

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> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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/>

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 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 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; Märtens, 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; Pliquet, 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>