

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

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

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> https://www.ester.ee/record=b4761002*est

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

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

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

Association between ventricular repolarization and main cardiovascular risk factors

Pšenitšnikov, Igor; Šipilova, Tatjana; Karai, Deniss; Riipulk, Jevgeni; Veski, Kristi; Pilt, Kristjan; Kaik, Jüri Scandinavian cardiovascular journal : SCJ 2011 / p. 33-40 : ill

Blood groups, blood pressure and left ventricular geometry in women

Shipilova, Tatjana; Pšenitšnikov, 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 EMBEC'02. 1 2002 / p. 636-637

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 different ventricular repolarisation phases from ECG for identifying patents with increased risk of sudden cardiac death

Lass, Jaanus; Kaik, Jüri; Karai, Deniss; Hinrikus, Hiie; Vainu, Meelis IV International Workshop on Biosignal Interpretation : BSI2002, Como, Italy, 24th-26th June, 2002 : proceedings 2002 / p. 393-396 : ill

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

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 : 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

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

Eakate terviseentsüklopeedia

Abrahams, Peter 2009 https://www.ester.ee/record=b2514320*est

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

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

Heart rate and QT-interval dispersion eith consideration of left ventricular geometry in a population study of men and women aged 35-59 years

Shipilova, Tatjana; Pšenitšnikov, Igor; **Kaik, Jüri;** Volozh, Olga; Abina, Jelena; Kaik, V.; Solodkaja, E.; Udras, A. Kardiologiya 2005 / p. 55-59 <https://pubmed.ncbi.nlm.nih.gov/16353067/>

Heart rate, blood pressure and left ventricular hypertrophy in middle-aged Tallinn population

Shipilova, Tatjana; Pšenitšnikov, Igor; **Kaik, Jüri;** Kaik, V.; Udras, A.; Abina, Jelena; Solodkaja, E. Proceedings of 3rd Baltic Meeting on Hypertension, 2005 2005 / p. 118-120

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 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](#)

Kliiniline ja preventiivne teadus- ja arendustöö Eesti Kardioloogia Instituudis

Kaik, Jüri Teadusmõte Eestis : arstiteadus 2005 / lk. 77-85

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>

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 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#_

Miks perpetuum mobile tõrgub : [südame rütmihäireid selgitab Jüri Kaik]

Kaik, Jüri; Laanepere, Eha Kodutohter 2006 / 7, lk. 22-25 https://artiklid.elnet.ee/record=b2039250*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

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

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

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

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

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

Sojaproduktid - bioaktiivsed toiduained

Kaik, Jüri Eesti Ekspress 2007 / 22. nov., Terviseekspress, lk. 10 <https://ekspress.delfi.ee/artikkel/69150781/sojaproduktid-bioaktiivsed-toiduained>

Suitsetamine on sama raske sõltuvushaigus kui herooinisõltuvus : [Jüri Kaik'i seisukohti]

Grün-Ots, Ille; **Kaik, Jüri** Eesti Päevaleht 2007 / 4. detsember, Tervis, lk. 2 <https://epl.delfi.ee/artikkel/51111049/suitsetamine-on-sama-raske-soltuvushaigus-kui-herooinisoltuvus>

Süda stressi küüsis : [nõu annab Jüri Kaik]

Kaik, Jüri; Laanepere, Eha Kodutohter 2006 / 10, lk. 22-24 : portr https://artiklid.elnet.ee/record=b2039263*est

Südamearst kogu südamest : küsimustele vastab kardioloog Jüri Kaik

Kaik, Jüri Üks 2008 / aug./september, lk. 64-67 : portr

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>

Tehnikaülikooli kardioloogiakeskus alustas

Kaik, Jüri Tallinna Tehnikaülikooli aastaraamat 2007 2008 / lk. 117-119

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

24-hour heart rate profile in assessment of target organs in women with arterial hypertension

Špilova, Tatjana; Pšenitšnikov, Igor; Karai, Deniss; Ripulk, E.; Kaik, Jüri Kardiologiya 2013 / p. 45-50
<https://pubmed.ncbi.nlm.nih.gov/23548350/> [Journal metrics at Scopus](#) [Article at Scopus](#)

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>