

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

After-effect induced by microwave radiation in human electroencephalographic signal : a feasibility study

Bachmann, Maie; Päeske, Laura; Ioannides, Andreas A.; Lass, Jaanus; Hinrikus, Hiie International journal of radiation biology 2018 / p. 896–901 : ill <https://doi.org/10.1080/09553002.2018.1478164> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An EEG-based human brain state estimation

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

Analysis of EEG patterns during midazolam sedation in critically ill patients for brain monitoring purposes

Lipping, Tarmo; Jäntti, Ville; Rätsep, Indrek; Ferenets, Rain 2nd International Baltic Congress of Anaesthesiology and Intensive Care. 8th Congress of Estonian Anaesthesiologists : Tallinn, Estonia, 26-28 October 2006 : final programme. Proceedings of the congress 2006 / p. 89 <https://researchportal.tuni.fi/en/activities/analysis-of-eeq-patterns-during-midazolam-sedation-in-critically->

Application of adaptive AR-models to EEG signals segmentation

Meister, Ants Tallinna Tehnikaülikooli Toimetised 1994 / lk. 41-51: ill

Application of electroencephalographic signal based measures for early detection of depression symptoms in

occupational health = Elektroentsefalograafilisel signaalil põhinevate indikaatorite kasutamine depressiooni sümptomite varaseks avastamiseks töötervishoius

Pöld, Toomas 2021 https://www.ester.ee/record=b5473276*est <https://digikogu.taltech.ee/et/Item/c9b2a014-84fc-4003-88a2-85836830038a> <https://doi.org/10.23658/taltech.61/2021>

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>

Biosignaali töötamise uurimisrühm = Biosignal Processing Research Group

Bachmann, Maie Tervisetehnoloogiad eile, täna, homme : 30 aastat Tervisetehnoloogiade instituuti ning Eesti Biomeditsiinitehnika ja Meditsiini füüsika Ühingu = Health technologies yesterday, today and tomorrow : 30 years of the Department of Health Technologies and the Estonian Society for Biomedical Engineering and Medical Physics 2024 / lk. 37-41, p. 35-39 : ill

Biosignal interpretation : study of cardiac arrhythmias and electromagnetic field effects on human nervous system

Lass, Jaanus 2002 http://www.ester.ee/record=b1715357*est

Bispectrum for the detection of the effect of photic and microwave stimulation on human EEG

Parts, Maie; Lipping, Tarmo; Lass, Jaanus; Hinrikus, Hiie Proceedings of the 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Vol. 25, A New Beginning for Human Health : volume 3 of 4 : 17-21 September 2003, Cancun, Mexico 2003 / p. 2327-2330 : ill

Brain functional connectivity in depression : gender differences in EEG

Orgo, Laura; Bachmann, Maie; Kalev, Kaia; Hinrikus, Hiie; Järveld, Mari 2016 IEEE EMBS Conference on Biomedical Engineering and Sciences (IECBES) : Kuala Lumpur, 4-8 December 2016 2016 / p. 270-273 : ill <https://doi.org/10.1109/IECBES.2016.7843456>

Brain stimulation by modulated microwave radiation: a feasibility study

Bachmann, Maie; Bachmann, Jaanus; Ioannides, Andreas A.; Hinrikus, Hiie 2018 EMF-Med 1st World Conference on Biomedical Applications of Electromagnetic Fields (EMF-Med), 10-13 Sept. 2018 2018 / 2 p <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8526055&tag=1>

Brain-to-brain loop concept in application to porphyrias : 10-year experience at North Estonia Medical Centre

Zemtsovskaja, Galina; Pikta, Marika; Borissova, Julia; Pille, Viive; Luman, Merike; Viigimaa, Margus Eesti Arst 2016 / p. 61 <http://ojs.utlib.ee/index.php/EA/article/viewFile/12917/8000> http://www.ester.ee/record=b4600434*est

Changes in EEG caused by modulated microwave field

Hinrikus, Hiie; Lass, Jaanus; Parts, Maie; Tuulik, Viuu EBEA 2003 : 6th International Congress of the European Bioelectromagnetics Association (EBEA) : 13-15 November 2003 : Budapest, Hungary : book of abstracts 2003 / p. 171

Changes in EEG measures of a recipient of the mRNA COVID-19 vaccine - a case study

Uudeberg, Tuuli; Hinrikus, Hiie; Päeske, Laura; Lass, Jaanus; Bachmann, Maie 2022 44th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC) 2022 / p. 3702-3705 <https://doi.org/10.1109/EMBC48229.2022.9871524> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Changes in human EEG caused by low level modulated microwave stimulation

Hinrikus, Hiie; Parts, Maie; Lass, Jaanus; Tuulik, Viuu Bioelectromagnetics 2004 / p. 431-440 : ill

Classification and clustering of transients in the EEG of epileptics

Lossmann, Eerik; Wahlberg, P. 9th Nordic Meeting on Medical and Biological Engineering, Lund, Sweden, June 13-16, 1993 1993

Clustering of transients in the EEG of epileptics

Lossmann, Eerik; Wahlberg, Patrik 1993

Comparing entropy/complexity of EEG during propofol and sevoflurane anesthesia at burst-suppression level

Ferenets, Rain; Lipping, Tarmo; Puumala, Pasi; Jäntti, Ville; Sonkajärvi, Eila; Heikkinen, Esa; Karvonen, Elina; Suominen, Katri

The proceedings of 5th International Workshop on Biosignal Interpretation : September 6-8, 2005, Tokyo, Japan 2005 / p. 187-190 : ill

<https://researchportal.tuni.fi/en/publications/comparing-entropcomplexity-of-eeeg-during-propofol-and-sevoflurane>

Complex signal classification algorithms based on the third-order statistical models

Lossmann, Eerik 1999 http://www.ester.ee/record=b1273070*est

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

DC-level detection of burst-suppression EEG

Lipping, Tarmo; Loula, P.; Jäntti, Ville; Yli-Hankala, Arvi Methods of information in medicine 1994 / 1, p. 35-38: ill

Dependence of the EEG nonlinear coupling on the frequency bands and the segment lengths

Orgo, Laura; Bachmann, Maie; Kalev, Kaia; Järveld, Mari; **Raik, Jaan; Hinrikus, Hiie** EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 799-802 https://doi.org/10.1007/978-981-10-5122-7_200 Conference proceedings at Scopus Article at Scopus Article at WOS

Detection and interpretation of low-level stressor effects on brain using complex methods

Lass, Jaanus; Ferenets, Rain; Riisalu, R.; **Tuulik, Viuu; Hinrikus, Hiie** Workshop on Biomedical Information Engineering : 25-27 June, 2000, Istanbul - Turkey : proceedings 2000 / p. 235-238 : ill

Detection of the effect of weak stressors on human resting electroencephalographic signal = Nõrkade stressorite mõju avastamine inimese puhkeoleku elektroentsefalograafilises signaalis

Suhhova, Anna 2012

Determination of the functional state of central nervous system in chemical stress by EEG and psychometrical methods

Tuulik, Viuu; Meister, Ants; Raja, Aimur; Lossmann, Eerik Proc. of a-Conference 1994 / p. 30

Detrended fluctuation analysis of EEG in depression

Bachmann, Maie; Suhhova, Anna; Lass, Jaanus; Adamsoo, Kaire; Võhma, Ülle; **Hinrikus, Hiie-Agnes** XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013, MEDICON 2013, 25-28 September 2013, Seville, Spain 2014 / p. 694-697 https://doi.org/10.1007/978-3-319-00846-2_172 Conference proceedings at Scopus Article at Scopus

EEG analyzer prototype based on FPGA

Jenihhin, Maksim; Gorev, Maksim; Pesonen, Vadim; Mihhailov, Dmitri; Ellervee, Peeter; Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus 7th International Symposium on Image and Signal Processing and Analysis (ISPA 2011) : September 4-6, 2011, Dubrovnik, Croatia : proceedings 2011 / p. 101-106 : ill <https://ieeexplore.ieee.org/document/6046588>

EEG in deepening anaesthesia

Jäntti, Ville; Ferenets, Rain Workshop on Neuroscience and Information Technology in Tampere 2004 / [1] p

EEG independent component and coherence analysis from scalp and depth electrodes during propofol anesthesia

Lipping, Tarmo; Ferenets, Rain; Puumala, Pasi Digest of 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : a new Beginning for Human Health : Cancun, Mexico, 2003 2003 / p. 2471-2474 <https://ieeexplore.ieee.org/document/1280416/similar#similar>

EEG patterns and regularity properties during propofol induced anesthesia/sedation

Ferenets, Rain 2007 http://www.ester.ee/record=b2301505*est

EEG signal in monitoring brain function in anesthesia and intensive care : a review

Lipping, Tarmo; Jäntti, Ville Proceedings of the Estonian Academy of Sciences. Engineering 2004 / 2, p. 95-109 : ill

EEG spectral asymmetry index for detection of depression at individual and fixed frequency bands [Electronic resource]
Suhhova, Anna; Bachmann, Maie; Lass, Jaanus; Aadamsoo, Kaire; Vöhma, Ülle; **Hinrikus, Hiie** World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China 2012 / p. 589-592 : ill [CD-ROM]
https://link.springer.com/chapter/10.1007/978-3-642-29305-4_154 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

EEG spectral asymmetry is dependent on education level of men

Pöld, Toomas; Bachmann, Maie; Päeske, Laura; Kalev, Kaia; Lass, Jaanus; Hinrikus, Hiie World Congress on Medical Physics and Biomedical Engineering 2018 : June 3–8, 2018, Prague, Czech Republic (Vol. 2) 2018 / p. 405–408
https://doi.org/10.1007/978-981-10-9038-7_76 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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 450 MHz microwave modulated with 217 Hz on human EEG in rest

Bachmann, Maie; Säkki, Maksim; Kalda, Jaan; Lass, Jaanus; Tuulik, Viuu; Hinrikus, Hiie The environmentalist 2005 / 2/4, p. 165-171

Effect of coffee on EEG spectral asymmetry

Saifudinova, Maie; Bachmann, Maie; Lass, Jaanus; Hinrikus, Hiie World Congress on Medical Physics and Biomedical Engineering, June 7–12, 2015, Toronto, Canada 2015 / p. 1030-1033 https://doi.org/10.1007/978-3-319-19387-8_251 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Effect of microwave radiation on human EEG at two different levels of exposure

Suhhova, Anna; Bachmann, Maie; Karai, Deniss; Lass, Jaanus; Hinrikus, Hiie Bioelectromagnetics 2012 / p. 264 - 274 : ill
<https://doi.org/10.1002/bem.21772> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of modulated microwave radiation on electroencephalographic rhythms and cognitive processes

Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus; Tuulik, Viuu Estonian journal of engineering 2008 / 2, p. 91-106 : ill

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](#)

Effect of the microwave radiation on human EEG at different modulation frequencies [Electronic resource]

Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus; Tuulik, Viuu Medicon and Health Telematics 2004 "Health in the Information Society" : Xth Mediterranean Conference on Medical and Biological Engineering : July 31 - August 5, 2004, Ischia, Napeles-Italy 2004 / [4] p. : ill. [CD-ROM]

ELC-ECG: efficient LSTM cell for ECG classification based on quantized architecture

Mirsalari, Seyed Ahmad; Nazari, Najmeh; Ansarmohammadi, Seyed Ali; Sinaei, Sima; Salehi, Mostafa E.; **Daneshtalab, Masoud** 2021 IEEE International Symposium on Circuits and Systems (ISCAS), Daegu, Korea May 22-28, 2021 : proceedings 2021 / 5 p
<https://doi.org/10.1109/ISCAS51556.2021.9401261> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Electroencephalography as an objective indicator of stress

Gavriljuk, Marietta; Uudeberg, Tuuli; Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo; Bachmann, Maie 19th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics : Proceedings of NBC 2023, June 12–14, 2023, Liepaja, Latvia 2023 / p. 221–226
https://doi.org/10.1007/978-3-031-37132-5_28 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Estimation of the complexity of the electroencephalogram for brain monitoring in intensive care = Electroentsefalogrammi kompleksuse hindamine aju monitooringul intensiivravis

Anier, Andres 2014 http://www.ester.ee/record=b3050804*est

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

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

Pesonen, Vadim; Gorev, Maksim; Mihhailov, Dmitri Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kuuenda aastakonverentsi artiklite kogumik : 3.-5. oktoobril 2012, Laulasmaa 2012 / p. 67-70 : ill

Helgem vanadus teaduse toel [Võrguväljaanne]

Uusen, Kaire delfi.ee 2021 ["Helgem vanadus teaduse toel "](#)

Higuchi's fractal dimension for analysis of the effect of microwave exposure in depression

Bachmann, Maie; Suhhova, Anna; Lass, Jaanus; Adamsoo, Kaire; Vöhma, Ülle; **Hinrikus, Hiie** Proceedings : 7th International Workshop on Biological Effects of Electromagnetic Field : October 2012 (Malta) 2012 / 4 p. : ill

Individual stability of single-channel EEG measures over one year in healthy adults

Uudeberg, Tuuli; Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Pöld, Toomas; Bachmann, Maie Scientific Reports 2025 / art. 28426 <https://doi.org/10.1038/s41598-025-13614-y>

In-phase matrix profile : a novel method for the detection of major depressive disorder

Uudeberg, Tuuli; Belikov, Juri; Päeske, Laura; Hinrikus, Hiie; Liiv, Innar; Bachmann, Maie Biomedical Signal Processing and Control 2024 / art. 105378 <https://doi.org/10.1016/j.bspc.2023.105378> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Kaasaskantav seade hindab aju seisundit : [TTÜ teadlaste leiutatud EEG analüsaatorist]

Imeline Teadus 2013 / lk. 96 : ill

Kuidas tuvastada depressiooni enne selle subjektiivsete sümptomite avastamist? [Võrguväljaanne]

jarvateataja.postimees.ee 2021 ["Kuidas tuvastada depressiooni enne selle subjektiivsete sümptomite avastamist?"](#)

Lempel Ziv complexity of EEG in depression

Bachmann, Maie; Kalev, Kaia; Suhhova, Anna; Lass, Jaanus; Hinrikus, Hiie 6th European Conference of the International Federation for Medical and Biological Engineering, MBEC 2014, 7-11 September 2014, Dubrovnik, Croatia 2015 / p. 58-61 : ill https://doi.org/10.1007/978-3-319-11128-5_15 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Lempel-Ziv and multiscale Lempel-Ziv complexity in depression

Kalev, Kaia; Bachmann, Maie; Päeske, Laura; Lass, Jaanus; Hinrikus, Hiie 2015 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2015 / art. 7319310 <https://doi.org/10.1109/EMBC.2015.7319310> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Long-term stability of EEG spectral asymmetry index - preliminary study

Uudeberg, Tuuli; Päeske, Laura; Pöld, Toomas; Lass, Jaanus; Hinrikus, Hiie; Bachmann, Maie XV Mediterranean Conference on Medical and Biological Engineering and Computing - MEDICON 2019 : proceedings of MEDICON 2019, September 26–28, 2019, Coimbra, Portugal 2020 / p. 276-281 https://doi.org/10.1007/978-3-030-31635-8_33 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Long-term stability of resting state EEG-based linear and nonlinear measures

Pöld, Toomas; Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Bachmann, Maie International journal of psychophysiology 2021 / p. 83-87 <https://doi.org/10.1016/j.jpsycho.2020.11.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Low-level microwave effects on EEG

Hinrikus, Hiie; Lass, Jaanus; Tuulik, Viiv Medical physics 2000 / 6, [CD-ROM], Digest of Papers of the 2000 World Congress on Medical Physics and Biomedical Engineering and [...] : Chicago 2000 : July 23-28, 2000, Chicago's Navy Pier, [4] p. : ill

Low-level microwave effects on EEG alpha and theta waves [Electronic resource]

Parts, Maie; Lass, Jaanus; Lipping, Tarmo; Tuulik, Viiv; Hinrikus, Hiie Proceedings of World Congress on Medical Physics and Biomedical Engineering : Sidney, Australia, 2003 2003 / [4] p. [CD-ROM] <https://researchportal.tuni.fi/en/publications/low-level-microwave-effects-on-eeq-alpha-and-theta-waves>

Low-level modulated microwave effect on EEG alpha-wave

Parts, Maie; Lass, Jaanus; Tuulik, Viiv; Hinrikus, Hiie Biological Effects of EMFs : 2nd International Workshop, Rhodes, Greece, 7-11 October 2002 : proceedings. Volume I 2002 / p. 490-494 : ill

Methods for classifying depression in single channel EEG using linear and nonlinear signal analysis

Bachmann, Maie; Päeske, Laura; Kalev, Kaia; Aarma, Katrin; Lehtmets, Andres; Ööpik, Pille; **Lass, Jaanus; Hinrikus, Hiie** Computer methods and programs in biomedicine 2018 / p. 11–17 : ill <https://doi.org/10.1016/j.cmpb.2017.11.023> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microwave radiation has modulation frequency dependent stimulating effect on human EEG rhythms

Lass, Jaanus; Hinrikus, Hiie; Bachmann, Maie; Tuulik, Viiv Proceedings of the 26th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : San Francisco, CA, USA, September 1-5, 2004. Vol. 2 2004 / p. 4225-4228 : ill <https://pubmed.ncbi.nlm.nih.gov/17271236/>

Modulated low-level electromagnetic field effects on EEG visual event-related potentials

Lass, Jaanus; Kruusing, Kristjan; Hinrikus, Hiie Estonian journal of engineering 2008 / p. 124-137 : ill
https://artiklid.elnet.ee/record=b1022240*est

Modulated microwave effects on EEG

Lass, Jaanus; Parts, Maie; Tuulik, Viuu; Hinrikus, Hiie Proceedings of the EBEA 2001 : 5th International Congress of the European BioElectromagnetics Association : 6-8 September 2001, Helsinki, Finland 2001 / p. 289-291

Modulated microwave effects on EEG alpha-waves

Lass, Jaanus; Tuulik, Viuu; Hinrikus, Hiie Medical & biological engineering & computing 1999 / Suppl. 1, Proceedings of the 11th Nordic-Baltic Conference on Biomedical Engineering, June 6-10, 1999, Tallinn, Estonia, p. 105-108: ill

Multichannel EEG-based sleep stage scoring

Lossmann, Eerik 1997

Multi-level binarized LSTM in EEG classification for wearable devices

Nazari, N.; Mirsalari, Seyed Ahmad; Sinaei, S.; Salehi, M.E.; Daneshtalab, Masoud 2020 28th Euromicro International Conference on Parallel, Distributed and Network-Based Processing : PDP 2020, Västerås, Sweden, 11-13 March 2020 2020 / p. 175-181
<https://doi.org/10.1109/PDP50117.2020.00033>

Muutus ajutöös võimaldab märgata depressiooni enne selle avaldumist [Võrguväljaanne]

Oidermaa, Jaan-Juhan novaator.err.ee 2022 "[Muutus ajutöös võimaldab märgata depressiooni enne selle avaldumist](#)"

Negative correlation between functional connectivity and small-worldness in the alpha frequency band of a healthy brain

Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Raik, Jaan; Bachmann, Maie Frontiers in Physiology 2020 / Art. nr. 910
<https://doi.org/10.3389/fphys.2020.00910> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The neural network classification algorithms with applications to averaged EEG data

Raja, Aimur; Tuulik, Viuu; Lossmann, Eerik; Meister, Ants The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 347-348

Neural network-based analysis of quantitative EEG data in case of chronic occupational chemical stress

Tuulik, Viuu; Meister, Ants; Raja, Aimur; Lossmann, Eerik Electroencephalography and clinical neurophysiology 1996 / n. 4. Special issue, Abstracts of the 8th European Congress of Clinical Neurophysiology, Munich, Germany, Oct. 9-11, 1996. p. 327

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

Parametric mechanism of excitation of the electroencephalographic rhythms by modulated microwave radiation

Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus International journal of radiation biology 2011 / p. 1077-1085 : ill
<https://pubmed.ncbi.nlm.nih.gov/21913816/>

Pattern recognition techniques with applications to the EEG signals

Lossmann, Eerik; Meister, Ants; Raja, Aimur; Tuulik, Viuu 54th ICB Seminar : Multimedia, Data Integration, Medical Databases : Warsaw, 18-23 October, 1999 1999 / p. 29-30

Portable qEEG and HD-tCS device for point-of-injury traumatic brain injury diagnostics

Strisland, Frode; Vedum, Jon; Liverud, Anders; Dalgard, Steffen; Brødreskift, Tomas; Albert, Bruno; Noyvirt, Alexandre; Vene, Karl; Herranen, Henrik; Kirs, Maarjus Phealth 2017 : proceedings of the 14th International Conference on Wearable Micro and nano Technologies for Personalized Health : 14-16 May 2017, Eindhoven, The Netherlands 2017 / p. 198-203
<https://doi.org/10.3233/978-1-61499-761-0-198> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Power spectrum distinguishes the effect of microwave stimulation on human EEG at rest

Bachmann, Maie; Kalda, Jaan; Lass, Jaanus; Tuulik, Viuu; Hinrikus, Hiie Biological Effects of EMFs 3rd International Workshop : Kos, Greece, 4-8 October 2004 : proceedings. Volume 1 2004 / p. 75-80 : ill

Processing EEG during anaesthesia and cardiac surgery with nonlinear order statistics based methods

Lipping, Tarmo 2001 https://www.ester.ee/record=b1476353*est

Quantative EEG for detection of the effect of low-level physical stressors

Parts, Maie; Lass, Jaanus; Tuulik, Viuu; Hinrikus, Hiie IV International Workshop on Biosignal Interpretation : BSI2002, Como, Italy, 24th-26th June, 2002 : proceedings 2002 / p. 339-342 : ill

Quantitative analysis of the psychophysiological and EEG data

Tuulik, Viuu Symulacja w badaniach i rozwoju, WIGRY, 26-28 Wresnia, 1996 1996

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](#)

Resting EEG functional connectivity and graph theoretical measures for discrimination of depression

Orgo, Laura; Bachmann, Maie; Kalev, Kaia; Järveld, Mari; Raik, Jaan; Hinrikus, Hiie 4th IEEE EMBS International Conference on Biomedical and Health Informatics, BHI 2017 : Orlando, Florida, USA, 16-19 February 2017 2017 / p. 389-392 : ill <https://doi.org/10.1109/BHI.2017.7897287>

Revealing small hidden changes in human EEG by Higuchi's fractal dimension

Bachmann, Maie; Suhhova, Anna; Lass, Jaanus; Hinrikus, Hiie Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and the 1st Congress of World Engineers and Riga Polytechnical Institute/RTU Alumni : 11-12 October 2012, Riga, Latvia : [abstracts] 2012 / p. 661 : ill https://link.springer.com/chapter/10.1007/978-3-642-34197-7_12

Revealing small hidden changes in human EEG by Higuchi's fractal dimension [Electronic resource]

Bachmann, Maie; Suhhova, Anna; Lass, Jaanus; Hinrikus, Hiie IFMBE proceedings ; Vol. 38 2013 / p. 47-50 : ill [CD-ROM] https://doi.org/10.1007/978-3-642-34197-7_12 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Segmentation of EEG signals with two adaptive AR-models

Meister, Ants IX Nordic Meeting on Medical and Biological Engineering, Lund, Sweden, June 13-16, 1993 1993

Selection of EEG frequency bands for detection of depression

Kalev, Kaia; Bachmann, Maie 16th Nordic-Baltic Conference on Biomedical Engineering : 16. NBC & 10. MTD 2014 Joint Conferences, October 14-16, 2014, Gothenburg, Sweden 2015 / p. 55-58 https://doi.org/10.1007/978-3-319-12967-9_15 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Sensitivity of human EEG to modulation frequency of microwave radiation [Electronic resource]

Tomson, Ruth; Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus; Tuulik, Viu IFMBE proceedings 2005 / [5] p. [CD-ROM]

Single channel EEG analysis for detection of depression

Bachmann, Maie; Lass, Jaanus; Hinrikus, Hiie Biomedical signal processing and control 2017 / p. 391-397 : ill <https://doi.org/10.1016/j.bspc.2016.09.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sleep stage scoring on the basis of semi-automated EEG analysis

Lossmann, Eerik 1st Workshop on Industrial Mathematics for Nordic Ph.D.-students, 29.-31. August 1997, Hillerød, Denmark 1997 / [1] p

Some phase-sensitive and spectral methods in biomedical engineering

Meister, Ants 1994 http://www.eester.ee/record=b1066293*est

Spectral asymmetry and Higuchi's fractal dimension measures of depression electroencephalogram

Bachmann, Maie; Lass, Jaanus; Suhhova, Anna; Hinrikus, Hiie Computational and Mathematical Methods in Medicine 2013 / art. 251638 <https://doi.org/10.1155/2013/251638> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spectral asymmetry index and Higuchi's fractal dimension for detecting microwave radiation effect on electroencephalographic signal

Bachmann, Maie; Lass, Jaanus; Suhhova, Anna; Hinrikus, Hiie Proceedings of the Estonian Academy of Sciences 2014 / p. 234-239 : ill https://artiklid.elnet.ee/record=b2680563*est

A spectrum-based technique to analyze a pair of digitized signals

Lossmann, Eerik; Tuulik, Viu; Meister, Ants; Raja, Aimur The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 177-178 : ill

Study of effects of modulated microwaves by method of face masking

Rodina, Anastasia; Lass, Jaanus; Bachmann, T.; Hinrikus, Hiie Proceedings of the 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Vol. 25, A New Beginning for Human Health : volume 4 of 4 : 17-21 September 2003, Cancun, Mexico 2003 / p. 3249-3252 <https://ieeexplore.ieee.org/document/1280836>

Surrogate data method requires end-matched segmentation of electroencephalographic signals to estimate non-linearity

Päeske, Laura; Bachmann, Maie; Pöld, Toomas; Oliveira, Sara Pereira Mendes de; Lass, Jaanus; Raik, Jaan; Hinrikus, Hiie Frontiers in physiology 2018 / 1350 : 9 p. : ill <https://doi.org/10.3389/FPHYS.2018.01350> [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, Viiu; Meister, Ants; Lossmann, Eerik Proc. of a-Conference 1994 / p. 36

The dynamics of EEG rhythms in patients with chemical injuries of the CNS

Lossmann, Eerik; Salomonsson, G.; Tuulik, Viiu; Meister, Ants; Raja, Aimur MEDICON'95 : VII Mediterranean Conference on Medical & Biological Engineering (IFMBE) : conference abstracts, Jerusalem, Israel, 17-21 September, 1995 1995 / p. 130

The impact of the natural level of blood biochemicals on electroencephalographic markers in healthy people

Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Pöld, Toomas; Bachmann, Maie Sensors 2024 / art. 7438

<https://doi.org/10.3390/s24237438> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Une faaside liigitus EEG-signaali alusel wavelet-teisenduse ja närvivõrgu kasutamisega

Lossmann, Eerik Raadiotehnika '97 : ettekannete materjalid 1997 / lk. 55-64: ill

Valmis doktoritöö depressiooni tuvastamisest [Võrguväljaanne]

mu.ee 2021 "[Valmis doktoritöö depressiooni tuvastamisest](#)"