

### **Adaptive algorithms for heart rate reconstruction**

**Hinrikus, Hiie; Meigas, Kalju;** Kaik, Jüri; **Lass, Jaanus** Proceedings of the First Joint BMES/EMBS Conference : Serving Humanity Advancing Technology, Oct. 13-16, 99, Atlanta, GA, USA 1999 / p. 320

### **Adaptive sum comb filter for PPG signals by using ECG signal as reference**

**Pilt, Kristjan; Meigas, Kalju; Lass, Jaanus; Rosmann, M.; Kaik, Jüri** BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 317-320 : ill

### **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 alternative method for estimating muscle fatigue compared with continuous wavelet transform method**

**Tuulik, Viiu; Ferenets, Rain; Lass, Jaanus;** Helemäe, Jana; Vaht, Mai Proceedings of 2nd European Medical & Biological Engineering Conference EMBEC'02. 1 2002 / p. 396-397

### **An alternative muscle fatigue estimation method**

**Ferenets, Rain; Lass, Jaanus; Tuulik, Viiu;** Vaht, Mai IV International Workshop on Biosignal Interpretation : BSI2002, Como, Italy, 24th-26th June, 2002 : proceedings 2002 / p. 227-230 : ill

### **Analyse of T-wave morphology for discrimination of life threatening arrhythmias - preliminary study**

**Olli, Ülle; Karai, Deniss; Lass, Jaanus;** Kaik, Jüri; Vainu, Meelis Medicon 2001 : IX Mediterranean Conference on Medical and Biological Engineering and Computing : June 12-15, 2001, Pula, Croatia : [proceedings]. Part I 2001 / p. 344-347

### **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://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>

### **Application of the parameters, reflecting ventricular repolarization inhomogeneity for identification of patients with life-threatening arrhythmias**

**Kaik, Jüri; Lass, Jaanus; Meigas, Kalju** Proceedings of the 2nd International Conference on Bioelectromagnetism, 15-18 February 1998, Melbourne, Australia 1998 / p. 27-28: ill <https://ieeexplore.ieee.org/document/666378>

### **Arterial hypertension, left ventricular geometry and QT dispersion in a middle-aged Estonian female population**

**Shipilova, Tatjana; Pšenišnikov, Igor; Kaik, Jüri; Volozh, Olga; Abina, Jelena; Kalev, Maie; Lass, Jaanus; Karai, Deniss** Blood pressure 2003 / 1, p. 12-18

### **Assessment of objective symptoms of depression in occupational health examination**

**Pöld, Toomas; Päeske, Laura; Bachmann, Maie; Lass, Jaanus; Hinrikus, Hiie** Journal of occupational and environmental medicine 2019 / p. 605-609 <https://doi.org/10.1097/JOM.0000000000001622> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

### **Blood flow detection with diode laser**

**Meigas, Kalju; Hinrikus, Hiie; Kattai, Rain; Lass, Jaanus** 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, [3] p. : ill

### **Blood groups, blood pressure and left ventricular geometry in women**

**Shipilova, Tatjana; Pšenišnikov, Igor; Volozh, Olga; Abina, Jelena; Kalev, Maie; Kaik, Jüri; Lass, Jaanus; Karai, Deniss** Journal of hypertension 2002 / p. 20

### **Calculation of pulse wave transit time and its correlation with blood pressure using different physiological signals [Electronic resource]**

**Meigas, Kalju; Lass, Jaanus; Kattai, Rain; Karai, Deniss;** Kaik, Jüri Proceedings of World Congress on Medical Physics and

Biomedical Engineering, Sidney, Australia, 2003 2003 / [4] p. [CD-ROM]

**Can pulse wave transit time as a control parameter be used for rate adaptive cardiac pacing?**

**Lass, Jaanus; Hinrikus, Hiie; Meigas, Kalju; Kattai, Rain;** Kaik, Jüri Proceedings of 2nd European Medical & Biological Engineering Conference EMBE'02. 1 2002 / p. 636-637

**Changes in EEG caused by modulated microwave field**

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

**Coherent photodetection as a non-invasive method in medical diagnostics**

**Meigas, Kalju; Hinrikus, Hiie; Kattai, Rain; Lass, Jaanus** Biomedical Research and Industrial Participation in Europe : Trends and Future, April 27-28, 1998, Brussels / ESEM 1998 / p. 10

**Coherent photodetection for pulse profile registration**

**Meigas, Kalju; Hinrikus, Hiie; Kattai, Rain; Lass, Jaanus** Proceedings of Coherence Domain Optical Methods in Biomedical Science and Clinical Applications III : 27-29 January, 1999, San Jose, California 1999 / p. 195-202: ill

**Comparison of different heart rate reconstruction algorithms for rate adaptive cardiac pacing**

**Lass, Jaanus; Hinrikus, Hiie; Meigas, Kalju;** Kaik, Jüri Medical & biological engineering & computing 1999 / Suppl. 2, Proceedings of the European Medical & Biomedical Engineering Conference : EMBE'99 : November 4-7, 1999, Vienna, Austria. Part 2, p. 1282-1283

**Comparison of different physiological parameters for heart rate modelling in rate adaptive cardiac pacing**

**Lass, Jaanus; Hinrikus, Hiie; Meigas, Kalju;** Kaik, Jüri Proceedings of International Conference Biomedical Engineering, Kaunas University of Technology, 16-17 October 1997 1997 / p. 122-125: ill

**Comparison of different ventricular repolarisation phases from ECG for identifying patients with increased risk of sudden cardiac death**

**Lass, Jaanus;** Kaik, Jüri; **Karai, Deniss; Hinrikus, Hiie;** Vainu, Meelis IV International Workshop on Biosignal Interpretation : BS2002, Como, Italy, 24th-26th June, 2002 : proceedings 2002 / p. 393-396 : ill

**Comparison of photic and microwave simulation effects on EEG**

**Hinrikus, Hiie; Parts, Maie; Lass, Jaanus; Tuulik, Viu** Biological Effects of EMFs : 2nd International Workshop, Rhodes, Greece, 7-11 October 2002 : proceedings. Volume I 2002 / p. 482-489 : ill

**Comparison of signals of pulse profile as skin surface vibrations, PPG and Doppler spectrogram for continuous blood pressure monitoring**

**Meigas, Kalju; Kattai, Rain; Nigul, Mait; Lass, Jaanus** Proceedings of 2nd European Medical & Biological Engineering Conference EMBE'02. 1 2002 / p. 510-511

**Continuous blood pressure monitoring during exercise using pulse wave transit time measurement**

**Lass, Jaanus; Meigas, Kalju; Karai, Deniss; Kattai, Rain;** Kaik, Jüri; Rossmann, Mart Proceedings of the 26th Annual International Conference of the IEEE EMBC : San Francisco, CA, USA, September 1-5, 2004 2004 / p. 2239-2242 : ill

**Continuous blood pressure monitoring using method of optical self-mixing**

**Meigas, Kalju; Lass, Jaanus; Kattai, Rain** Workshop on Biomedical Information Engineering : 25-27 June, 2000, Istanbul - Turkey : proceedings 2000 / p. 97-100 : ill

**Continuous blood pressure monitoring using pulse wave delay**

**Meigas, Kalju; Kattai, Rain; Lass, Jaanus** 2001 Conference Proceedings of the 23rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society : 25-28 October 2001, Istanbul, Turkey. Vol. 4 2001 / p. 3171-3174 : ill

**Correlation between EEG functional connectivity and fasting blood glucose in healthy subjects**

**Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Pöld, Toomas; Bachmann, Maie** 2024 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2024 / p. 1 - 4 <https://ieeexplore.ieee.org/document/10781613>  
<https://doi.org/10.1109/EMBC53108.2024.10781613>

### **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 between measured surface and endocardial electrical signals of heart**

**Hinrikus, Hiie; Kaik, Jüri; Meigas, Kalju; Lass, Jaanus** Proceedings of the 2nd International Conference on Bioelectromagnetism, 15-18 February 1998, Melbourne, Australia 1998 / p. 127-128: ill <https://ieeexplore.ieee.org/document/666428>

### **Correlation between the invasive and non-invasive parameters of cardiac ventricular repolarization prolongation and inhomogeneity**

**Kaik, Jüri; Hinrikus, Hiie; Meigas, Kalju; Lass, Jaanus** VIII Mediterranean Conference on Medical and Biological Engineering and Computing : Medicon'98, June 14-17, 1998, Lemesos, Cyprus : [proceedings : CD-ROM] 1998 / [3] p

### **Correlation between the invasive and non-invasive parameters of cardiac ventricular repolarization prolongation and inhomogeneity**

**Kaik, Jüri; Hinrikus, Hiie; Meigas, Kalju; Lass, Jaanus** VIII Mediterranean Conference on Medical and Biological Engineering and Computing : Medicon'98, June 14-17, 1998, Lemesos, Cyprus : final programme and abstracts of papers 1998 / p. 190

### **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

### **Detrended fluctuation analysis of EEG in depression**

**Bachmann, Maie; Suhhova, Anna; Lass, Jaanus;** Aadamsoo, 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](https://doi.org/10.1007/978-3-319-00846-2_172) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Device for continuous blood pressure measurements**

**Meigas, Kalju; Lass, Jaanus; Karai, Deniss; Kattai, Rain; Kaik, Jüri** NBC'05 UMEA : 13th Nordic Baltic Conference on Biomedical Engineering and Medical Physics : June 13th-17th, 2005, Umea, Sweden 2005 / p. 164-165 : ill

### **ECG QT interval dispersion assessment to identify the sudden death risk of patients with various heart diseases**

**Kaik, Jüri; Meigas, Kalju; Lass, Jaanus;** Kaik, Veera Medical & biological engineering & computing 1999 / Suppl. 1, Proceedings of the 11th Nordic-Baltic Conference on Biomedical Engineering, June 6-10, 1999, Tallinn, Estonia, p. 240-241

### **Echocardiographic assessment of the different left ventricular geometric patterns in middle-aged men and women in Tallinn**

**Shipilova, Tatjana; Pšenitšnikov, Igor; Kaik, Jüri; Volozh, Olga; Abina, Jelena; Kalev, Maie; Lass, Jaanus; Meigas, Kalju** Blood pressure 2004 / 5/6, p. 284-290 <https://pubmed.ncbi.nlm.nih.gov/14763659/>

### **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 spectral asymmetry index detects differences between leaders and non-leaders**

**Pöld, Toomas; Bachmann, Maie; Orgo, Laura; Kalev, Kaia; Lass, Jaanus; 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. 17-20 [https://doi.org/10.1007/978-981-10-5122-7\\_5](https://doi.org/10.1007/978-981-10-5122-7_5) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **EEG spectral asymmetry index for detection of depression at individual and fixed frequency bands [Electronic resource]**

**Suhhova, Anna; Bachmann, Maie; Lass, Jaanus;** Aadamsoo, Kaire; Võhma, 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](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](https://doi.org/10.1007/978-981-10-9038-7_76) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Eesti Biomeditsiinitehnika ja Meditsiinifüüsika Ühing**

**Lass, Jaanus** Inseneria 2008 / 6, lk. 17 [https://artiklid.elnet.ee/record=b2040961\\*est](https://artiklid.elnet.ee/record=b2040961*est)

### **Eesti Biomeditsiinitehnika ja Meditsiinifüüsika Ühing = The Estonian Society for Biomedical Engineering and Medical Physics**

**Lass, Jaanus; Nazarenko, Sergei; Hinrikus, Hiie; Holmar, Jana** Tervisetehnoloogiad eile, täna, homme : 30 aastat Tervisetehnoloogiate instituuti ning Eesti Biomeditsiintehnika ja Meditsiinifüüsika 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. 13-15, p. 13-15 : ill

**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](https://doi.org/10.1007/978-3-319-19387-8_251) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Effect of coronary bypass surgery on QT interval dispersion as a measure of ventricular repolarization inhomogeneity**

**Kaik, Jüri; Lass, Jaanus; Hinrikus, Hiie; Meigas, Kalju; Graf, Aita; Kaik, Veera; Sulling, Toomas** 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

**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 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, Naples-Italy 2004 / [ 4] p. : ill. [CD-ROM]

**Effects of 7 Hz-modulated 450 MHz electromagnetic radiation on human performance in visual memory tasks**

**Lass, Jaanus; Tuulik, Viuu; Ferenets, Rain; Riisalo, R.; Hinrikus, Hiie** International journal of radiation biology 2002 / 10, p. 937-944 : ill [https://www.researchgate.net/publication/11005068\\_Effects\\_of\\_7\\_Hz-modulated\\_450\\_MHz\\_electromagnetic\\_radiation\\_on\\_human\\_performance\\_in\\_visual\\_memory\\_tasks](https://www.researchgate.net/publication/11005068_Effects_of_7_Hz-modulated_450_MHz_electromagnetic_radiation_on_human_performance_in_visual_memory_tasks)

**EMF as a low-level physical stressor**

**Lass, Jaanus; Tuulik, Viuu; Riisalo, Riina; Ferenets, Rain; Hinrikus, Hiie** Biological Effects of EMFs : Heraklio, Crete, Greece 17-20 October, 2000 : proceedings 2000 / p. 280-284 : ill

**EMF effect on attention and memory**

**Lass, Jaanus; Ferenets, Rain; Niimeister, R.; Riisalo, Riina; 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. 97-98

**Evaluation of the quality of rate adaption algorithms for cardiac pacing**

**Lass, Jaanus; Kaik, Jüri; Meigas, Kalju; Hinrikus, Hiie; Blinowska, A.** Europace 2001 / p. 221-228 : ill

**Füsioloogiliste signaalide süsteem sagedusadaptiivse südamestimulaatori tüürimiseks : magistritöö**

**Lass, Jaanus** 1996 [https://www.ester.ee/record=b2687125\\*est](https://www.ester.ee/record=b2687125*est)

**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

**Implementation of surface EMG for rehabilitation studies**

**Ferenets, Rain; Tuulik, Viuu; Lass, Jaanus** Medical & biological engineering & computing 1999 / Suppl. 1, Proceedings of the 11th Nordic-Baltic Conference on Biomedical Engineering, June 6-10, 1999, Tallinn, Estonia, p. 416-417: ill

**Individualisation of model for reconstruction of heart rate**

**Lass, Jaanus; Hinrikus, Hiie; Kaik, Jüri; Meigas, Kalju** VIII Mediterranean Conference on Medical and Biological Engineering and Computing : Medicon'98, June 14-17, 1998, Lemesos, Cyprus : [proceedings : CD-ROM] 1998 / [6] p. : ill

### **Individualisation of model for reconstruction of heart rate**

**Lass, Jaanus; Hinrikus, Hiie;** Kaik, Jüri; **Meigas, Kalju** VIII Mediterranean Conference on Medical and Biological Engineering and Computing : Medicon'98, June 14-17, 1998, Lemesos, Cyprus : final programme and abstracts of papers 1998 / p. 188

### **Influence of low-level microwave radiation on nerve pulse conduction velocity**

**Hinrikus, Hiie; Lass, Jaanus; Karai, Deniss;** Kalda, Jaak; **Tomson, Ruth; Tuulik, Viuu** Biological Effects of EMFs 3rd International Workshop : Kos, Greece, 4-8 October 2004 : proceedings. Volume 2 2004 / p. 641-648 : ill

### **Interaction of low-level microwave radiation with nervous system - a quasi-thermal effect?**

**Hinrikus, Hiie; Lass, Jaanus; Tuulik, Viuu** Proceedings of the Estonian Academy of Sciences. Engineering 2004 / 2, p. 82-94

### **Kes on meditsiinitehnikud ja -füüsikud ning miks tasub nendeks õppida?**

delfi.ee 2024 [Kes on meditsiinitehnikud ja -füüsikud ning miks tasub nendeks õppida?](#) [Kes on meditsiinitehnikud ja -füüsikud ning miks tasub nendeks õppida?](#)

### **Laser-doppler method for suspension flow detection using optical self-mixing in a diode laser**

**Meigas, Kalju; Hinrikus, Hiie; Kattai, Rain; Lass, Jaanus** Physica medica 1999 / 3, p. 190

### **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](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](#)

### **Limiting exposure to radiofrequency radiation : the principles and possible criteria for health protection**

**Hinrikus, Hiie; Koppel, Tarmo; Lass, Jaanus; Roosipuu, Priit; Bachmann, Maie** International Journal of Radiation Biology 2023 / p. 1167-1177 <https://doi.org/10.1080/09553002.2023.2159567> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

### **Low-level microwave effect on nerve pulse propagation velocity**

**Hinrikus, Hiie; Lass, Jaanus; Tuulik, Viuu** 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. 3253-3256 : ill <https://doi.org/10.1109/IEMBS.2003.1280837>

### **Low-level microwave effects on EEG**

**Hinrikus, Hiie; Lass, Jaanus; Tuulik, Viuu** 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, Viuu; 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-ee-g-alpha-and-theta-waves>

### **Low-level microwave effects on nervous system**

**Hinrikus, Hiie; Lass, Jaanus; Meigas, Kalju; Tuulik, Viuu** Biological Effects of EMFs : Heraklio, Crete, Greece 17-20 October, 2000 : proceedings 2000 / p. 320-329 : ill

### **Low-level microwave radiation effect on nerve pulse conduction velocity**

**Hinrikus, Hiie; Tomson, Ruth; Lass, Jaanus; Karai, Deniss;** Kalda, Jaak; **Tuulik, Viuu** The environmentalist 2005 / 2/4, p. 157-163 [https://www.researchgate.net/publication/227333897\\_Low-Level\\_Microwave\\_Radiation\\_Effect\\_on\\_Nerve\\_Pulse\\_Conduction\\_Velocity](https://www.researchgate.net/publication/227333897_Low-Level_Microwave_Radiation_Effect_on_Nerve_Pulse_Conduction_Velocity)

### **Low-level modulated microwave effect on EEG alpha-wave**

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

### **Measurement of correlation between heart rate and physiological parameters variations**

**Lass, Jaanus; Hinrikus, Hiie; Kaik, Jüri; Meigas, Kalju** Proceedings of the 19th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Oct. 30 - Nov. 2, 1997, Chicago, IL USA 1997 / p. 308-310: ill

### **Measurement of correlation between heart rate and physiological parameters variations**

**Lass, Jaanus; Hinrikus, Hiie; Kaik, Jüri; Meigas, Kalju** 19th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Oct. 30 - Nov. 2, 1997, Chicago IL USA : Magnificent Milestones and Emerging Opportunities in Medical Engineering : final program & abstract book 1997 / p. 63 <https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=754535>

### **Mechanism of low-level microwave radiation effect on brain : frequency limits**

**Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus** 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. 647-650 [https://doi.org/10.1007/978-981-10-5122-7\\_162](https://doi.org/10.1007/978-981-10-5122-7_162) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Mechanism of low-level microwave radiation effect on nervous system**

**Hinrikus, Hiie; Bachmann, Maie; Karai, Denis; Lass, Jaanus** Electromagnetic biology and medicine 2017 / p. 202-212 <https://doi.org/10.1080/15368378.2016.1251451> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Meditatsioonitehnika - terviseinseneering**

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

### **Method and device for beat-to-beat blood pressure measurements [Electronic resource]**

**Meigas, Kalju; Lass, Jaanus; Karai, Deniss; Kattai, Rain; Kaik, Jüri** IFMBE proceedings 2005 / [6] p. [CD-ROM]

### **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

### **Method of optical self-mixing for pulse wave transit time measurement in comparison with other methods and correlation with blood pressure**

**Meigas, Kalju; Lass, Jaanus; Kattai, Rain; Karai, Deniss; Kaik, Jüri** Coherence Domain Optical Methods and Optical Coherence Tomography in Biomedicine VIII : 26-28 January 2004, San Jose, California, USA 2004 / p. 444-453 : ill [https://www.spiedigitallibrary.org/conference-proceedings-of-spie/5316/1/Method-of-optical-self-mixing-for-pulse-wave-transit-time/10.1117/12.524273.full#\\_](https://www.spiedigitallibrary.org/conference-proceedings-of-spie/5316/1/Method-of-optical-self-mixing-for-pulse-wave-transit-time/10.1117/12.524273.full#_)

### **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 effect on diffusion: A possible mechanism for non-thermal effect**

**Hinrikus, Hiie; Lass, Jaanus; Karai, Denis; Pilt, Kristjan; Bachmann, Maie** Electromagnetic Biology and Medicine 2015 / p. 327 - 333 <https://doi.org/10.3109/15368378.2014.921195> [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, Viuu** 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/>

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

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

### **Mobiiltelefonide kahjulikkust pole suudetud ametlikult tõestada: [Hiie Hinrikuse ja Jaanus Lassi seisukohtadest seminaril Tartus]**

**Karuse, Kaupo; Hinrikus, Hiie; Lass, Jaanus** Pärnu Postimees 1999 / 8. detsembr., lk. 9: ill

### **Modelling of heart rate, based on measured physiological parameters for rate adaptive cardiac pacing**

**Meigas, Kalju; Hinrikus, Hiie; Kaik, Jüri; Lass, Jaanus; Sliwa, Waldemar** Medical & biological engineering & computing 1997 / Part 1, World Congress on Medical Physics and Biomedical Engineering : XVIII International Conference on Medical and Biological Engineering and XI International Conference on Medical Physics, September 14-19, 1997, Nice, France, p. 447

### **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](https://artiklid.elnet.ee/record=b1022240*est)

### **Modulated microwave effects on EEG**

**Lass, Jaanus; Parts, Maie; Tuulik, Viiu; 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, Viiu; 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

### **Monitoring blood pressure from pulse wave transit time**

**Tepner, Ingrid; Lass, Jaanus; Karai, Deniss; Hinrikus, Hiie; Meigas, Kalju** IV International Workshop on Biosignal Interpretation : BSI2002, Como, Italy, 24th-26th June, 2002 : proceedings 2002 / p. 239-242 : ill

### **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](#)

### **New findings in modulated microwave effects on EEG**

**Lass, Jaanus; Parts, Maie; Tuulik, Viiu; 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

### **Non-contact measurement of skin vibrations induced by blood pressure**

**Meigas, Kalju; Lass, Jaanus; Kattai, Rain** Automatika : ATKAAF 1999 / 1/2, p. 31-35 : ill

### **Noninvasive multiparameter registration system for evaluating physiological condition**

**Lass, Jaanus; Meigas, Kalju; Hinrikus, Hiie; Kaik, Jüri** Proceedings of the Estonian Academy of Sciences. Engineering 1999 / 4, p. 293-303: ill [https://artiklid.elnet.ee/record=b1002531\\*est](https://artiklid.elnet.ee/record=b1002531*est)

### **Non-ionising radiation effects on brain electrical activity**

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

### **Non-linear analysis of the electro-encephalogram for detecting effects of low-level electromagnetic fields**

**Bachmann, Maie; Kalda, Jaan; Lass, Jaanus; Tuulik, Viiu; Säkki, Maksim; Hinrikus, Hiie** Medical & biological engineering & computing 2005 / 1, p. 142-149 : ill <https://link.springer.com/article/10.1007/BF02345136>

### **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](https://www.researchgate.net/publication/227317313_Non-Thermal_Effect_of_Microwave_Radiation_on_Human_Brain)

### **Optical and electrical methods for pulse wave transit time measurement and its correlation with arterial blood pressure**

**Lass, Jaanus; Meigas, Kalju; Kattai, Rain; Karai, Deniss; Kaik, Jüri; Rossmann, Mart** Proceedings of the Estonian Academy of Sciences. Engineering 2004 / 2, p. 123-136 : ill

### **Optical method for pulse wave velocity and pulse profile registration**

**Meigas, Kalju; Hinrikus, Hiie; Kattai, Rain; Lass, Jaanus** Medical & biological engineering & computing 1999 / Suppl. 2, Proceedings of the European Medical & Biomedical Engineering Conference : EMBE'99 : November 4-7, 1999, Vienna, Austria. Part 2, p. 924-925: ill

### **Optical self-mixing as a method for blood flow detection**

**Kattai, Rain; Meigas, Kalju; Lass, Jaanus** Biomedical Engineering : proceedings of International Conference, Kaunas, 22-23 October, 1998 1998 / p. 5-8: ill

### **Optical Self-mixing in a diode laser as a method for no touch pulse measurement**

**Meigas, Kalju; Hinrikus, Hiie; Lass, Jaanus; Kattai, Rain** VIII Mediterranean Conference on Medical and Biological Engineering and Computing : Medicon'98, June 14-17, 1998, Lemesos, Cyprus : final programme and abstracts of papers 1998 / p. 184

### **Optical Self-mixing in a diode laser as a method for no touch pulse measurement**

**Meigas, Kalju; Hinrikus, Hiie; Lass, Jaanus; Kattai, Rain** VIII Mediterranean Conference on Medical and Biological Engineering and Computing : Medicon'98, June 14-17, 1998, Lemesos, Cyprus : [proceedings : CD-ROM] 1998 / [6] p. : ill

### **Optimising of signal processing parameters in cardiovascular diagnostics**

**Meigas, Kalju; Kattai, Rain; Lass, Jaanus** Medicon 2001 : IX Mediterranean Conference on Medical and Biological Engineering

and Computing : June 12-15, 2001, Pula, Croatia : [proceedings]. Part I 2001 / p. 328-331 : 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/>

**Physiological signals system design for pacemaker adaptation**

**Meigas, Kalju; Lass, Jaanus; Hinrikus, Hiie** 10th Nordic-Baltic Conference on Biomedical Engineering. Satellite Symposium on Bioelectromagnetic and Biomechanic Measurements, June 13-15, 1996, Tallinn, Estonia 1996 / p. 5-6

**Possible health effects on the human brain by various generations of mobile telecommunication: a review based estimation of 5G impact**

**Hinrikus, Hiie; Koppel, Tarmo; Lass, Jaanus; Roosipuu, Priit; Bachmann, Maie** International Journal of Radiation Biology 2022 / p. 1210-1221 <https://doi.org/10.1080/09553002.2022.2026516> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [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

**Proceedings of the 11th Nordic-Baltic Conference on Biomedical Engineering, June 6-10, 1999, Tallinn, Estonia**

**Hinrikus, Hiie; Meigas, Kalju; Lass, Jaanus; Riipulk, Jevgeni** 1999 [https://www.ester.ee/record=b1292540\\*est](https://www.ester.ee/record=b1292540*est)

**Propagation velocity in nerve fibre exposed microwave**

**Hinrikus, Hiie; Lass, Jaanus; Tuulik, Viuu** EBEA 2003 : 6th International Congress of the European Bioelectromagnetics Association (EBEA) : 13-15 November 2003 : Budapest, Hungary : book of abstracts 2003 / p. 218

**Pulse parameters registration using self-mixing in a diode laser as optical coherent method**

**Meigas, Kalju; Kattai, Rain; Lass, Jaanus** Medical & biological engineering & computing 1999 / Suppl. 1, Proceedings of the 11th Nordic-Baltic Conference on Biomedical Engineering, June 6-10, 1999, Tallinn, Estonia, p. 93-96: ill

**Pulse profile registration using self-mixing in diode laser**

**Meigas, Kalju; Hinrikus, Hiie; Lass, Jaanus; Kattai, Rain** Proceedings of the 20th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Vol. 20, no. 4, Biomedical Engineering Towards the Year 2000 and Beyond : Hong Kong SAR, China, October 29-November 1, 1998 1998 / p. 1875-1878 : ill

**Pulse wave parameters as indicators of the state of the arteries**

**Hinrikus, Hiie; Lass, Jaanus; Karai, Deniss; Tepner, Ingrid** Proceedings of 2nd European Medical & Biological Engineering Conference EMBEC'02. 1 2002 / p. 642-643

**Pulse wave time delay for blood pressure monitoring**

**Meigas, Kalju; Kattai, Rain; Lass, Jaanus** 12th Nordic Baltic Conference on Biomedical Engineering and Medical Physics : 12NBC 2002, June 18th-22nd, Reykjavik, Iceland 2002 / p. 54-55 : ill

**QT dispersion in relation to left ventricular geometry and hypertension in a population study**

Pšenitšnikov, Igor; Shipilova, Tatjana; Kaik, Jüri; Volozh, Olga; Abina, Jelena; **Lass, Jaanus; Karai, Deniss** Scandinavian cardiovascular journal : SCJ 2003 / 2, p. 87-90

**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

**Quasi-thermal effect of microwave radiation**

**Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus** Biological Effects of EMFs 3rd International Workshop : Kos, Greece, 4-8 October 2004 : proceedings. Volume 1 2004 / p. 74

**Recruitment gradation in SEMG as a basis for testing the fatigability of the muscles**

Helemäe, Jana; **Tuulik, Viuu; Lass, Jaanus** 2001 Conference Proceedings of the 23rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society : 25-28 October 2001, Istanbul, Turkey. Vol. 2 2001 / p. 1090-1092 : ill  
<https://apps.dtic.mil/sti/tr/pdf/ADA409781.pdf>

**Relationship of the correlation between EEG and heart rate variability with cardiovascular indicators**

**Vihmaru, Merilin; Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Põld, Toomas; Bachmann, Maie** 9th European Medical and Biological Engineering Conference : Proceedings of EMBEC 2024 ; Volume 2 2024 / p. 266 - 273  
<https://www.springerprofessional.de/en/relationship-of-the-correlation-between-eeeg-and-heart-rate-varia/27164904> [https://doi.org/10.1007/978-3-031-61628-0\\_29](https://doi.org/10.1007/978-3-031-61628-0_29) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)



### **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](#)

### **Reproducibility of non-invasive parameters which reflect cardiac ventricular repolarization prolongation and inhomogeneity**

**Kaik, Jüri; Lass, Jaanus; Meigas, Kalju;** Kaik, Veera Medical & biological engineering & computing 1999 / Suppl. 1, Proceedings of the 11th Nordic-Baltic Conference on Biomedical Engineering, June 6-10, 1999, Tallinn, Estonia, p. 230-231

### **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, Latvija : [abstracts] 2012 / p. 661 : ill [https://link.springer.com/chapter/10.1007/978-3-642-34197-7\\_12](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](https://doi.org/10.1007/978-3-642-34197-7_12) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Self-mixing in a diode laser as a method for cardiovascular diagnostics**

**Meigas, Kalju; Hinrikus, Hiie; Kattai, Rain; Lass, Jaanus** Journal of biomedical optics 2003 / 1, p. 152-160

### **Self-mixing in a diode laser as a method for coherent photodetection**

**Meigas, Kalju; Hinrikus, Hiie; Lass, Jaanus; Kattai, Rain** Proceedings of the Estonian Academy of Sciences. Engineering 1998 / 4, p. 307-316

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

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

### **Simple coherence method for blood flow detection**

**Meigas, Kalju; Hinrikus, Hiie; Kattai, Rain; Lass, Jaanus** Coherence Domain Optical Methods in Biomedical Science and Clinical Applications IV : 24-26 January, 2000, San Jose, California 2000 / p. 112-120 : ill <https://www.spiedigitallibrary.org/conference-proceedings-of-spie/3915/0000/Simple-coherence-method-for-blood-flow-detection/10.1117/12.384147.short>

### **Simple laser-diode device for particles suspension flow detection**

**Kattai, Rain; Meigas, Kalju; Lass, Jaanus** Medical & biological engineering & computing 1999 / Suppl. 1, Proceedings of the 11th Nordic-Baltic Conference on Biomedical Engineering, June 6-10, 1999, Tallinn, Estonia, p. 313-314: ill

### **Simultaneous measurement of rate adaptive heart pacemaker sensing parameters**

**Lass, Jaanus; Meigas, Kalju; Hinrikus, Hiie** 10th Nordic-Baltic Conference on Biomedical Engineering. Satellite Symposium on Bioelectromagnetic and Biomechanic Measurements, June 13-15, 1996, Tallinn, Estonia 1996 / p. 7-8: ill

### **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](#)

### **Skin surface vibration measurement by optical self mixing in a diode laser**

**Meigas, Kalju; Lass, Jaanus; Kattai, Rain** 8th International IMEKO Conference on Measurement in Clinical Medicine Biomedical Measurement and Instrumentation & 12th International Symposium on Biomedical Engineering, Dubrovnik, Croatia, September 16-19, 1998 : proceedings 1998 / p. 2.42-2.45: ill

### **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](https://artiklid.elnet.ee/record=b2680563*est)

### **Stability of the relationship between pulse wave delay and arterial blood pressure**

**Hinrikus, Hiie; Tepner, Ingrid; Lass, Jaanus; Karai, Deniss** 12th Nordic Baltic Conference on Biomedical Engineering and Medical Physics : 12NBC 2002, June 18th-22nd, Reykjavik, Iceland 2002 / p. 22-23

### **Study of effects of low level microwave field by method of face masking**

**Rodina, Anastasia; Lass, Jaanus; Riipulk, Jevgeni; Bachmann, Talis; Hinrikus, Hiie** Bioelectromagnetics 2005 / p. 571-577  
<https://pubmed.ncbi.nlm.nih.gov/16142782/>

**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>

**Study of effects of modulated microwaves on perceptual system of visual information processing**

**Lass, Jaanus**; Rodina, Anastasia; Bachmann, T.; **Hinrikus, Hiie** Book of abstracts of 6th International Congress of the European Bioelectromagnetics Association : Budapest, Hungary, 2003 2003 / p. 84

**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](#)

**System for simultaneous registration of different physiological parameters during exercise**

**Meigas, Kalju; Lass, Jaanus; Hinrikus, Hiie** Measurement '97 : International Conference on Measurement, Smolenice, Slovak Republic, May 29-31, 1997 : proceedings 1997 / p. 242-245: ill

**System of electrically measured physiological parameters for reconstruction of heart rate**

**Lass, Jaanus; Meigas, Kalju; Hinrikus, Hiie**; Kaik, Jüri Proceedings of the 2nd International Conference on Bioelectromagnetism, 15-18 February 1998, Melbourne, Australia 1998 / p. 153-154: ill <https://ieeexplore.ieee.org/document/666441>

**Tehnika elu kvaliteedi parandamiseks - biomeditsiinitehnika**

**Hinrikus, Hiie; Lass, Jaanus; Lipping, Tarmo; Meigas, Kalju; Riipulk, Jevgeni** Teadusmõtte Eestis : tehnikateadused 2002 / lk. 31-37 : ill

**Temporal stability and correlation of EEG markers and depression questionnaires scores in healthy people**

**Pöld, Toomas; Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Bachmann, Maie** Scientific reports 2023 / art. 21996  
<https://doi.org/10.1038/s41598-023-49237-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The effects of the 7Hz modulated microwaves on Human brain activity**

**Hinrikus, Hiie; Lass, Jaanus; Parts, Maie; Ferenets, Rain; Tuulik, Viuu** 12th Nordic Baltic Conference on Biomedical Engineering and Medical Physics : 12NBC 2002, June 18th-22nd, Reykjavik, Iceland 2002 / p. 138-139

**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](#)

**The new analysing method for the surface EMG data**

**Tuulik, Viuu; Ferenets, Rain; Lass, Jaanus**; Vaht, Mai 3rd International Conference on Bioelectromagnetism and 1st Slovenian-Croatian Meeting on Biomedical Engineering : 8-12 October 2000, Bled, Slovenia : proceedings 2000 / p. 119-120 : ill

**The new methods for the analyzing of surface EMG signals**

**Tuulik, Viuu; Ferenets, Rain; Lass, Jaanus**; Helemäe, Jana 78th ICB Seminar : Warsaw, Poland, 2004 2004 / [7] p

**The sensitivity of living tissue to microwave field**

**Lass, Jaanus; Riipulk, Jevgeni; Hinrikus, Hiie** Proceedings of the 20th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Vol. 20, no. 6, Biomedical Engineering Towards the Year 2000 and Beyond, Hong Kong SAR, China, October 29-November 1, 1998 1998 / p. 3249-3252

**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](#)

**Tootjaid on vähe, arendajaid veelgi vähem**

**Lass, Jaanus** Inseneria 2008 / 2, lk. 28-29 [https://artiklid.elnet.ee/record=b2056368\\*est](https://artiklid.elnet.ee/record=b2056368*est)

**Understanding physical mechanism of low-level microwave radiation effect**

**Hinrikus, Hiie; Bachmann, Maie; Lass, Jaanus** International journal of radiation biology 2018 / p. 877-882 : ill  
<https://doi.org/10.1080/09553002.2018.1478158> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Ventricular repolarization evaluation from surface ECG for identification of the patients with increased myocardial electrical instability**

**Lass, Jaanus; Kaik, Jüri; Karai, Deniss;** Vainu, Meelis 2001 Conference Proceedings of the 23rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society : 25-28 October 2001, Istanbul, Turkey. Vol. 1 2001 / p. 390-393 : ill  
<https://ieeexplore.ieee.org/document/1018943>