

**An adaptive filtering system for separation of cardiac and respiratory components of bioimpedance signal**  
**Krivošei, Andrei; Min, Mart; Parve, Toomas; Ronk, Ants** 2006 IEEE International Workshop on Medical Measurement and Applications : Beneveto, Italy, April 20-21, 2006 2006 / p. 10-15 <https://ieeexplore.ieee.org/document/1644448>

**Alternatives of measurement of electrical bioimpedance of the body with the aim to determine the cardiac and respiratory activity**

**Metshein, Margus** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 197-200 : ill

**Analysis of instantaneous cardiac EBI signal variability over the heart cycle(s) : non-linear time-scale approach**

**Krivošei, Andrei; Min, Mart; Annus, Paul; Köiv, Hip;** Aabloo, Alvo; Uuetoa, Tiina 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. 940-943 : ill [https://doi.org/10.1007/978-981-10-5122-7\\_235](https://doi.org/10.1007/978-981-10-5122-7_235)

**Assessing hemodynamics from the photoplethysmogram to gain insights into vascular age : a review from VascAgeNet**

Charlton, Peter H.; Paliakaite, Birute; **Pilt, Kristjan**; Bachler, Martin; Zanelli, Serena; Kulin, Daniel; Allen, John; Hallab, Magid; Bianchini, Elisabetta; Mayer, Christopher C. American journal of physiology-heart and circulatory physiology 2022 / p. H493-H522  
<https://doi.org/10.1152/ajpheart.00392.2021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Bio-Impedance Signal Decomposer (BISD) as an adaptive signal model based separator of cardiac and respiratory components**

**Krivošei, Andrei; Kukk, Vello; Birjukov, Andrei** Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kolmanda aastakonverentsi artiklite kogumik : 25.-26. aprill 2008, Voore külalistemaja 2008 / p. 29-32 : ill

**CAP waveform estimation from the measured electrical bioimpedance values : patient's heart rate variability analysis**

**Krivošei, Andrei; Uuetoa, Hasso; Min, Mart; Annus, Paul;** Uuetoa, Tiina; Lamp, Jürgen Conference proceedings : 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : Milan, Italy, August 25-29 2015 2015 / p. 2788-2791 : ill <https://doi.org/10.1109/EMBC.2015.7318970>

**Comparative studies of biological effects of surface water pollution on physiological state of molluscs : experience of caging studies in the Tallinn Bay**

Kholodkevich, Sergei; Kuznetsova, Tatiana; **Lips, Urmas; Kolesova, Natalja**; Sharov, Andrey; Kurakin, Anton 10th Baltic Sea Science Congress : Science and innovation for future of the Baltic and the European regional seas : 15-19 June, 2015, Riga, Latvia : abstract book 2015 / p. 255 [http://www.bssc2015.lv/wp-content/uploads/2015/07/10th\\_BSSC\\_AbstractBook\\_final.pdf](http://www.bssc2015.lv/wp-content/uploads/2015/07/10th_BSSC_AbstractBook_final.pdf)

**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 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

**A device for measuring the electrical bioimpedance with variety of electrode placements for monitoring the breathing and heart rate**

**Metshein, Margus** 2015 26th Irish Signals and Systems Conference (ISSC) : Institute of Technology Carlow, Ireland, June 24-25, 2015 2015 / [4] p. : ill <http://dx.doi.org/10.1109/ISSC.2015.7163748>

**Electrical bioimpedance based monitoring of cardiac and respiratory activity : positioning of capacitive electrodes for wearable human monitoring device**

**Metshein, Margus; Parve, Toomas** International journal of bioelectromagnetism 2015 / p. 64-74 : ill

**50 Hz magnetic field affects heart rate variability - an experimental study**

**Koppel, Tarmo; Vilcane, Inese; Ahonen, Mikko** 2018 EMF-Med 1st World Conference on Biomedical Applications of Electromagnetic Fields (EMF-Med), 10-13 Sept. 2018 2018 / p. 91-92 <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8526072>

**Heart rate variability in relation of autonomic dysfunctions of nervous system**

Vilkis, A.; **Tuulik, Viiu**; Agudin, V.; Altrov, Epp Proceedings of the 13th Triennial Congress of the International Ergonomics Association, June 29-July 4, 1997, Tampere : From Experience to Innovation : IEA'97. Vol. 7 1997 / p. 583

**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

**Intermittency and long-range structurization of heart rate = Südamerütm piakamastaabiline kord ja juhmuutlikkus**  
Säkki, Maksim [https://www.esther.ee/record=b2097469\\*est](https://www.esther.ee/record=b2097469*est)

**Intracardiac electrical bioimpedance as a basis for controlling of pacing rate limits**

Kink, Andres; Salo, Rodney; Min, Mart; Parve, Toomas; Rätsep, Indrek Proceedings of the 28th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : New York, 30.08-3.09.2006 2006 / p. 6308-6311

**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

**Modeling the dynamics of lung tissue with pulsating blood-flow in pulmonary arteries for bioimpedance simulation**

Gordon, Rauno; Annus, Paul International Workshop on Impedance Spectroscopy : IWIS 2013 : abstract book : September 25-27, 2013, Chemnitz University of Technology, Germany 2013 / p. 94-65 : ill

**Modelling and simulation of arterial blood pulsation via bioimpedance = Arteriaalse verepulsatsiooni modelleerimine ja simuleerimine bioimpedantsi kaudu**

Pesti, Ksenija 2021 [https://www.esther.ee/record=b5436843\\*est](https://www.esther.ee/record=b5436843*est) <https://digikogu.taltech.ee/et/item/7fe2bc87-aa1a-4214-9971-fc938313bd28>  
<https://doi.org/10.23658/taltech.34/2021>

**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 measuring of breathing and pulse of a human by the means of electrical bioimpedance**

Metshein, Margus Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication Technologies : December 5-6, 2014, Rakvere 2014 / p. 75-78 : ill

**A novel physical fatigue assessment method utilizing heart rate variability and pulse arrival time towards personalized feedback with wearable sensors**

Allik, Ardo; Pilt, Kristjan; Viigimäe, Moonika; Fridolin, Ivo; Jervan, Gert Sensors 2022 / art. 1680 <https://doi.org/10.3390/s22041680>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Observations concerning the results of capacitive monitoring of breathing and heart rate by the means of electrical bioimpedance**

Metshein, Margus The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [4] p. : ill

**Pilot study for estimating physical fatigue based on heart rate variability and reaction time**

Allik, Ardo; Pilt, Kristjan; Viigimäe, Moonika; Fridolin, Ivo XV Mediterranean Conference on Medical and Biological Engineering and Computing -MEDICON 2019 : proceedings of MEDICON 2019, September 26–28, 2019, Coimbra, Portugal 2020 / p. 193-200  
[https://doi.org/10.1007/978-3-030-31635-8\\_23](https://doi.org/10.1007/978-3-030-31635-8_23) [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Realization and evaluation of the device for measuring the impedance of human body for detecting the respiratory and heart rate**

Metshein, Margus; Parve, Toomas; Annus, Paul; Rist, Marek; Min, Mart Elektronika ir elektrotehnika = Electronics and electrical engineering 2017 / p. 36-42 : ill <http://dx.doi.org/10.5755/01.eie.23.3.18330>

**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

**System for bioimpedance signal simulation from pulsating blood flow in tissues**

Gordon, Rauno; Pesti, Ksenija Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 4 2014 / p. 51-58 : ill

**The effect of static magnetic field on heart rate variability - an experimental study [Electronic resource]**

Koppel, Tarmo; Vilcane, Inese; Carlberg, Michael; Tint, Piia 6th International Conference Biosystems Engineering 2015 : 7-8 May 2015, Tartu, Estonia : book of abstracts 2015 / p. 108. [CD-ROM] [http://bse.emu.ee/BSE2015\\_Book%20of%20ABSTRACTS\\_ISBN.pdf](http://bse.emu.ee/BSE2015_Book%20of%20ABSTRACTS_ISBN.pdf)

**The impact of marathons on the recovery of heart rate and blood pressure in non-professional male marathoners' (≥45 Years)**

Parm, Ülle; Tamm, Anna-Liisa; Laugamets, Andras; Viigimaa, Margus Medicina 2021 / art. 1346, 13 p. : ill  
<https://doi.org/10.3390/medicina57121346> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Towards a wearable device for capacitive monitoring of electrical bioimpedance of human body**  
**Metshein, Margus; Parve, Toomas** The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [2] p. : ill

**Влияние различных физических нагрузок на частоту сердечных сокращений (ЧСС) студенток**  
**Vipper, Riina; Lepik, Ivi; Nurme, Aino; Pajumägi, Hele-Mall; Unger, Helve** Проблемы физического воспитания и спортивной подготовки студенческой молодежи : тез. докл. IX респ. науч.-метод. конф 1983 / с. 34-35 [https://www.esther.ee/record=b3856796\\*est](https://www.esther.ee/record=b3856796*est)

**Динамика частоты сердечных сокращений у студенток подготовительного отделения отделения на занятиях по физичекому воспитанию с различной направленностью**

**Vipper, Riina; Lepik, Ivi; Nurme, Aino; Unger, Helve; Pajumägi, Hele-Mall** III всесоюзная научная конференция "Роль физического воспитания в формировании личности будущего специалиста в свете решений XXVI съезда КПСС", 11-13 мая 1982 г : тезисы докладов 1982 / с. 34-35 [https://www.esther.ee/record=b1282465\\*est](https://www.esther.ee/record=b1282465*est)