

A healthier chip?

Ubar, Raimund-Johannes; Fridolin, Ivo; Meigas, Kalju; Min, Mart Public service review : European Union 2010 / p. 132-133 : ill

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 secure data transmission method for OSI level 1

Lallo, Pauli; Meigas, Kalju 2005 <https://digi.lib.ttu.ee/i/?15> https://www.ester.ee/record=b1733221*est

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

Analysis of ventricular repolarization signals in obstructive sleep apnea = Ventrikulaarse repolarisatsiooni signaalide analüüs obstruktiivse uneapnoe korral

Viigimäe, Moonika 2018 <https://digi.lib.ttu.ee/i/?9342>

Aortic and arterial pulse wave velocity in patients with coronary heart disease of different severity

Hlimonenko, Irina; Meigas, Kalju; Viigimaa, Margus; Temitski, Kristina Estonian journal of engineering 2008 / 2, p. 167-176 : ill

Aortic augmentation index is dependent on bodyside in healthy young subjects

Einstein, Sandra; Pilt, Kristjan; Palmar, Merlin; Meigas, Kalju; Viigimaa, Margus High Blood Pressure & Cardiovascular Prevention 2019 / p. 375-382 : ill <https://doi.org/10.1007/s40292-019-00335-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application of novel QT interval correction and QT/RR assessment models to ECG 24-hour recordings in cardiac patients

Veski, Kristi; Karai, Deniss; Pilt, Kristjan; Meigas, Kalju; Kaik, Jüri Estonian journal of engineering 2010 / 1, p. 107-120 : ill

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

Arterial pulse wave analysis during cold pressor test in patients with borderline hypertension [Electronic resource]

Hlimonenko, Irina; Meigas, Kalju; Vahisalu, Rein IFMBE proceedings 2005 / [5] p. [CD-ROM]

Arterial pulse waveform dependence on applied pressure

Pilt, Kristjan; Meigas, Kalju; Viigimaa, Margus; Kaik, Jüri; Kattai, Rain; Karai, Deniss BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 277-280 : ill

Arterial stiffness assessment for early diagnosis of atherosclerosis

Pikta, Marika; Viigimaa, Margus; Pilt, Kristjan; Kõöts, Kristina; Meigas, Kalju Cardiology 2015 / p. 32 <https://www.karger.com/Article/Abstract/431110>

Assessment of algorithms for detecting an arterial pulse pressure wave equiphase point

Temitski, Kristina; Lauri, J.; Pilt, Kristjan; Meigas, Kalju; Viigimaa, Margus BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 191-194 : ill

Assessment of associations between arterial mechanical properties and biochemical blood markers for early detection of atherosclerosis

Kõöts, Kristina; Pilt, Kristjan; Sepa, Madis; Pikta, Marika; Fridolin, Ivo; Meigas, Kalju; Viigimaa, Margus 8th European Medical and Biological Engineering Conference : proceedings of the EMBEC 2020, November 29 – December 3, 2020 Portorož, Slovenia 2021 / p. 121-129 https://doi.org/10.1007/978-3-030-64610-3_15 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Association between optical signal derived aortic augmentation index and cardiovascular risk factors in healthy volunteers

Pikta, Marika; Viigimaa, Margus; Pilt, Kristjan; Kõöts, Kristina; Meigas, Kalju Reports on global health research 2020 / art. 119, 8 p. : ill <https://doi.org/10.29011/rghr-119.100019> <https://www.gavinpublishers.com/article/view/association-between-optical-signal-derived-aortic-augmentation-index-and-cardiovascular-risk-factors-in-healthy-volunteers>

Baltic biomedical engineering and physics MSc courses

Auzinsh, Marcis; Spigulis, Janis; Dekhtyar, Yuri; Knets, I.; Katashev, A.; **Hinrikus, Hiie; Meigas, Kalju**; Kingisepp, Peet-Henn; Soosaar, Andres; Lukosevicius, A.; Öberg, Ake; Roberts, Colin; Tabakov, S.; Lee, J. 2000

Baltic MSc courses on medical physics and biomedical engineering

Auzinsh, Marcis; **Hinrikus, Hiie; Meigas, Kalju** International Conference on Medical Physics and Engineering in Health Care : Poznan, Poland, 2001 2001 / p. 037

A benchmark suite for evaluating the efficiency of test tools

Kruus, Helena; Ubar, Raimund-Johannes; Ellervee, Peeter; Gorev, Maksim; Pesonen, Vadim; Devadze, Sergei; Orasson, Elmet; Brik, Marina; Min, Mart; Annus, Paul; Kruus, Margus; Meigas, Kalju BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 85-88 : ill

Biomedical engineering and medical physics education and professional accreditation in Estonia

Hinrikus, Hiie; Meigas, Kalju 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

Biomedical engineering and medical physics education in Estonia

Hinrikus, Hiie; Meigas, Kalju 12th Nordic Baltic Conference on Biomedical Engineering and Medical Physics : 12NBC 2002, June 18th-22nd, Reykjavik, Iceland 2002 / p. 110-111

Biomedical engineering education and professional accreditation in Estonia

Hinrikus, Hiie; Lipping, Tarmo; Meigas, Kalju Proceedings of 2nd European Medical & Biological Engineering Conference EMBE'02. 1 2002 / p. 682-683

Biomedical engineering education and professional accreditation in Estonia

Meigas, Kalju; 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. 146-148

Biomeditsiiniinsener - kes see on?

Meigas, Kalju; Kello, Karl Õpetajate Leht 2009 / 11. det., lk. 9 : portr

Biomeditsiinitehnika - tehnoloogia tervise heaks

Hinrikus, Hiie; Bachmann, Maie; Pilt, Kristjan; Meigas, Kalju; Fridolin, Ivo Teadusmõtte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 48-58 : ill https://www.ester.ee/record=b5208765*est

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

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

Change of arterial pulse wave in patients with hyperlipidaemia

Hlmonenko, Irina; Meigas, Kalju; Vahisalu, Rein NBC'05 UMEA : 13th Nordic Baltic Conference on Biomedical Engineering and Medical Physics : June 13th-17th, 2005, Umea, Sweden 2005 / p. 160-161 : 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

Coherent photodetection with a laser

Meigas, Kalju 1997 https://www.ester.ee/record=b1059446*est

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 : EMBEC'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 ECG QT interval and monomorphic action potential duration dynamicity at heart rate variations

Meigas, Kalju; Hinrikus, Hiie 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. 435

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 EMBEC'02. 1 2002 / p. 510-511

Construction of gender-specific regression models for aortic length estimation based on computed tomography images

Zemtsovskaja, Galina; Pilt, Kristjan; Samarin, Andrei; **Albina, Jelena; Meigas, Kalju; Viigimaa, Margus** Health and technology 2020 / p. 679–687 : ill <https://doi.org/10.1007/s12553-019-00391-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 aortic stiffness and conventional risk factors with coronary atherosclerosis

Zemtsovskaja, Galina; Zemtsovski, Mihhail; Abina, Jelena; Samarin, Andrei; Meigas, Kalju; Viigimaa, Margus Cardiology 2015 / p. 39 <https://www.karger.com/Article/Abstract/431110>

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

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

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

Determinants and a predictive equation for the aortic length estimation

Zemtsovskaja, Galina; Samarin, Andrei; Abina, Jelena; Meigas, Kalju; Viigimaa, Margus International journal of innovative research in science, engineering and technology 2016 / p. 3336-3350 : ill https://www.ijirset.com/upload/2016/march/115_Determinants_hard_foriegn.pdf

Device and methods for performing transesophageal stimulation at reduced pacing current threshold

Anier, Andres; Kaik, Jüri; Meigas, Kalju Estonian journal of engineering 2008 / 2, p. 154-166 : ill

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/>

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

Elektrilised meditsiiniseadmed

Aid, Siim; **Meigas, Kalju; Risthein, Endel**; Leitmäe, Urmas 2000 https://www.ester.ee/record=b1378853*est

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

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

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

Health risks to computer-workers in various indoor facilities [Electronic resource]

Tint, Piia; Toomeoja, K.; Tuulik, Viuu; Karai, Deniss; **Meigas, Kalju** Riga Technical University 54th International Scientific Conference Scientific Conference on Economics and Entrepreneurship (SCEE'2013) : proceedings 2013 / [2] p [CD-ROM]

High-sensitive compact laser device for moving particle registration

Hinrikus, Hiie; Meigas, Kalju Laser optics 93 : summaries of papers, St.Petersburg, June 21-25, 1993 1993

High-sensitivity compact moving particles detector with an external-cavity laser diode

Meigas, Kalju Tallinna Tehnikaülikooli Toimetised 1994 / lk. 82-88: ill

Increased pulse wave velocity strongly related to age in apparently healthy people of high cardiovascular risk population

Zemtsovskaja, Galina; Pilt, Kristjan; Albina, Jelena; **Meigas, Kalju; Viigimaa, Margus** European Heart Journal 2020 / ehaa946.3783 <https://doi.org/10.1093/ehjci/ehaa946.3783>

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

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

Influence of gender on the QT interval variability and duration in different wake-sleep stages in non-sleep apneic individuals : analysis of polysomnographic recordings

Viigimäe, Moonika; Karai, Deniss; Pilt, Kristjan; Polo, Olli; Huhtala, Heini; **Meigas, Kalju; Kaik, Jüri** Journal of electrocardiology 2017 / p. 444-449 : ill <http://dx.doi.org/10.1016/j.jelectrocard.2017.03.012>

Intima-media thickness of the common carotid artery of patients with chronic kidney disease

Silluta, Sandra; Pilt, Kristjan; Kõõts, Kristina; Viigimaa, Margus; Meigas, Kalju Cardiology 2015 / p. 37 <https://www.karger.com/Article/Abstract/431110>

Investigation of photoplethysmographic signal augmentation index estimation differences between fingers

Pilt, Kristjan; Silluta, Sandra; Kõõts, Kristina; Karai, Deniss; Meigas, Kalju; Viigimaa, Margus 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. 819-822 : ill https://doi.org/10.1007/978-981-10-5122-7_205

Joint Baltic Biomedical Engineering and Physics Courses

Dekhtyar, Yuri; **Hinrikus, Hiie; Meigas, Kalju** Physica medica 1999 / 3, p. 216

Joint Baltic biomedical engineering and physics courses

Dekhtyar, Yuri; **Hinrikus, Hiie**; Katashev, Alexei; Kingisepp, Peet-Henn; Lukosevicius, Arunas; **Meigas, Kalju**; Öberg, Ake; Soosaar, Andres; Spigulis, Janis; Tabakov, Slavik Medical & biological engineering & computing 1999 / Suppl. 1, Proceedings of the 11th

Laser doppler device for air pollution detection

Hinrikus, Hiie; Meigas, Kalju Proceedings of European Symposium on Optics for Productivity in Manufacturing, 20-24 June 1994, Frankfurt/Main, FR Germany 1994 / p. 38-47

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

Low-level microwave effects on nervous system

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

Measurements of arteries by laser

Meigas, Kalju Estonian Science Foundation 2008 2009 / p. 17-18 : ill

Medical physics in joint Baltic courses

Hinrikus, Hiie; Dekhtyar, Yuri; Lukosevicius, Arunas; Meigas, Kalju; Öberg, Ake; Riipulk, Jevgeni; Roberts, Colin; Tabakov, Slavik Medical & biological engineering & computing 1999 / Suppl. 1, Proceedings of the 11th Nordic-Baltic Conference on Biomedical Engineering, June 6-10, 1999, Tallinn, Estonia, p. 159-160

Meditsiinitehnika - terviseinseneering

Hinrikus, Hiie; Lass, Jaanus; Meigas, Kalju; Fridolin, Ivo Teadusmõtte 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 small particle detection by laser

Meigas, Kalju Optical engineering 1998 / 9, p. 2587-2591: 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

Mikrolaine- ja optiline tehnika : loengumaterjalid biomeditsiinitehnika ja meditsiinifüüsika magistriõppe üliõpilastele

2012 http://www.eester.ee/record=b2860846*est

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

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

Moving particles laser detector

Hinrikus, Hiie; Meigas, Kalju 19 convention on radio science : abstracts 1993

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

Non-ionising radiation effects on brain electrical activity

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

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 : EMBEC'99 : November 4-7, 1999, Vienna, Austria. Part 2, p. 924-925: ill

Optical pulse wave signal analysis for determination of early arterial ageing in diabetic patients = Optilise pulsilaine signaali analüüs arterite varase vananemise määramiseks diabeedihigetel

Pilt, Kristjan 2014 https://www.ester.ee/record=b3049979*est

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

Photoplethysmographic signal processing using adaptive sum comb filter for pulse delay measurement

Pilt, Kristjan; Meigas, Kalju; Ferenets, Rain; Kaik, Jüri Estonian journal of engineering 2010 / 1, p. 78-94 : ill
https://artiklid.elnet.ee/record=b1964973*est

Photoplethysmographic signal rising front analysis for the discrimination of subjects with increased arterial ageing

Pilt, Kristjan; Meigas, Kalju; Kõots, Kristina; Viigimaa, Margus Proceedings of the Estonian Academy of Sciences 2014 / p. 221-226 : ill

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

Possibility to use Finapres signal for the estimation of aortic pulse wave velocity [Electronic resource]

Pilt, Kristjan; Meigas, Kalju; Viigimaa, Margus; Temitski, Kristina IFMBE proceedings ; Vol. 37 2011 / p. 524-527 : ill [CD-ROM]

Prevention of computer worker health disturbances caused by physical and physiological risk

Pille, Viive; Oha, Kristel; Lauri, Mariliis; Tint, Piia; Tuulik-Leisi, Varje-Riin; Tuulik, Viiu; Meigas, Kalju Proceedings of the Latvian Academy of Sciences. Section B, Natural, exact, and applied sciences 2016 / p. 308-314 : ill <https://doi.org/10.1515/prolas-2016-0047>

Prevention of physiological and psychological stress at computer-equipped workplaces

Tint, Piia; Meigas, Kalju; Tuulik, Viiu; Pille, Viive; Oha, Kristel; Reinhold, Karin; Karai, Deniss; Tuulik-Leisi, Varje-Riin; Lauri, Mariliis Human factors : sustainable life and mobility : proceedings of the Human Factors and Ergonomics Society Europe Chapter 2013 Annual Conference 2014 / p. 229-240 : 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

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

Pulse wave registration from radial artery using photoplethysmographic method

Pilt, Kristjan; Leier, Mairo; Silluta, Sandra; Kööts, Kristina; Meigas, Kalju; Viigimaa, Margus Conference proceedings : 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : Milan, Italy, August 25-29 2015 2015 / p. 6425-6428 : ill <http://dx.doi.org/10.1109/EMBC.2015.7319863>

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

Pulse wave transit time in patients with hyperlipidaemia and hypertension [Electronic resource]

Hlilimonenko, Irina; **Nigul, Mait; Meigas, Kalju**; Vahisalu, Rein 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]

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

Second derivative analysis of forehead photoplethysmographic signal in healthy volunteers and diabetes patients [Electronic resource]

Pilt, Kristjan; Meigas, Kalju; Temitski, Kristina; Viigimaa, Margus IFMBE proceedings ; Vol. 39 2012 / p. 410-413 : ill [CD-ROM]

Second derivative photoplethysmographic signal analysis of differences between fingers in healthy subjects [Online resource]

Pilt, Kristjan; Silluta, Sandra; Palmar, Merlin; Karai, Deniss; Meigas, Kalju; Viigimaa, Margus BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2019 / 4 p. : ill <https://doi.org/10.1109/BEC.2018.8600985>

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

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 and microwave devices for moving objects measurement

Hinrikus, Hiie; Krasavin, Jevgeni; Meigas, Kalju Proceedings of 8. Symposium Maritime Elektronik, Apr. 1995, Rostock 1995 / p. 53-56: ill

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

Simple system for quality assessment of radioaerosols in daily clinical practice

Meigas, Kalju; Nazarenko, Sergei Medical & biological engineering & computing 1996 / Part 1, Proceedings of the 10th Nordic-Baltic Conference on Biomedical Engineering, June 9-13, 1996, Tampere, Finland, p. 249-250: 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

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

Stroke volume assessment by impedance cardiography : comparative analysis with transthoracic echocardiography

Silluta, Sandra; Pilt, Kristjan; Bischler, Elja; Kõõts, Kristina; Meigas, Kalju; Viigimaa, Margus 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. 398-401 https://doi.org/10.1007/978-981-10-5122-7_100

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

Tehnika elu kvaliteedi parandamiseks - biomeditsiinitehnika

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

Tehnikaülikool biomeditsiinitehnika maailmakaardil : [valdkondlik arutelu]

Hinrikus, Hiie; Meigas, Kalju; Kalda, Jaan; Nigul, Priit; Paats, Andrus Tallinna Tehnikaülikooli kaheksakümnes aastapäev 2000 / lk. 70-80

Tehnomeedikum

Meigas, Kalju Tallinna Tehnikaülikooli aastaraamat 2006 2007 / lk. 144-147

The analysis of finger photoplethysmographic waveform in healthy volunteers and diabetes patients [Electronic resource]

Pilt, Kristjan; Meigas, Kalju; Temitski, Kristina; Viigimaa, Margus IFMBE proceedings ; Vol. 38 2013 / p. 55-58 : ill [CD-ROM]

The Association of pulse wave velocity with blood pressure and biochemical cardiovascular risk markers in young Tallinn adults

Zemtsovskaja, Galina; **Pilt, Kristjan; Albina, Jelena; Meigas, Kalju; Viigimaa, Margus** Atherosclerosis 2019 / p. e167-e168 <https://doi.org/10.1016/j.atherosclerosis.2019.06.506>

The computer workers' working conditions influencing the health in modern buildings

Tint, Piia; Karai, Deniss; Oha, Kristel; **Koppel, Tarmo; Tuulik-Leisi, Varje-Riin; Tuulik, Viuu; Meigas, Kalju** Intelligent Technologies in Logistics and Mechatronics Systems ITELMS'2013 : proceedings of the 8th international conference 2013 / p. 247-253 : ill

The working conditions of office-workers in modern buildings

Tint, Piia; Karai, Deniss; Oha, Kristel; **Koppel, Tarmo; Tuulik-Leisi, Varje-Riin; Tuulik, Viuu; Meigas, Kalju** Human factors : sustainable life and mobility : October 16-18, 2013, Torino, Italy : programme, abstracts book 2013 / p. [64]

TTÜ eestvedamisel valmib unikaalne kaasaskantav vererõhumõõdja : [väljatöötamisel olevat seadet tutvustavad Kalju Meigas ja Jüri Kaik]

Meigas, Kalju; Kaik, Jüri Äripäev 2003 / 17. juuni, Kliendileht Tehnoloogia, lk. 1

TTÜ Tehnomeedikum. Biomeditsiinitehnika instituut

Hinrikus, Hiie; Meigas, Kalju Leiutajaid ja leiutisi Tallinna Tehnikaülikoolis 1922-2007 2008 / lk. 92-96 : ill https://www.ester.ee/record=b2412718*est

Waveform analysis of peripheral pulse wave detected in the fingertip with photoplethysmograph

Hlimonenko, Irina; **Meigas, Kalju;** Vahisalu, Rein Proceedings of the 4th International Conference Measurement : Smolenice, Slovak Republic, 2003 2003 / p. 234-237

White paper on accreditation of biomedical engineering programs in Europe

Nagel, J.; Kolitsi, Z.; **Meigas, Kalju** 2000

Vocabulary of telecommunication services

Bjorklund, L.; **Meigas, Kalju** 1997

Ülikooli asutused : [TTÜ Geoloogia Instituut ; TTÜ Küberneetika Instituut ; TTÜ Meresüsteemide Instituut ; TTÜ Kuressaare Kolledž ; TTÜ Tartu Kolledž ; TTÜ Tehnomeedikum ; TTÜ Sertifitseerimisasutus]

Soesoo, Alvar; Penjam, Jaan; Elken, Jüri; Keerberg, Anne; Nei, Lembit; Meigas, Kalju; Laur, Toomas Tallinna Tehnikaülikooli aastaraamat 2008 2009 / lk. 314-327

Ülikooli asutused : [TTÜ Geoloogia Instituut ; TTÜ Küberneetika Instituut ; TTÜ Meresüsteemide Instituut ; TTÜ

Kuressaare Kolledž ; TTÜ Tartu Kolledž ; TTÜ Tehnomeedikum ; TTÜ Sertifitseerimisasutus]

Soesoo, Alvar; Penjam, Jaan; Elken, Jüri; Nei, Lembit; Keerberg, Anne; Meigas, Kalju; Laur, Toomas Tallinna Tehnikaülikooli aastaraamat 2007 2008 / lk. 297-310

Ülikooli asutused : [TTÜ Geoloogia Instituut ; TTÜ Küberneetika Instituut ; TTÜ Meresüsteemide Instituut ; TTÜ Säästva Tehnoloogia Instituut ; TTÜ Kuressaare Kolledž ; TTÜ Tehnomeedikum ; TTÜ Sertifitseerimisasutus]

Soesoo, Alvar; Penjam, Jaan; Elken, Jüri; Nei, Lembit; Keerberg, Anne; Meigas, Kalju; Laur, Toomas Tallinna Tehnikaülikooli aastaraamat 2006 2007 / lk. 276-290 https://artiklid.elnet.ee/record=b1021004*est

Измерение вероятности ошибки при передаче данных в системе связи на полупроводниковом лазере

Meigas, Kalju; Uusmaa, P. Исследования по прикладной квантовой электронике 1980 / с. 29-33

Измерение спектра лазерного излучения методом оптического гетеродинамирования

Meigas, Kalju Исследования по прикладной квантовой электронике 1989 / с. 9-17 : илл https://www.ester.ee/record=b1231200*est

Исследование MOM детектора с согласующим усилителем

Meigas, Kalju; Soonurm, T. Труды по радиотехнике. 3 1976 / с. 35-37 https://www.ester.ee/record=b2190765*est

<https://digikogu.taltech.ee/et/Item/051089c8-3240-47a7-84ae-2e65ba92e5fb>

Исследования газового лазера в совмещенном режиме

Zahharov, Boriss; Kink, Toomas; Meigas, Kalju; Hinrikus, Hiie-Agnes Исследования по прикладной квантовой электронике 1989 / с. 3-8 : илл https://www.ester.ee/record=b1231200*est

Когерентное фотодетектирование в газовом лазере

Zahharov, Boriss; Meigas, Kalju; Hinrikus, Hiie Лазерная и оптико-электронная техника : Межвузовский сборник научных трудов 1989 / с. 131-144

Когерентное фотодетектирование газовым лазером

Zahharov, Boriss; Meigas, Kalju; Hinrikus, Hiie Квантовая электроника 1990 / 2, с. 240-244

Когерентное фотодетектирование при совмещенном режиме лазера

Zahharov, Boriss; Meigas, Kalju; Hinrikus, Hiie Тезисы докладов III Всесоюзной конференции "Применение лазеров в технологии и системах передачи и обработки информации", 11-13 ноября 1987 г. 3, Лазерные системы передачи и обработки информации 1987 / с. 17 https://www.ester.ee/record=b1273195*est

Применение совмещенного режима работы лазера для измерения спектра его излучения

Zahharov, Boriss; Meigas, Kalju; Hinrikus, Hiie Тезисы докладов III Всесоюзной конференции "Применение лазеров в технологии и системах передачи и обработки информации", 11-13 ноября 1987 г. 3, Лазерные системы передачи и обработки информации 1987 / с. 18 https://www.ester.ee/record=b1273195*est

Радиотехника

Umborg, Jaak; Hinrikus, Hiie; Meigas, Kalju; Zahharov, Boriss; Taklaja, Andres; Rang, Toomas; Manak, I.S.; Lissenkova, A.M.; Bondarenko, A.N.; Falkova, N.V.; Krusell, Urmas 1987 https://www.ester.ee/record=b1273963*est

Радиотехника

Umborg, Jaak; Zahharov, Boriss; Kink, Toomas; Meigas, Kalju; Hinrikus, Hiie; Kuzjan, O.I.; Veldžanov, I.I.; Zentšenko, S.A.; Malevitš, I.A.; Pranovitš, V.I.; Andrussenko, A.M.; Lukin, I.V.; Sugatšov, O.L.; Tarakanov, B.I.; Krusell, Urmas; Taklaja, Andres; Manak, I.S.; Mihnjuk, S.B.; Vainu, Jaanus 1989 https://www.ester.ee/record=b1231200*est

Труды по радиотехнике

Eiskop, Ilmar; Hinrikus, Hiie; Zahharov, Boriss; Lapimaa, J.; Uusmaa, P.; Meigas, Kalju; Taklaja, Andres; Polma, Ermo; Grigorjev, Jüri 1980 https://www.ester.ee/record=b1264135*est

Шумы фотодетектирования при непрерывном совмещенном режиме работы лазера

Meigas, Kalju; Zahharov, Boriss; Hinrikus, Hiie-Agnes Исследования по прикладной квантовой электронике 1987 / с. 9-14 https://www.ester.ee/record=b1273963*est