

## **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

## **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

## **Arterite jäikus ja kardiovaskulaarne risk**

Pilt, Kristjan; Viigimaa, Margus Lege Artis : ajakiri Eesti arstidele 2020 / lk. 47-50 : ill [https://www.estar.ee/record=b1575283\\*est](https://www.estar.ee/record=b1575283*est)  
<https://www.med24.ee/ajakirjad/legeartis/aprill-2020/arterite-j%C3%A4likus-ja-kardiovaskulaarne-risk>

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

Pikta, Marika; Viigimaa, Margus; Pilt, Kristjan; Kööts, 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>

## **Availability and variations of cardiac activity in the case of measuring the bioimpedance of wrist**

Metshein, Margus; Annus, Paul; Land, Raul; Min, Mart; Aabloo, Alvo 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2018) : proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/I2MTC.2018.8409684>

## **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

## **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](#)

## **Correlation between electrical bioimpedance and pressure waveform in radial artery and in mechanical pulsating pipe system**

Metshein, Margus; Annus, Paul; Land, Raul; Rist, Marek; Min, Mart; Märtens, Olev 2020 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2020), May 25-29, 2020, Dubrovnik, Croatia : proceedings 2020 <https://doi.org/10.1109/I2MTC43012.2020.9128972>

## **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.ijiset.com/upload/2016/march/115\\_Determinants\\_hard\\_foriegn.pdf](https://www.ijiset.com/upload/2016/march/115_Determinants_hard_foriegn.pdf)

## **Electrode placement strategies for the measurement of radial artery bioimpedance : simulations and experiments**

Pesti, Ksenija; Metshein, Margus; Annus, Paul; Köiv, Hip; Min, Mart IEEE transactions on instrumentation and measurement 2021 / 10 p. : ill <https://doi.org/10.1109/TIM.2020.3011784> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Evaluation of two-electrode system configurations for forearm arteries bioimpedance measurement**

Metshein, Margus; Pesti, Ksenija; Lapsa, Didzis; Annus, Paul; Janeliukstis, Rims; Elsts, A.; Märtens, Olev 2024 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) : proceedings 2024 / 6 p <https://doi.org/10.1109/I2MTC60896.2024.10561178>

## **Heart rate and QT-interval dispersion with 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/>

**Investigation of photoplethysmographic signal augmentation index estimation differences between fingers**  
**Pilt, Kristjan; Silluta, Sandra; Kööts, 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

**Modification of pulse wave signals in electrical bioimpedance analyzer for implantable medical devices**  
**Min, Mart; Kink, Andres; Land, Raul; Parve, Toomas; Rätsep, Indrek** Proceedings of the 26. Annual International Conference of the IEEE EMBS : September 1-5, 2004, San Francisco, California, USA 2004 / p. 2263-2266  
<https://pubmed.ncbi.nlm.nih.gov/17272178/>

**Optical method for pulse wave velocity and pulse profile registration**  
**Meigas, Kalju; Hinrikus, Hie; 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)

**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)

**Pulse wave parameters as indicators of the state of the arteries**  
**Hinrikus, Hie; Lass, Jaanus; Karai, Deniss; Tepner, Ingrid** Proceedings of 2nd European Medical & Biological Engineering Conference EMBEC'02. 1 2002 / p. 642-643

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

**Respiration signal extraction from photoplethysmogram using pulse wave amplitude variation**  
**Leier, Mairo; Jervan, Gert**; Stork, Wilhelm 2014 IEEE International Conference on Communications (ICC) : Sydney, Australia, June 10-14, 2014 2014 / p. 3535-3540 : ill

**Scalable open platform for reliable medical sensorics = Laiendatav avatud platvorm usaldusväärsete meditsiiniliste sensorite jaoks**  
Leier, Mairo 2016 [https://www.ester.ee/record=b4575148\\*est](https://www.ester.ee/record=b4575148*est)

**Sensor-location-specific joint acquisition of peripheral artery bioimpedance and photoplethysmogram for wearable applications**  
**Metshein, Margus; Abdullayev, Anar; Gautier, Antoine; Larris, Benoit; Frappe, Antoine; Cardiff, Barry; Annus, Paul; Land, Raul; Märkens, Olev** Sensors 2023 / art. 7111 <https://doi.org/10.3390/s23167111> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Signals in bioimpedance measurement : different waveforms for different tasks**  
**Min, Mart; Pliquett, Uwe; Nacke, T.; Barthel, A.; Annus, Paul; Land, Raul** 13th International Conference on Electrical Bioimpedance and 8th Conference on Electrical Impedance Tomography 2007 : ICEBI2007 : August 29th - September 2nd 2007, Graz, Austria 2007 / p. 181-184  
[https://www.researchgate.net/publication/226357858\\_Signals\\_in\\_bioimpedance\\_measurement\\_Different\\_waveforms\\_for\\_different\\_tasks](https://www.researchgate.net/publication/226357858_Signals_in_bioimpedance_measurement_Different_waveforms_for_different_tasks)

**Stability of the relationship between pulse wave delay and arterial blood pressure**  
**Hinrikus, Hie; Tepner, Ingrid; Lass, Jaanus; Karai, Deniss** 12th Nordic Baltic Conference on Biomedical Engineering and Medical Physics : 12NBC 2002, June 18th-22nd, Reykjavik, Iceland 2002 / p. 22-23

**System for bioimpedance signal simulation from pulsating blood flow in tissues**  
Gordon, Rauno; Pesti, Ksenija International workshop on impedance spectroscopy 2012 / p. 22-23 : ill

**Tehnika elu kvaliteedi parandamiseks - biomeditsiinitehnika**  
**Hinrikus, Hie; Lass, Jaanus; Lipping, Tarmo; Meigas, Kalju; Riipulk, Jevgeni** Teadusmõte Eestis : tehnikateadused 2002 / lk. 31-37 : ill

**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>

**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>