

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.ester.ee/record=b1575283*est
<https://www.med24.ee/ajakirjad/legeartis/aprill-2020/arterite-j%C3%A4ikus-ja-kardiovaskulaarne-risk>

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

Pikta, Marika; Viigimaa, Margus; Pilt, Kristjan; Kõõts, 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; 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.ijirset.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; Kõiv, 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; 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 [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, 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 diabeedihäigetel

Pilt, Kristjan 2014 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

Pulse wave parameters as indicators of the state of the arteries

Hinrikus, Hiie; 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

Sensor-location-specific joint acquisition of peripheral artery bioimpedance and photoplethysmogram for wearable applications

Metshein, Margus; Abdullayev, Anar; Gautier, Antoine; Larras, Benoit; Frappe, Antoine; Cardiff, Barry; **Annus, Paul; Land, Raul; Märten, 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 : ICEBIT2007 : 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

Stability of the relationship between pulse wave delay and arterial blood pressure

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

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 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>

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>