

#### **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/ii/?15> [https://www.ester.ee/record=b1733221\\*est](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

#### **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] [https://doi.org/10.1007/978-3-642-34197-7\\_14](https://doi.org/10.1007/978-3-642-34197-7_14) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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

**Viigimäe, Moonika** 2018 <https://digi.lib.ttu.ee/ii/?9342> [https://www.ester.ee/record=b4761002\\*est](https://www.ester.ee/record=b4761002*est)

#### **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 <https://ieeexplore.ieee.org/document/666378>

#### **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](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 EMBEC'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. dets., lk. 9 : portr [https://artiklid.elnet.ee/record=b1508838\\*est](https://artiklid.elnet.ee/record=b1508838*est)

### **Biomeditsiinitehnika - tehnoloogia tervise heaks**

**Hinrikus, Hiie; Bachmann, Maie; Pilt, Kristjan; Meigas, Kalju; Fridolin, Ivo** Teadusmõte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 48-58 : ill [https://www.ester.ee/record=b5208765\\*est](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 EMBEC'02. 1 2002 / p. 636-637

### **Change of arterial pulse wave in patients with hyperlipidaemia**

**Hlimonenko, 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](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 : 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 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 <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

**Determinants and a predictive equation for the aortic length estimation**

**Zemtsovskaja, Galina; Šamarin, Andrei; Abina, Jelena; Meigas, Kalju; Viigimaa, Margus** International journal of innovative research in science, engineering and technology 2016 / p. 3336-3350 : ill [https://www.ijrset.com/upload/2016/march/115\\_Determinants\\_hard\\_foriegn.pdf](https://www.ijrset.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 conorary 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

**The effect of local cold and warm exposure on index finger photoplethysmographic signal waveform**

**Pilt, Kristjan**; **Meigas, Kalju**; **Temitski, Kristina**; **Viigimaa, Margus** 2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2013 / p. 2300-2303 <https://doi.org/10.1109/EMBC.2013.6609997> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Elektrilised meditsiiniseadmed**

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

**Anier, Andres** 2014 [http://www.ester.ee/record=b3050804\\*est](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, Viiu**; **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]

**A healthier chip?**

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

**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 <https://doi.org/10.1016/j.jelectrocard.2017.03.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Instituudi lugu läbi aegade = The story of the Department over the years**

**Hinrikus, Hiie**; **Meigas, Kalju** Tervisetehnoloogiad eile, täna, homme : 30 aastat Tervisetehnoloogiate 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. 5-11, p. 5-11 : ill

#### **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](https://doi.org/10.1007/978-981-10-5122-7_205) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **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 Nordic-Baltic Conference on Biomedical Engineering, June 6-10, 1999, Tallinn, Estonia, p. 144-145

#### **Joint Baltic Biomedical Engineering and Physics Courses**

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

#### **Joint biomedical engineering and medical physics master's curriculum project in Estonia**

**Meigas, Kalju; Kepler, Kalle; Holmar, Jana** World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China 2013 / p. 1691 - 1693 [https://doi.org/10.1007/978-3-642-29305-4\\_444](https://doi.org/10.1007/978-3-642-29305-4_444) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **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** 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>

#### **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

#### **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 [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#_)

**Mikrolaine- ja optiline tehnika : loengumaterjalid biomeditsiinitehnika ja meditsiinifüüsika magistriõppe üliõpilastele**  
2012 [http://www.ester.ee/record=b2860846\\*est](http://www.ester.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

**New photoplethysmographic signal analysis algorithm for arterial stiffness estimation**  
**Pilt, Kristjan; Ferenets, Rain; Meigas, Kalju;** Lindberg, Lars-Göran; **Temitski, Kristina; Viigimaa, Margus** The Scientific World Journal 2013 / art. 169035 <https://doi.org/10.1155/2013/169035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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, Viu** 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 diabeedihaigetel**  
**Pilt, Kristjan** 2014 [https://www.ester.ee/record=b3049979\\*est](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 : [proceedings : CD-ROM] 1998 / [6] p. : 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

**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](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; Kööts, Kristina; Viigimaa, Margus** Proceedings of the Estonian Academy of Sciences 2014 / p. 221-

### **Photoplethysmographic signal waveform index for detection of increased arterial stiffness**

Pilt, Kristjan; **Ferenets, Rain**; Meigas, Kalju; **Temitski, Kristina**; **Viigimaa, Margus** Physiological measurement 2014 / p. 2027-2036 : ill <https://doi.org/10.1088/0967-3334/35/10/2027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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] [https://link.springer.com/chapter/10.1007/978-3-642-23508-5\\_136](https://link.springer.com/chapter/10.1007/978-3-642-23508-5_136)

### **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, Viuu**; **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> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Prevention of physiological and psychological stress at computer-equipped workplaces**

**Tint, Piia**; **Meigas, Kalju**; **Tuulik, Viuu**; **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.eester.ee/record=b1292540\\*est](https://www.eester.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 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 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 <https://doi.org/10.1109/EMBC.2015.7319863> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **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]**

Hlimonenko, 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, Napeles-Italy 2004 / [4] p. : ill. [CD-ROM]

### **QT interval variability index and QT interval duration during different sleep stages in patients with obstructive sleep apnea**

**Viigimäe, Moonika**; **Karai, Deniss**; **Pilt, Kristjan**; Pirm, Peeter; Huhtala, Heini; Polo, Olli; **Meigas, Kalju**; **Kaik, Jüri** Sleep medicine 2017 / p. 160-167 : ill <https://doi.org/10.1016/j.sleep.2017.06.026> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **QT interval variability index and QT interval duration in different sleep stages : analysis of polysomnographic recordings in nonapneic male patients**

**Viigimäe, Moonika**; **Karai, Deniss**; Pirm, Peeter; **Pilt, Kristjan**; **Meigas, Kalju**; **Kaik, Jüri** BioMed Research International 2015 / art. 963028 <https://doi.org/10.1155/2015/963028> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [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

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

**Pilt, Kristjan; Meigas, Kalju; Temitski, Kristina; Viigimaa, Margus** World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China 2012 / p. 410-413 : ill [CD-ROM] [https://link.springer.com/chapter/10.1007/978-3-642-29305-4\\_109](https://link.springer.com/chapter/10.1007/978-3-642-29305-4_109) [https://doi.org/10.1007/978-3-642-29305-4\\_109](https://doi.org/10.1007/978-3-642-29305-4_109) Conference Proceedings at Scopus Article at scopus

**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](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 <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

**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 aortic pulse wave velocity estimation for arterial stiffness assessment**

**Pilt, Kristjan; Kõõts, Kristina; Meigas, Kalju; Šamarin, Andrei; Zemtsovskaja, Galina; Viigimaa, Margus** 6th European Conference of the International Federation for Medical and Biological Engineering, MBEC 2014, 7–11 September 2014, Dubrovnik, Croatia 2015 / p. 294-297 [https://doi.org/10.1007/978-3-319-11128-5\\_73](https://doi.org/10.1007/978-3-319-11128-5_73) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

## **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, Viiu; 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, Viiu; 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 vererõhumõõtja : [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](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 <https://www.measurement.sk/2003/S2/Hlimonenko.pdf>

## **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; Nei, Lembit; Keenberg, 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 Kuressaare Kolledž ; TTÜ Tartu Kolledž ; TTÜ Tehnomeedikum ; TTÜ Sertifitseerimisasutus]**

**Soesoo, Alvar; Penjam, Jaan; Elken, Jüri; Keenberg, 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 Säätva Tehnoloogia Instituut ; TTÜ Kuressaare Kolledž ; TTÜ Tehnomeedikum ; TTÜ Sertifitseerimisasutus]**

**Soesoo, Alvar; Penjam, Jaan; Elken, Jüri; Nei, Lembit; Keenberg, Anne; Meigas, Kalju; Laur, Toomas** Tallinna Tehnikaülikooli aastaraamat 2006 2007 / lk. 276-290 [https://artiklid.elnet.ee/record=b1021004\\*est](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 : илл [https://www.ester.ee/record=b1264135\\*est](https://www.ester.ee/record=b1264135*est) <https://digikogu.taltech.ee/et/Item/f0ea9a48-f3f6-47c5-b32e-0623bc73476a>

## **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](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://www.ester.ee/record=b2190765*est)

**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](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](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](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](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](https://www.ester.ee/record=b1231200*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](https://www.ester.ee/record=b1273963*est)