

A neural network approach to EEG classification in brain chemical injuries diagnosis

Raja, Aimur; Meister, Ants; Tuulik, Viuu; Lossmann, Eerik MEDICON'95 : VII Mediterranean Conference on Medical & Biological Engineering (IFMBE) : conference abstracts, Jerusalem, Israel, 17-21 September, 1995 1995 / p. 133

Ajuinseneeria : erksuses ja rahuloleku nupp pea küljes

Strandberg, Marek Inseneeria 2015 / lk. 6 : fot https://artiklid.elnet.ee/record=b2738545*est

An EEG-based human brain state estimation

Raja, Aimur; Tuulik, Viuu Tallinna Tehnikaülikooli Toimetised 1994 / lk. 62-67

Assessment of electroencephalographic measures applied in the detection of depression = Depressiooni avastamiseks kasutatavate elektroentsefalograafilise signaali mõõdikute analüüs

Päeske, Laura 2021 https://www.ester.ee/record=b5411747*est <https://digikogu.taltech.ee/et/Item/44751b09-b47f-4757-847f-dd0f1d39b91b>
<https://doi.org/10.23658/taltech.17/2021>

Brain – our demanding companion

Jokinen, Juliane Studioosus 2011 / lk. 31 https://www.ester.ee/record=b1558644*est

Brain-derived neurotrophic factor expression in vivo is under the control of neuron-restrictive silencer element

Timmusk, Tõnis; Palm, Kaia; Lendahl, U.; Metsis, Madis Journal of biological chemistry 1999 / p. 1078-1084

Changes of human brain bioelectrical activity during photic stimulation as an indicator of brain functional state

Tuulik, Viuu; Meister, Ants; Lossmann, Eerik; Raja, Aimur Biocybernetics and biomedical engineering 2001 / 1, p. 77-82

Correlation between electroencephalographic markers in the healthy brain

Päeske, Laura; Uudeberg, Tuuli; Hinrikus, Hiie; Lass, Jaanus; Bachmann, Maie Scientific reports 2023 / art. 6307
<https://doi.org/10.1038/s41598-023-33364-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Correlation of blood-brain penetration using structural descriptors

Katritzky, Alan R.; Kuanar, Minati; Slavov, Svetoslav; Dobchev, Dimitar A.; Fara, Dan C.; Karelson, Mati; Acree, William E.; Solov'ev, Vitaly P.; Varnek, Alexandre Bioorganic & medicinal chemistry 2006 / 14, p. 4888-4917 : ill

Differential regulation of the BDNF gene in cortical and hippocampal neurons

Esvald, Eli-Eelika; Tuvikene, Jürgen; Moistus, Andra; Rannaste, Käthy; Kõomägi, Susann; Timmusk, Tõnis Journal of neuroscience 2022 / p. 9110-9128 <https://doi.org/10.1523/JNEUROSCI.2535-21.2022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Distribution of GABA receptor subunit transcripts in the rat brain

Wegelius, K.; Pasternack, M.; Hiltunen, J.O.; Rivera, Claudio; Kaila, Kai; Saarma, Mart; Reeben, M. European journal of neuroscience 1998 / p. 350-357

EEG spectrum-based analysis of human brain bioelectrical activity using photic stimulation

Tuulik, Viuu; Lossmann, Eerik; Meister, Ants; Raja, Aimur Lecture Notes of the ICB Seminars "Statistics and Clinical Practice" 2000 / p. 116-120

Effect of modulated microwave radiation on human resting electroencephalographic signal = Moduleeritud mikrolainekeirguse mõju inimese puhkeoleku elektroentsefalograafilisele signaalile

Bachmann, Maie 2008 http://www.ester.ee/record=b2373842*est

Effect of negative and positive emotions on EEG spectral asymmetry

Päeske, Laura; Bachmann, Maie; Lass, Jaanus; Hinrikus, Hiie 2015 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2015 / p. 8107 - 8110 <https://doi.org/10.1109/EMBC.2015.7320275> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

FPGA-based implementation of EEG analyzer for detection of depressive disorder

Gorev, Maksim; Pesonen, Vadim; Mihhailov, Dmitri Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK neljanda aastakonverentsi artiklite kogumik : 26.-27. novembril 2010, Essu mõis 2010 / lk. 69-72 : ill

Fractal dimension analysis of the effects of photic and microwave stimulation on the brain function [Electronic resource]

Lipping, Tarmo; Olejarczyk, E.; Parts, Maie Proceedings of World Congress on Medical Physics and Biomedical Engineering : Sidney, Australia, 2003 2003 / [4] p. [CD-ROM]

High-intensity interval and moderate-intensity continuous training on cerebral energy metabolism in older rats.

Marcourt, Cecile; Rivera, Claudio; Tuvikene, Jürgen; Langeard, Antoine; Esvald, Eli-Eelika; Cabrera-Cabrera, Florencia; Timmusk, Tõnis; Tempardo, Jean-Jacques; Laurin, Jerome GeroScience 2025 / 16 p <https://doi.org/10.1007/s11357-025-01820-5>

Increased striatal VMAT2 binding in mice after chronic administration of methcathinone and manganese

Asser, Andres; Kõks, Sulev; Snellman, Anniina; Haaparanta-Solin, Merja; Arponen, Eveliina; Grönroos, Tove; **Nairismägi, Jaak**; Bergquist, Jonas; Soomets, Urel; Piip, Piret; Eltermaa, Mall Brain Research 2016 / p. 97 - 102

<https://doi.org/10.1016/j.brainres.2016.09.034> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Inimaju asümmeetriast, käelisusest ja skisofreeniast

Koppel, Indrek; Pruunsild, Priit; Timmusk, Tõnis Tallinna Tehnikaülikooli aastaraamat 2007 2008 / lk. 109-112

Integrated and organized cellular bioenergetic systems in heart and brain

Anmann, Tiia 2007 http://www.ester.ee/record=b2281020*est

Ivo Fridolin: Living a healthy life is challenge. Science does not fight death

Fridolin, Ivo Estonian Centre of Excellence in ICT Research 2021 / p. 10-15 : ill https://www.ester.ee/record=b5456158*est
<http://www.digar.ee/id/nlib-digar:634779>

Konnektroom ehk ajast ja selle juhtumest

Strandberg, Marek Inseneeria 2015 / lk. 20 https://artiklid.elnet.ee/record=b2745535*est

Käelisuse ja skisofreenia seostest

Timmusk, Tõnis Horisont 2010 / 5, lk. 6 : portr https://artiklid.elnet.ee/record=b2155629*est

Leptin increases hepatic triglyceride export via a vagal mechanism in humans

Metz, Matthäus; Beghini, Marianna; Wolf, Peter; Pflieger, Lorenz; Hackl, Martina; Bastian, Magdalena; Freudenthaler, Angelika; Harreiter, Jürgen; **Risti, Robert; Lõokene, Aivar** Cell Metabolism 2022 / p. 1719-1731 <https://doi.org/10.1016/j.cmet.2022.09.020>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

LRRTM1 on chromosome 2p12 is a maternally suppressed gene that is associated paternally with handedness and schizophrenia

Francks, C.; Maegawa, S.; **Timmusk, Tõnis; Pruunsild, Priit; Koppel, Indrek** Molecular psychiatry 2007 / p. 1129-1139

https://www.researchgate.net/publication/6171287_LRRTM1_on_chromosome_2p12_is_a_maternally_suppressed_gene_that_is_associated_paternally_with_handedness_and_schizophrenia

MANF is widely expressed in mammalian tissues and differently regulated after ischemic and epileptic insults in rodent brain

Lindholm, Päivi; Peränen, Johan; Andressoo, Jaan-Olle; Kalkkinen, Nisse; Kokaia, Zaal; Lindvall, Olle; **Timmusk, Tõnis; Saarma, Mart** Molecular and cellular neuroscience 2008 / p. 356-371 : ill <https://pubmed.ncbi.nlm.nih.gov/18718866/>

Mapping brains on grids of features for schizophrenia analysis

Perina, Alessandro; Peruzzo, Denis; **Kesa, Maria**; Jojic, Nebojsa; Murino, Vittorio; Bellani, Mellani; Brambilla, Paolo; Castellani, Umberto Medical Image Computing and Computer-Assisted Intervention –MICCAI 2014, 17th International Conference, Boston, MA, USA, September 14-18, 2014, Proceedings, Part II 2014 / p. 805-812 : ill https://doi.org/10.1007/978-3-319-10470-6_100 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Meditatsioonitehnika - terviseinseneering

Hinrikus, Hiie; Lass, Jaanus; Meigas, Kalju; Fridolin, Ivo Teadusmõtte Eestis. 4, Tehnikateadused. 2 2007 / lk. 17-25 : ill

Method for testing the brain

Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus; Tuulik, Viuu; Ubar, Raimund-Johannes 5th European Conference of the International Federation for Medical and Biological Engineering : 14-18 September 2011, Budapest, Hungary 2012 / p. 1198-1201 : ill

Miniatuurne märgvara [Võrguteavik]

Tammemäe, Kalle Arvutimaailm 2018 / 14 p <https://www.am.ee/margvara>

Mobiil hakkab ajudele : [Hiie Hinrikuse ja Jaanus Lassi kommentaaridega]

Hinrikus, Hiie; Lass, Jaanus Põhjarannik 2005 / 26. veebr., lk. 5

Mouse and rat BDNF gene structure and expression revisited

Aid-Pavlidis, Tamara; Kazantseva, Anna; Piirsoo, Marko; Palm, Kaia; Timmusk, Tõnis Journal of neuroscience research 2007 / 3, p. 525-535 <https://onlinelibrary.wiley.com/doi/full/10.1002/jnr.21139>

Mõistuse piiripealsetel - stressis õppija kaotab eesmärgi silmist

Esvald, Ele-Liis Horisont 2012 / lk. 5 https://artiklid.elnet.ee/record=b2545704*est

Neuronal activity-dependent transcription factors and regulation of human BDNF gene = Närvitalitlusest sõltuvad transkriptsioonifaktorid ja inimese BDNF geeni avaldumise regulatsioon

Pruunsild, Priit 2010 https://www.ester.ee/record=b2653637*est

New findings in modulated microwave effects on EEG

Lass, Jaanus; Parts, Maie; Tuulik, Viuu; Hinrikus, Hiie Medicon 2001 : IX Mediterranean Conference on Medical and Biological Engineering and Computing : June 12-15, 2001, Pula, Croatia : [proceedings]. Part II 2001 / p. 742-745 : ill

New method and electronic system for the human brain hydrodynamic diagnosing

Ragauskas, A.; Daubaris, G. BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 133-139: ill

NF- κ B-dependent regulation of brain-derived neurotrophic factor in hippocampal neurons by X-linked inhibitor of apoptosis protein

Kairisalo, Minna; Korhonen, Laura; **Sepp, Mari; Pruunsild, Priit**; Kukkonen, Jyrki; Kivinen, Jenni; **Timmusk, Tõnis**; Blomgren, Klas; Lindholm, Dan European journal of neuroscience 2009 / 6, p. 958-966 : ill <https://pubmed.ncbi.nlm.nih.gov/19735291/>

Non-ionising radiation effects on brain electrical activity

Hinrikus, Hiie; Lass, Jaanus; Meigas, Kalju; Riipulk, Jevgeni; Tuulik, Viuu Physica medica 1999 / 3, p. 214

Non-thermal effect of microwave radiation on human brain

Hinrikus, Hiie; Bachmann, Maie; Tomson, Ruth; Lass, Jaanus The environmentalist 2005 / 2/4, p. 187-194
https://www.researchgate.net/publication/227317313_Non-Thermal_Effect_of_Microwave_Radiation_on_Human_Brain

Plexin B3 is genetically associated with verbal performance and white matter volume in human brain

Rujescu, D.; Meisenzahl, E.M.; **Veske, Andres** Molecular psychiatry 2007 / 2, p. 190-194 : ill
https://www.researchgate.net/publication/6760959_Plexin_B3_is_genetically_associated_with_verbal_performance_and_white_matter_volume_in_human_brain

Regulation of mitochondrial respiration by different tubulin isoforms in vivo

Karu-Varikmaa, Minna; **Saaremäe, Merle**; Sikk, Peeter; Käämbre, Tuuli; **Metsis, Madis**; Saks, Valdur Biophysical journal 2011 / p. 459a [https://www.cell.com/biophysj/fulltext/S0006-3495\(10\)04205-0](https://www.cell.com/biophysj/fulltext/S0006-3495(10)04205-0)

Reliability of electroencephalogram-based individual markers - case study

Uudeberg, Tuuli; Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Bachmann, Maie 2020 42nd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC) 2020 / p. 276 - 279 <https://doi.org/10.1109/EMBC44109.2020.9175274>
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Revisiting the expression of BDNF and its receptors in mammalian development

Esvald, Eli-Eelika; Tuvikene, Jürgen; Kiir, Carl Sander; Avarlaid, Annela; Tamberg, Laura; Sirp, Alex; Shubina, Anastassia; Cabrera-Cabrera, Florencia; Pihlak, Arno; Koppel, Indrek; Palm, Kaia; Timmusk, Tõnis Frontiers in Molecular Neuroscience 2023 / art. 1182499 <https://doi.org/10.3389/fnmol.2023.1182499> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The chemistry workers brain state quantitative estimating on the basis of alpha activity of EEG

Raja, Aimur; Tuulik, Viuu; Meister, Ants; Lossmann, Eerik Proc. of a-Conference 1994 / p. 36

The K⁺/Cl⁻ co-transporter KCC2 renders GABA hyperpolarizing during neuronal maturation

Rivera, Claudio; Voipio, Juha; Payne, John A.; Ruusuvuori, Eva; Lahtinen, Hannele; Lamsa, Karri; Pirvola, Ulla; **Saarma, Mart**; Kaila, Kai Nature 1999 / p. 251-255: ill <https://pubmed.ncbi.nlm.nih.gov/9930699/>

Threshold of radiofrequency electromagnetic field effect on human brain

Hinrikus, Hiie; Lass, Jaanus; Bachmann, Maie International journal of radiation biology 2021 / p. 1505-1515 : ill
<https://doi.org/10.1080/09553002.2021.1969055> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Towards understanding the neuronal pathogenesis of aspartylglycosaminuria : expression of aspartylglycosaminidase in brain during development

Uusitalo, A.; Tenhunen, K.; Heinonen, O.; Hiltunen, J.O.; **Saarma, Mart**; Haltia, M.; Jalanko, A.; Palotie, L. Molecular genetics development 1999 / p. 294-307

Using artificial neural networks to predict cell-penetrating compounds

Karelson, Mati; Dobchev, Dimitar Expert opinion drug discovery 2011 / p. 783-796 : ill

Õiged toonid hävitavad vaenlase

Strandberg, Marek Inseneeria 2015 / lk. 9 : fot https://artiklid.elnet.ee/record=b2748893*est