokoski and Päivi Majaranta "Look and lean: Accurate head-assisted eye pointing". *Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014*. Association for Computing Machinery. 2014, 35-42. <https://doi.org/10.1145/2578153.2578157>
- Kangas, Jari et al. "Haptic feedback to gaze events". *Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014*. Association for Computing Machinery. 2014, 11-18. <https://doi.org/10.1145/2578153.2578154>
- Mäki-Marttunen, Tuomo Mikael et al. "On the effect of network structure and synaptic mechanisms on sustained bursting activity". and Cymbalyuk, Gennady Prinz, Astrid (editors). *Twenty Second Annual Computational Neuroscience Meeting: CNS\*2013*. Chapter 14(Suppl 1), Paris, France: BioMed Central. 2013, P247.
- Mäki-Marttunen, Tuomo Mikael et al. "In silico study on structure and dynamics in bursting neuronal networks". *Neuroscience 2012; 42nd Annual Meeting, New Orleans, USA, October 14-18, 2012*. Society for Neuroscience (SfN). 2012.
- Mäki-Marttunen, Tuomo Mikael et al. "Significance of graph theoretic measures in predicting neuronal network activity". *Proceedings of The 9th annual Computational and Systems Neuroscience meeting (COSYNE 2012)*. Salt Lake City. 2012, 55-55.

Hyrskykari, Aulikki, Howell Istance and Stephen Vickers "Gaze gestures or dwell-based interaction?". *Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium*. 2012, 229-232. <https://doi.org/10.1145/2168556.2168602>

Špakov, Oleg "Comparison of eye movement filters used in HCI". *Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium*. 2012, 281-284. <https://doi.org/10.1145/2168556.2168616>

Heikkilä, Henna and Kari Jouko Rähä "Simple gaze gestures and the closure of the eyes as an interaction technique". *Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium*. 2012, 147-154. <https://doi.org/10.1145/2168556.2168579>

Istance, Howell, Stephen Vickers and Aulikki Hyrskykari "The validity of using non-representative users in gaze communication research". *Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium*. 2012, 233-236. <https://doi.org/10.1145/2168556.2168603>

Acimovic, Jugoslava "Emergence of global and local structural features during development of neuronal networks". *Proceedings of the Eighth International Workshop on Computational Systems Biology, WCSB 2011, June 6-8, 2011, Zürich, Switzerland*. TICSP Series. Tampere: TICSP. 2011.

Mäki-Marttunen, Tuomo et al. "Effects of structure on spontaneous activity in simulated neuronal networks". *Proceedings of Mathematical Neuroscience (ICMS 2011), April 11-13, 2011, Edinburgh, Scotland*. 2011.

Acimovic, Jugoslava, Tuomo Mäki-Marttunen, and Marja-Leena Linne "Computational study of structural changes in neuronal networks during growth: a model of dissociated neocortical cultures". and Fellous, Jean-Marc Prinz, Astrid (editors). *Twentieth Annual Computational Neuroscience Meeting: CNS\*2011*. Chapter volume 12 (Suppl 1), Annual Computational Neuroscience Meeting CNS. Stockholm: BioMed Central. 2011, P203. <https://doi.org/10.1186/1471-2202-12-S1-P203>

Acimovic, Jugoslava, Tuomo Mäki-Marttunen, and Marja-Leena Linne "Computational modeling of growth in cortical cultures using the NETMORPH simulation tool". *Neuroscience 2010, 40th Annual Meeting, San Diego, USA, 13-17 November 2010*. 2010, 2 p.

Acimovic, Jugoslava et al. "Computational tools for assessing the properties of 2D neural cell cultures". Johnson, Don (ed.). *Eighteenth Annual Computational Neuroscience Meeting: CNS\*2009*. Chapter Volume 10 (Suppl 1), Berlin: BioMed Central. 2009, P170.

Tenhunen, Mirja, Joel Hasan and Sari Leena Himanen. "Assessment of respiratory effort during sleep with noninvasive techniques". *Sleep Medicine Reviews*. 2015, 24. 103-104. <https://doi.org/10.1016/j.smrv.2015.08.010>

Mäki-Marttunen, Tuomo Mikael et al. "Effects of local structure of neuronal networks on spiking activity in silico". and Fellous, Jean-Marc Prinz, Astrid (editors). *Twentieth Annual Computational Neuroscience Meeting: CNS\*2011*. Stockholm: BioMed Central. 2011, P202.

Acimovic, Jugoslava et al. "Data-driven study of synchronous population activity in generic spiking neuronal networks: How much do we capture using the minimal model for the considered phenomena?". *BMC Neuroscience*. 2018, 19(Suppl 2). 68-69.

Lehtimäki, Mikko, Lassi Paunonen, and Marja-Leena Linne. "Improvement of computational efficiency of a biochemical plasticity model". *BMC Neuroscience*. 2018, 19(Suppl 2). 66-66. <https://doi.org/10.1186/s12868-018-0452-x#Sec613>

Acimovic, Jugoslava et al. *Data-driven study of synchronous population activity in generic spiking neuronal networks: How much do we capture using the minimal model for the considered phenomena?*. 2018.



Acimovic, Jugoslava *Neural networks, cell cultures and some older work on data analysis..* 2009.