

A healthier chip?

Ubar, Raimund-Johannes; Fridolin, Ivo; Meigas, Kalju; Min, Mart Public service review : European Union 2010 / p. 132-133 : ill

A lock-in distortion analyser

Land, Raul; Min, Mart; Männama, Vello; Parve, Toomas 9th International Symposium on Electrical Instruments in Industry, September 8-9, 1997, Glasgow, Scotland : proceedings 1997 / p. 149-152

A method for design of the time optimal third order phase locked loop

Min, Mart 7th proceedings of the European Conference on Circuit Theory and Design. Prague, Czechoslovakia, 2 - 6 Sept. 1985. P. 1 1985 / p. 325-328

A method for estimation of cardiac energy balance

Kink, Andres; Min, Mart; Parve, Toomas Book of abstracts of the 5th Conference of the ESEM : Barcelona, Spain, May 30-June 2, 1999 1999 / p. 489-490

A sampling multichannel bioimpedance analyzer for tissue monitoring

Min, Mart; Land, Raul; Märten, Olev; Parve, Toomas; Ronk, Ants Proc. of the 26. Annual International Conference of the IEEE EMBS : September 1-5, 2004, San Francisco, California, USA 2004 / p. 902-905

A virtual system for simultaneous multi-frequency measurement of electrical bioimpedance

Gordon, Rauno; Land, Raul; Min, Mart; Parve, Toomas; Salo, R.W. International journal of bioelectromagnetism 2005 / 2, Special issue : 2005 conference proceedings : Proceedings of the 5th International Conference on Bioelectromagnetism and 5th Conference on Noninvasive Functional Source Imaging BEMAMPNFSI 2005 : May 12-15, 2005, Minneapolis, Minnesota, USA, p. 243-246

Aasta vilistlane Mart Min: sügised aastatel 1992 ja 2020 on üsna sarnasteks osutunud

Min, Mart Mente et Manu 2020 / lk. 60-61 : portr <https://dea.digar.ee/cgi-bin/dea?a=is&oid=AKmenteetmanu202011&type=staticpdf>

AC measurement converters : analog and digital solutions

Märten, Olev 2000 http://www.ester.ee/record=b1707866*est

Adaptive algorithm for cardiac period normalization in time

Krivošei, Andrei; Uuetoa, Hasso; Min, Mart; Annus, Paul; Uuetoa, Tiina; Lamp, Jürgen Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 66

Adaptive control of frequency and phase in vector analyzer

Min, Mart; Ronk, Ants; Sillamaa, Hanno 5th TC7 Symposium on Intelligent Measurement : Jena, German Democratic Republic, June 10-14, 1986, proceedings 1988 / p. 251-256

Adaptive control of frequency and phase in vector analyzer

Min, Mart; Ronk, Ants; Sillamaa, Hanno Intelligent measurement : 5th International IMEKO Symposium; June, 10 - 14, 1986. vol. 2 1986 / p. 200-202

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 : Benevento, Italy, April 20-21, 2006 2006 / p. 10-15 <https://ieeexplore.ieee.org/document/1644448>

Adaptive frequency control in the phase synchronization measurement system

Min, Mart; Rüstern, Ennu; Ronk, Ants; Sillamaa, Hanno Preprints 11th IFAC World Congress "Automatic Control in the Service of Mankind" : Tallinn, Estonia, USSR, August 13-17, 1990. Vol. 4 1990 / p. 161-167

An adaptively tunable model of the cardiac signal for the bio-impedance signal decomposer (BISD)

Krivošei, Andrei; Kuk, Vello; Min, Mart MeMeA 2008 : IEEE International Workshop on Medical Measurements and Applications : 9-10 May 2008, Ottawa, Ontario, Canada 2008 / p. 49-52

Advantages and limitations of an approach to bioimpedance data acquisition and processing relying on fast low bit rate ADCs

Bilinskis, Ivars; Sudars, K.; Min, Mart; Annus, Paul 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. 245-248 : ill

Ahaa! Ohoo! - innovatsioonist ja muustki : kõne Eesti Vabariigi 91. aastapäeva aktusel 20. veebruaril 2009 TTÜ aulas

Min, Mart Tallinna Tehnikaülikooli aastaraamat 2009 2010 / lk. 237-239

Ahaa! Ohoo! Innovatsioonist ja muustki : [intervjuu Mart Min'iga]

Min, Mart; Ummelas, Mart Mente et Manu 2009 / 6. märts, lk. 2 : portr https://www.ester.ee/record=b1242496*est

An ASIC for multifrequency bioimpedance analysis

Min, Mart; Holmström, Nils; Järverud, Karin; **Land, Raul; Märtens, Olev; Parve, Toomas** Proceedings of the XI International Conference on Electrical Bio-impedance : June 17-21, 2001, Oslo, Norway 2001 / p. 251-254 : ill

An electrical bioimpedance analyzer for implantable medical devices

Min, Mart; Parve, Toomas Proceedings of the 22nd IEEE Instrumentation and Measurement Technologies Conference of the IEEE IMT IMTC 2005 : Ottawa, Ontario, Canada, 17-19 May, 2005. Vol. III 2005 / p. 1823-1828

An extended block-adaptive Fourier analyser for analysis and reproduction of periodic components of band-limited discrete-time signals

Ronk, Ants 2002 http://www.ester.ee/record=b1688702*est

An implantable analyzer of bioimpedance dynamics : mixed signal approach

Min, Mart; Parve, Toomas; Kukk, Vello; Kuhlberg, Aivo IEEE transactions on instrumentation and measurement 2002 / 4, p. 674-678

An implantable analyzer of bio-impedance dynamics : mixed signal approach

Min, Mart; Parve, Toomas; Kukk, Vello; Kuhlberg, Aivo IMTC/2001 : proceedings of the 18th IEEE Instrumentation and Measurement Technology Conference : Rediscovering Measurement in the Age of Informatics : Budapest, Hungary, 21-23 May, 2001. Volume 1 2001 / p. 38-43 : ill

An instrument for electrical bio-impedance based cardiac and respiratory monitoring

Eek, Andres; Härm, Härmo; Min, Mart; Parve, Toomas 10th Nordic-Baltic Conference on Biomedical Engineering. Satellite Symposium on Bioelectromagnetic and Biomechanic Measurements, June 13-15, 1996, Tallinn, Estonia 2011 / p. 29-30: ill

An instrument for measurement of vector parameters of electrical bio-impedance

Min, Mart; Parve, Toomas; Eek, Andres; Martin, Hannes Proceedings of the IX International Conference on Electrical Bio-Impedance in conjunction with the European Community Concerted Action on Impedance Tomography : September 26-30, 1995, Heidelberg/Germany 1995 / p. 40-43

An overview about electronic baby monitors used in sleep medicine [Võrguteavik] : data acquisition methods and electronic sensing principles

Kala, Raul; **Min, Mart** 2021 https://www.ester.ee/record=b5406071*est <https://digikogu.taltech.ee/et/Item/80428984-68a6-4f6c-94d1-f901b1248618>

An overview of the impedance models of the thorax and the origin of the impedance cardiography signal for modelling of the impedance signals

Mughal, Yar M.; Annus, Paul; Min, Mart; Gordon, Rauno 2014 IEEE International Conference on Biomedical Engineering and Sciences : 8th-10th December 2014, Miri-Malaysia : conference proceedings 2014 / p. 526-531 : ill

Analog interface for electrical bio-impedance measurement unit

Min, Mart; Parve, Toomas; Lemendik, Laur BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 199-202: ill

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

Krivošei, Andrei; Min, Mart; Annus, Paul; Kõiv, 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

Application of artificial neural networks to model the interaction between T-cells and B-cells and their equivalent impedance of the linearized model

Giannoukos, Georgios; Min, Mart Journal of computational methods in sciences and engineering 2015 / p. 295-302 <http://dx.doi.org/10.3233/JCM-150544>

Aspects of using chirp excitation for estimation of bioimpedance spectrum

Paavle, Toivo; Min, Mart; Parve, Toomas Fourier transform - signal processing 2012 / p. 237-256 : ill

Assurance of gain stability of spaceborne teleradiometers

Veismann, Uno; **Min, Mart** BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 179-185: ill

At-speed self-testing of high-performance pipe-lined processing architectures [Electronic resource]

Gorev, Maksim; Ubar, Raimund-Johannes; Ellervee, Peeter; Devadze, Sergei; Raik, Jaan; Min, Mart 31st Norchip Conference : Vilnius, Lithuania, 11-12 November 2013 : conference program and papers 2013 / p. 1-6 : ill [USB]

Automatic detection of real and imaginary parts of electrical impedance with single synchronous demodulation channel
Annus, Paul; Priidel, Eiko; Land, Raul; Metshein, Margus; Krivošei, Andrei; Min, Mart; Ratassepp, Madis; Märten, Olev 8th European Medical and Biological Engineering Conference : Proceedings of the EMBEC 2020, November 29 - December 3, 2020 Portorož, Slovenia 2021 / p. 151-157 https://doi.org/10.1007/978-3-030-64610-3_18 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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>

BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia)
Rang, Toomas; Min, Mart; Ubar, Raimund-Johannes 1994

BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings
Rang, Toomas; Min, Mart; Ubar, Raimund-Johannes 1996

A benchmark suite for evaluating the efficiency of test tools
Kruus, Helena; Ubar, Raimund-Johannes; Ellervee, Peeter; Gorev, Maksim; Pesonen, Vadim; Devadze, Sergei; Orasson, Elmet; Brik, Marina; Min, Mart; Annus, Paul; Kruus, Margus; Meigas, Kalju BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 85-88 : ill

Binary signals in impedance spectroscopy
Min, Mart; Ojarand, Jaan; Märten, Olev; Paavle, Toivo; Land, Raul; Annus, Paul; Rist, Marek; Reidla, Marko; Parve, Toomas Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2012 / p. 134-137 : ill

Bioimpedance and spectroscopy
2021 <https://doi.org/10.1016/C2018-0-04440-0>

Bioimpedance based analysis of tissue oedema
Kink, Andres; Min, Mart; Parve, Toomas; Rätsep, Indrek Proceedings of the XII International Conference on Electrical Bioimpedance & the V Conference on Electrical Impedance Tomography : ICEB/EIT 2004 : June 20-24, 2004, Gdansk, Poland. Vol. 1 2004 / p. 29-32

Bioimpedance based control of rate limit in artificial cardiac pacing
Min, Mart; Kink, Andres; Parve, Toomas; Rätsep, Indrek Proceedings of the IASTED International Conference on Biomedical Engineering BioMED 2005 : February 16-18, 2005, Innsbruck, Austria 2005 / p. 679-703

Bioimpedance based fuzzy control of cardiac pacing
Min, Mart; Parve, Toomas Catalog of the exhibition "Information Society Technologies" (IST'98), 30 Nov. - 2 Dec. 1998, Vienna, Austria 1998 / [1] p

Bioimpedance monitoring of tissue transplants
Min, Mart; Annus, Paul; Land, Raul; Paavle, Toivo; Haldre, Eero; Ruus, Rein Proceedings of the 24th IEEE Instrumentation and Measurement Technology Conference IMTC 2007 : Warsaw, Poland, May 1-3, 2007 2007 / [4] p

Bioimpedance monitoring with improved accuracy using three-level stimulus
Paavle, Toivo; Annus, Paul; Kuusik, Alar; Land, Raul; Min, Mart Proceedings of European Conference on Circuit Theory and Design 2007 (ECCTD'07) : Seville, Spain, August 26-30, 2007 2007 / p. 412-415

Bioimpedance sensing - a viable alternative for tonometry in non-invasive assessment of central aortic pressure
Min, Mart; Annus, Paul; Kõiv, Hip; Krivošei, Andrei; Uettoa, Tiina; Lamp, Jürgen 2017 IEEE International Symposium on Medical Measurements and Applications (MeMeA) : May 7-10, 2017, Rochester, MN, USA : proceedings papers 2017 / p. 373-378 : ill <https://doi.org/10.1109/MeMeA.2017.7985905>

Bioimpedance sensors : instrumentation, models, and applications
Naranjo-Hernández, David; Reina-Tosina, Javier; Buendía, Rubén; Min, Mart Journal of Sensors 2019 / art. 5078209 <https://doi.org/10.1155/2019/5078209> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Bioimpedance spectro-tomography system using binary multifrequency excitation [Online resource]
Min, Mart; Lehti-Polojärvi, M.; Hyttinen, Jari; Rist, Marek; Land, Raul; Annus, Paul International journal of bioelectromagnetism Proceedings of the 11th International Conference on Bioelectromagnetism : 23-25 May 2018, Aachen, Germany 2018 / p. 76-79 : ill <http://www.ijbem.org/> <https://publications.rwth-aachen.de/record/723893/files/723893.pdf>

Bioimpedantsi mõõtmisel põhinev südamerütmuri juhtimine : [valdkondliku arutelu ettekanne]

Min, Mart Tallinna Tehnikaülikooli kaheksakümnes aastapäev 2000 / lk. 80-82 : ill

Biomedical electronics

Min, Mart; Parve, Toomas; Salo, Rodney Wiley encyclopedia of biomedical engineering. 1 2006 / p. 500-514

Bioonika taassünd : [vestlus Mart Miniga]

Min, Mart; Piller, Meelis Eesti Ekspress 2002 / 6. juuni, Edison, lk. 8-9 : ill

Broadband excitation for short-time impedance spectroscopy

Min, Mart; Pliquett, Uwe; Nacke, T.; Barthel, A.; **Annus, Paul; Land, Raul** Physiological measurement 2008 / 6, p. S185-S192 : ill

Broadband spectroscopy of a dynamic impedance

Min, Mart; Land, Raul; Paavle, Toivo; Parve, Toomas; Annus, Paul Journal of physics : conference series 2010 / 1, p. 012109

Broadband spectroscopy of dynamic impedances with short chirp pulses

Min, Mart; Land, Raul; Paavle, Toivo; Parve, Toomas; Annus, Paul; Trebbels, Dennis Physiological measurement 2011 / p. 945-958 : ill

Budded baculoviruses as a receptor display system to quantify ligand binding with TIRF microscopy

Laasfeld, Tõnis; **Ehrminger, Robin;** Tahk, Maris-Johanna; Veiksina, Santa; Kõlvart, Karl Rene; **Min, Mart;** Kopanchuk, Sergei; Rinken, Ago Nanoscale 2021 / p. 2436 - 2447 <https://doi.org/10.1039/d0nr06737g> [Journal metrics at Scopus](#) [Article at Scopus journal metrics at WOS](#) [Article at WOS](#)

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>

Cardiac pacemakers : biological aspects, clinical applications and possible complications

2011

Cardiac pacing and monitoring : new methods, modern devices

2019 [/intechopen.73811](#)

Cardiac rhythm management - pacing, ablation, devices

2022 <https://doi.org/10.5772/intechopen.95171>

Cardiac volume related energy consumption

Min, Mart Estonian Science Foundation 2010-2011 2011 / p. 17-18 : phot

CEBE - Centre for Integrated Electronic Systems and Biomedical Engineering

Fridolin, Ivo; Min, Mart; Ubar, Raimund-Johannes The parliament magazine's research review : European research & innovation 2009 / p. 35

Challenges and Applications of Impedance-Based Biosensors in Water Analysis

Kivirand, Kairi; Min, Mart; Rinken, Toonika Biosensors for environmental monitoring 2019 <https://doi.org/10.5772/intechopen.89334>

Characterizing the biofunctionalization of gold surface with total internal reflection fluorescence (TIRF) microscopy

Ehrminger, Robin Benjamin; Kopantšuk, Sergei; **Kivirand, Kairi; Min, Mart** Proceedings of the Estonian Academy of Sciences 2020 / p. 27-34 : ill <https://doi.org/10.3176/proc.2020.1.02> http://www.kirj.ee/33001/?tpl=1061&c_tpl=1064 [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chip design for microfluidic bioimpedance measurement

Giannitsis, Athanasios; Cahill, Brian; **Land, Raul;** Gastrock, Gunter; Pliquett, Uwe; Nacke, T.; **Min, Mart;** Beckmann, Dieter Tagungsband : Technische Systeme für die Lebenswissenschaften : 14. Heiligenstädter Kolloquium : Heiligenstadt (Germany), 22.9-24.9.2008 2008 / p. 423-432

Chirp pulse excitation in the impedance spectroscopy of dynamic subjects - signal modelling in time and frequency domain

Min, Mart; Land, Raul; Annus, Paul; Ojarand, Jaan Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 1 2011 / p. 79-82 <https://www.taylorfrancis.com/chapters/edit/10.1201/b11339-17/chirp-pulse-excitation-impedance-spectroscopy-dynamic-subjects%E2%80%94signal-modelling-time-frequency-domain-min-land-annus-ojarand>

Chirp signals in impedance spectroscopy

Min, Mart; Märten, Olev; Land, Raul Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th

Chirp-based piezo-impedance measurement

Saar, Tõnis; Reidla, Marko; Märtens, Olev; Land, Raul; Min, Mart; Herranen, Henrik Proceedings : WISP'2013, 8th IEEE International Symposium on Intelligent Signal Processing 2013 / [4] p. : ill

Compact multichannel device for differential impedance spectroscopy of microfluidic sensors [Online resource]

Ojarand, Jaan; Ehrminger, Robin Benjamin; Min, Mart; Koel, Ants BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill
<http://doi.org/10.1109/BEC.2018.8600955>

Compact smart home systems : design and verification of cost effective hardware solutions

Kuusik, Alar 2001 http://www.ester.ee/record=b1622134*est

Compact smart home systems : design and verification of cost effective hardware solutions

Kuusik, Alar 2001 http://www.ester.ee/record=b1578112*est

Comparative measurement of cardiac cycle by means of different sensors

Priidel, Eiko; Land, Raul; Sinivee, Veljo; Annus, Paul; Min, Mart 2017 Electronics : proceedings of the 21st International Conference : June 19th-21st, 2017, Palanga, Lithuania 2017 / [5] p. : ill <https://doi.org/10.1109/ELECTRONICS.2017.7995221>

Comparison of excitation signals and methods for a wideband bioimpedance measurement

Ojarand, Jaan; Rist, Marek; Min, Mart I2MTC 2016 : 2016 IEEE International Instrumentation and Measurement Technology Conference : May 23-26, 2016, Taipei International Convention Center, Taipei, Taiwan : proceedings 2016 / p. 1291-1296 : ill
<https://doi.org/10.1109/I2MTC.2016.7520555>

Comparison of rectangular wave excitations in broad band impedance spectroscopy for microfluidic applications

Min, Mart; Giannitsis, Athanasios; **Land, Raul;** Cahill, Brian; Pliquett, Uwe; Nacke, T.; Frense, Dieter; Gastrock, Gunter; Beckmann, Dieter World Congress on Medical Physics and Biomedical Engineering : September 7-12, 2009, Munich, Germany 2009 / p. 85-88
https://link.springer.com/chapter/10.1007/978-3-642-03885-3_24

Comparison of spectrally sparse excitation signals for fast bioimpedance spectroscopy : in the context of cytometry

Ojarand, Jaan; Land, Raul; Min, Mart MeMeA 2012 IEEE International Symposium on Medical Measurements and Applications : proceedings : May 18-19, 2012, Budapest, Hungary 2012 / 5 p. : ill <https://ieeexplore.ieee.org/document/6226631>

Comparison of the carbon nanofiber-/fiber- and silicone-based electrodes for bioimpedance measurements

Kõiv, Hip; Pesti, Ksenija; Min, Mart; Land, Raul; Must, Indrek IEEE transactions on instrumentation and measurement 2020 / p. 1455-1463 <https://doi.org/10.1109/TIM.2019.2962297> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Contactless sensing of the conductivity of aqueous droplets in segmented flow

Cahill, Brian; Land, Raul; Nacke, T.; **Min, Mart;** Beckmann, Dieter Sensors and actuators B : chemical 2011 / p. 286-293 : ill
<https://www.sciencedirect.com/science/article/abs/pii/S0925400511006368>

Controllable limiter of signal amplitudes for bioimpedance measurements

Ojarand, Jaan; Min, Mart 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. 920-923 : ill https://doi.org/10.1007/978-981-10-5122-7_230

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>

Crest factor optimization of the multisine waveform for bioimpedance spectroscopy

Ojarand, Jaan; Min, Mart; Annus, Paul Physiological measurement 2014 / p. 1019-1033 : ill

Current mode signal processing as a challenge for improvement of lock-in measuring instruments

Min, Mart; Parve, Toomas XIV IMEKO World Congress : New Measurements - Challenges and Visions, 1-6 June 1997, Tampere, Finland. Vol. 7 1997 / p. 186-191: ill

Current mode signal processing in lock-in instruments for bioimpedance measurement

Min, Mart; Parve, Toomas Proceedings of the 1st International Conference on Bioelectromagnetism (ICBEM'96, Tampere, Finland, June 9-13, 1996) 1996 / p. 167-168

Current mode signal processing in modern lock-in amplifiers

Min, Mart; Parve, Toomas; Kuusik, Alar 8th International Symposium on New Measurement and Calibration Methods of Electrical Quantities and Instruments : Budapest, September 16-17, 1996 : proceedings [IMEKO TC-4] 1996 / p. 49-52 : ill

Current source considerations for broadband bioimpedance spectroscopy

Annus, Paul; Min, Mart; Rist, Marek; Ojarand, Jaan; Land, Raul Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 2 2012 / p. 63-73

Data acquisition from nonuniform arrays based on sine-wave crossings

Bilinskis, Ivars; Min, Mart; Rybakov, A. 2007 Workshop on Digital Alias-free Signal Processing (WDASP'07) : 17 April 2007, London, UK 2007 / p. 8-13

Decomposition method of an electrical bio-impedance signal into cardiac and respiratory components

Krivošei, Andrei; Kukk, Vello; Min, Mart Physiological measurement 2008 / 6, p. S15-S25 : ill

<https://pubmed.ncbi.nlm.nih.gov/18544800/>

Decomposition of the EBI signal into components using two channel cross-compensating singular spectrum analysis

Krivošei, Andrei; Min, Mart; Annus, Paul; Butsenko, Maksim 2018 IEEE International Symposium on Medical Measurements and Applications (MeMeA 2018) : proceedings : Rome, Italy, June 11-13, 2018 2018 / 5 p. : ill

Delta-sigma data acquisition module with USB-interface

Annus, Paul; Kaulio, V.; **Min, Mart;** Kristins, A. Proceedings of the 46th RTU Scientific Conference : Riga, Latvia, 13-14 October, 2005 2005 / p. 26-29

Department of Electronics

Min, Mart; Parve, Toomas; Laansoo, Ants; Männama, Vello; Velme, Enn; Udal, Andres Research activities / Tallinn Technical University 1993 / p. 79-81 https://www.ester.ee/record=b1053754*est

Derivation of Bioimpedance Model Data Utilizing a Compact Analyzer and Two Capacitive Electrodes : A Forearm Example

Ojarand, Jaan; Priidel, Eiko; Min, Mart IEEE Transactions on Biomedical Circuits and Systems 2022 / p. 891-901

<https://doi.org/10.1109/TBCAS.2022.3206666> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design and application of lock-in instruments

Min, Mart BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 95-104: ill

Design concepts of instruments for vector parameter identification

Min, Mart; Parve, Toomas; Ronk, Ants Enhancing productivity with instrumentation and measurement technologies : record of the IEEE Instrumentation and Measurement Technology Conference : IMTC '91, Atlanta (USA), May 14-16, 1991 1991 / p. 347-352: fig

Design concepts of instruments for vector parameter identification

Min, Mart; Parve, Toomas; Ronk, Ants IEEE transactions on instrumentation and measurement 1992 / 1, p. 50-53: fig

Design concepts of instruments for vector parameter identification

Min, Mart; Parve, Toomas; Ronk, Ants IEEE transactions on instrumentation and measurement 1992 / 1, p. 50-53

Design concepts of lock-in signal converters for measurement of dynamic electrical bioimpedance

Parve, Toomas; Holmström, Nils; **Land, Raul; Min, Mart;** Noren, Kjell Proceedings of the 2nd European Medical & Biological Engineering Conference : EMBEC'02, December 4-8, 2002, Vienna, Austria. 2 2002 / p. 1456-1457

Design of bioimpedance measurement system using direct carrier compensation

Annus, Paul; Lamp, Jürgen; **Min, Mart; Paavle, Toivo** Proceedings of the European Conference on Circuit Theory and Design : ECCTD'05 : Cork, Ireland, Aug. 29 - Sept. 02, 2005. Vol. III 2005 / p. 23-26 <https://ieeexplore.ieee.org/document/1523051>

Detection of changes in tissue state with the aid of electromagnetic interaction = Koe seisundi muutuste detekteerimine elektromagnetilise vastastikmõju abil

Priidel, Eiko 2022 <https://doi.org/10.23658/taltech.51/2022> <https://digikogu.taltech.ee/et/Item/c0a10f6b-6b53-45d9-a031-7e5c409946d2>
https://www.ester.ee/record=b5511742*est

Developing e-learning functionalities on electrical bioimpedance for the biomedical electronics course

Gordon, Rauno; Min, Mart; Parve, Toomas BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 327-330 : ill

Development and analysis of carbon-based dry-contact electrodes for bioimpedance measurements = Süsinikmaterjalil põhinevate kuivkontakt-elektroodide arendus ja analüüs bioimpedantsi mõõtmiseks

Kõiv, Hip 2023 <https://doi.org/10.23658/taltech.1/2023> <https://digikogu.taltech.ee/et/Item/f2775738-652e-4b4e-ba34-7a61fab78867>
https://www.ester.ee/record=b5528441*est

Development of a bio-impedance signal simulator on the basis of the regression based model of the cardiac and respiratory impedance signals

Muhammad, Yar; Le Moullec, Yannick; Annus, Paul; Min, Mart 16th Nordic-Baltic Conference on Biomedical Engineering : 16. NBC & 10. MTD 2014 Joint Conferences, October 14-16, 2014, Gothenburg, Sweden 2015 / p. 92-95 : ill

Development of bioimpedance sensing device for wearable monitoring of the aortic blood pressure curve = Entwicklung eines Bioimpedanz-Messgerätes für die mobile Erfassung des aortalen Blutdruck

Kõiv, Hip; Rist, Marek; Min, Mart Technisches Messen 2018 / p. 366–377 : ill <https://doi.org/10.1515/teme-2017-0113> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of Electrical Impedance Spectroscopy and Total Internal Reflection Microscopy Based Biosensing Assay Systems = Elektrilise impedantsi spektroskoopia ja täieliku sisepeegelduse fluorestsentsmikroskoopia põhinevad biotundlikud süsteemid

Ehrminger, Robin Benjamin 2021 <https://digikogu.taltech.ee/et/Item/5607e7d2-df0b-45b4-98ff-9689389a3b2d>
https://www.ester.ee/record=b5462773*est <https://doi.org/10.23658/taltech.48/2021>

Development of the biomedical electronics course for e-learning

Parve, Toomas; Gordon, Rauno; Min, Mart 14th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics : NBC2008 : 16-20 June 2008, Riga, Latvia 2008 / p. 425-428

Deviation extension in PLL frequency demodulators

Min, Mart; Männama, Vello ECCTD'97 : proceedings of the European Conference on Circuit Theory and Design, Aug. 31-Sept. 3 1997, Budapest, Hungary. Vol. 1 1997 / p. 133-138

Deviation extension problems and nonlinear effects in the phase locked loop frequency demodulators

Min, Mart; Männama, Vello; Paavle, Toivo Proceedings of the Estonian Academy of Sciences. Engineering 2000 / 2, p. 120-134 : ill https://artiklid.elnet.ee/record=b1004042*est

Device and method for monitoring bioimpedance of tissue transplants

Annus, Paul; Haldre, Eero; Kuusik, Alar; Land, Raul; Min, Mart; Paavle, Toivo; Parve, Toomas Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK teise aastakonverentsi artiklite kogumik : 11.-12. mai 2007, Viinistu kunstimuseum 2007 / lk. 140-143 : ill

Difference sampling in bio-impedance measurement

Annus, Paul; Rist, Marek; Reidla, Marko; Min, Mart Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 67

Digital post-processing of the bio-impedance signal

Märtens, Olev; Märtin, Hannes; Min, Mart; Parve, Toomas; Ronk, Ants Proceedings of X International Conference on Electrical Bio-Impedance : ICEBI'98 : 5-9 April 1998, Barcelona 1998 / p. 445-448

Digital simulation of analog phase locked loops

Min, Mart; Paavle, Toivo; Kiive, Rein Automation, simulation & measurement : ASM'91 : 3rd biennial conference, Tallinn, October 7-11, 1991. Section A. Section M / Tallinn Technical University 1992 / p. 135-150: ill

Discrete-level broadband excitation signals : binary/ternary chirps

Paavle, Toivo; Min, Mart Elektronika ir elektrotehnika = Electronics and electrical engineering 2012 / p. 23-26 : ill

A DSP-based EBI, ECG and PPG measurement platform

Abdullayev, Anar; Rist, Marek; Märtens, Olev; Metshein, Margus; Larras, Benoit; Frappe, Antoine; Gautier, Antoine; Min, Mart; John, Deepu; Cardiff, Barry; Krivosei, Andrei; Annus, Paul IEEE transactions on instrumentation and measurement 2023 / art. 2007808, 8 p <https://doi.org/10.1109/TIM.2023.3320771>

A DSP-based impedance measurement device

Abdullayev, Anar; Märtens, Olev; Rist, Marek; Metshein, Margus; Min, Mart; Annus, Paul 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 5 l. <https://doi.org/10.1109/BEC56180.2022.9935588>

Dynamic electrical impedance measurement methods

Giannoukos, Georgios; Min, Mart Engineering Technology, Engineering Education and Engineering Management : 2014 International Conference on Engineering Technology, Engineering Education and Engineering Management (ETEEEM 2014), Guangzhou, China, 15-16 November 2014 2015 / p. 379-383 : ill <http://dx.doi.org/10.1201/b18566-91>

Dynamic reference for evaluation of bioimpedance spectroscopy devices

Rist, Marek; Min, Mart BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 107-110 : ill
http://www.ester.ee/record=b2150914*est

Dynamic volume measurement of right ventricle using impedance spectroscopy and multi electrode intraventricular catheter

Kink, Andres; Rist, Marek; Land, Raul; Kõiv, Hip; Min, Mart International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 26-27 : ill

Eddy current corrosion measurement of steel

Märtens, Olev; Land, Raul; Min, Mart; Rist, Marek; Ferenets, Marju; Käsper, Andres International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 40-41 : ill

Eddy current corrosion measurement of steel

Märtens, Olev; Land, Raul; Min, Mart; Rist, Marek; Ferenets, Marju; Käsper, Andres Impedance spectroscopy : advanced applications : battery research, bioimpedance, system design 2018 / p. 125-134 : ill <https://doi.org/10.1515/9783110558920-012>

Eddy current validation of Euro-coins

Gordon, Rauno; Märtens, Olev; Land, Raul; Min, Mart; Rist, Marek; Gavrijaševa, Alina; Pokatilov, Andrei; Kolyshkin, Andrei Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 3 2012 / p. 47-63 : ill

Editorial

Min, Mart Estonian journal of engineering 2011 / 3, p. 183-184

Editorial

Min, Mart Estonian journal of engineering 2010 / 1, p. 3-4 : ill

Editorial

Min, Mart Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 3-2, p. 243

Education environment for electronics and microsystems

Ajaots, Maido; Min, Mart; Rang, Toomas; Ubar, Raimund-Johannes First European Workshop on Microelectronics Education, Villard de Lans, France, February 5-6, 1996 : proceedings 1996 / p. 39

Education environment for electronics and microsystems

Ajaots, Maido; Min, Mart; Rang, Toomas; Ubar, Raimund-Johannes Microelectronics education : proceedings of the European Workshop, Grenoble, France, 5-6 Feb 1996 1996 / p. 145-148: ill

Eesti kingitus maailma füüsikale : 9. aprillil möödus 237 aastat Thomas Johann Seebecki sünnist Tallinnas : [intervjuu prof. Enn Velmre ja prof. Mart Min'iga]

Velmre, Enn; Min, Mart; Ummelas, Mart Mente et Manu 2007 / 18. apr., lk. 3 : ill https://www.ester.ee/record=b1242496*est

Eesti Nokia sünnib Mustamäel : [vestlus Mart Miniga]

Min, Mart; Rätsep, Artur Mustamäe 1999 / nr. 7, juuni, lk. 3

Eesti teaduse tippkeskus infotehnoloogia teaduskonda

Ubar, Raimund-Johannes; Fridolin, Ivo; Min, Mart Tallinna Tehnikaülikooli aastaraamat 2008 2009 / lk. 19-26

Eesti teadustegevus sai esimese tugeva rahasüsti : [M.Mini ja A.Keevalliku kommentaaridega]

Uusen, Kaire; **Min, Mart; Keevallik, Andres** Postimees 2004 / 13. okt., lk. 9 : fot <https://www.postimees.ee/1439077/eesti-teadustegevus-sai-esimese-tugeva-rahasusti>

Eestlaste loodud südamestimulaator meelitas rikkad jänkid meie meditsiini juurde : [TTÜ elektroonikainstituudi professori Mart Min'i kommentaariga]

Nõu, Kerli; **Min, Mart** Eesti Päevaleht 2005 / 16. nov., Ärileht, lk. 6-7

Efficient excitation signals for the fast impedance spectroscopy

Ojarand, Jaan; Min, Mart Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 144-149 : ill

Electrical bio-impedance based non-invasive method for the central aortic blood pressure waveform estimation

Krivošei, Andrei; Min, Mart; Uuetoa, Hasso; Lamp, Jürgen; Annus, Paul 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. 181-184 : ill

Electrical bio-impedance measurement in a rate-adaptive pacemaker

Eek, Andres; Min, Mart; Parve, Toomas Matavimai = Measurements 1996 / 1/2, p. 21-24: ill

Electrical impedance and cardiac monitoring : technology, potential and applications

Min, Mart; Ollmar, S.; Gersing, Eberhard International journal of bioelectromagnetism 2003 / 1, Advances in Electrocardiology : proceedings of the XXX International Congress of Electrocardiology : ICE2003 : June 11-14, 2003, Helsinki, Finland, p. 53-56

Electrochemical impedance spectroscopy

El-Azazy, Marwa; **Min, Mart; Annus, Paul** Intechopen 2020 <https://www.intechopen.com/books/10054>
<https://doi.org/10.5772/intechopen.92333>

Electrode optimization for bioimpedance based central aortic blood pressure estimation

Metshein, Margus; Kõiv, Hip; Annus, Paul; Min, Mart World Congress on Medical Physics and Biomedical Engineering 2018 : June 3–8, 2018, Prague, Czech Republic (Vol. 2) 2018 / p. 497-501 https://doi.org/10.1007/978-981-10-9038-7_92 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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](#)

Electronics at Tallinn Technical University

Min, Mart Baltic electronics 1995 / 1, p. 6-7

Electronics education at Tallinn Technical University

Min, Mart Proceedings [of the] 15th NORCHIP Conference, Tallinn, 10-11 November 1997 1997 / p. 142-149: ill

Electrowetting as a tool for droplet actuation : electrode design and simulation

Giannitsis, Athanasios; Cahill, Brian; **Land, Raul;** Gastrock, G.; Pliquett, Uwe; Nacke, T.; **Min, Mart;** Beckmann, Dieter Tagungsband : Technische Systeme für die Lebenswissenschaften : 14. Heiligenstädter Kolloquium : Heiligenstadt (Germany), 22.9-24.9.2008 2008 / p. 433-442

Elektrilisel bioimpedantsil põhinev sensor jälgib kopsude ja südame tööd

Mente et Manu 2021 / lk. 30-31 : portr [Mente et Manu 2/2021](#)

Elektroonika kui Eesti innovatsioonisüsteemi infrastruktuur

Min, Mart; Rang, Toomas; Ubar, Raimund-Johannes Eesti teadlaste kongress, 11.-15. augustini 1996. a. Tallinnas : ettekannete kokkuvõtted 1996 / lk. 265 https://www.ester.ee/record=b1052731*est

Elektroonikainstituudi direktor professor Mart Min ei suuda uhkust ja rõõmu varjata : [vestlus]

Min, Mart; Reinde, Urmi Tehnikaülikool 1996 / 25. okt., lk. 1-2: ill https://www.ester.ee/record=b5309277*est

Elektroonikainstituut

Min, Mart Teadustegevus / TTÜ 1993 / lk. 83-86

Elektroonikateadlane dr. Mart Min räägib oma tööst ja Eesti teadusest : [intervjuu]

Min, Mart; Tensuda, Kaire Eesti Elu : [Kanada ajaleht] 2008 / 30. mai, lk. 12 : portr

Elektroonikatööstus ja -haridus Eestis : olukord ja väljavaated : [ettekanne konverentsi "Tallinna Tehnikaülikooli teadus" plenaaristungil]

Min, Mart Tallinna Tehnikaülikooli kaheksakümnes aastapäev 2000 / lk. 45-52

Elektroonikatööstus ja -haridus Eestis : võimalused ja väljavaated : [ettekanne konverentsil "Tallinna Tehnikaülikooli teadus", 18. sept. 1998]

Min, Mart Tallinna Tehnikaülikooli aastaraamat 1998 1999 / lk. 48-52

Elektroonikud ettevõtluses : teadus, arendus, äri

Min, Mart Elektroonika 2000 : VII rahvusvahelise telekommunikatsioonipäeva konverentsi ettekannete materjalid 2000 / lk. 15-18

Elektroonikud ettevõtluses : teadus, arendus, äri : ettekanne VII rahvusvahelise telekommunikatsioonipäeva konverentsi "Elektroonika 2000" avaistungil 19. mail 2000 TTÜ aulas

Min, Mart Tallinna Tehnikaülikooli aastaraamat 2000 2001 / lk. 211-213

Elektroonikud teadusfoorumitel - lööme kaasa ja teeme ise

Min, Mart Tallinna Tehnikaülikooli aastaraamat 2006 2007 / lk. 351-353

Elektroonikutelt inimesele ja ühiskonnale : eilsed mõtted täna teoks, tänased homme

Min, Mart Teadusmõtte Eestis : tehnikateadused 2002 / lk. 83-89 : ill

Eluskudede elektriline bioimpedants : kongressist kongressini ja laiemaltki

Min, Mart Tallinna Tehnikaülikooli aastaraamat 2003 2004 / lk. 297-301 : ill. (Kongressimuljeid)

Energy efficient pulses for deep brain stimulation

Gordon, Rauno; Min, Mart; Land, Raul International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 19-20 : ill

An energy efficient wearable tissue monitor

Annus, A.; Kuusik, Alar; Land, Raul; Haldre, Eero; Min, Mart; Parve, Toomas; Poola, Gustav 13th International Conference on Electrical Bioimpedance and 8th Conference on Electrical Impedance Tomography 2007 : ICEBIT2007 : August 29th - September 2nd 2007, Graz, Austria 2007 / p. 240-243 https://link.springer.com/chapter/10.1007/978-3-540-73841-1_64

Energy-efficient pulses for deep brain stimulation

Gordon, Rauno; Min, Mart; Land, Raul Impedance spectroscopy : advanced applications : battery research, bioimpedance, system design 2018 / p. 153-160 : ill <https://doi.org/10.1515/9783110558920-015>

Enhanced optimization of the wideband excitation signal for a bioimpedance measurement

Ojarand, Jaan; Rist, Marek; Min, Mart 2015 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2015) : May 11-14, 2015, Pisa, Italy : proceedings 2015 / p. 1801-1806 : ill <http://dx.doi.org/10.1109/I2MTC.2015.7151554>

Estimating the transfer function between the CAP and radial EBI cardiac periods : use of PCA for dominating spectral features analysis

Krivošei, Andrei; Uuetoa, Hasso; Min, Mart; Lamp, Jürgen; Annus, Paul; Uuetoa, Tiina The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [4] p. : ill

Estimating the transfer function between the CAP and radial EBI cardiac periods : use of PCA for dominating spectral features analysis

Krivošei, Andrei; Uuetoa, Hasso; Min, Mart; Lamp, Jürgen; Annus, Paul; Uuetoa, Tiina International journal of bioelectromagnetism 2015 / p. 31-35 : ill

Euromündide ehtsusest

Min, Mart Horisont 2010 / 4, lk. 6

Excitation current source for bioimpedance measurement applications : analysis and design

Annus, Paul; Krivošei, Andrei; Min, Mart; Parve, Toomas I2MTC 2008 : IEEE International Instrumentation and Measurement Technology Conference : May 12-15, 2008, Victoria, Canada 2008 / p. 848-853 : ill

Faasisünkroniseerimissüsteemi isehäälestumise tagamine : magistritöö

Ronk, Ants 1992 https://www.ester.ee/record=b2676473*est

Fabrication methods for microfluidic lab-on-chips

Giannitsis, Athanasios; Min, Mart 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. 69-72

Fast impedance spectroscopy of piezosensors for structural health monitoring

Märtens, Olev; Saar, Tõnis; Min, Mart; Land, Raul; Reidla, Marko Elektronika ir elektrotehnika = Electronics and electrical engineering 2010 / 7, p. 31-34 : ill

Fast precise eddy current measurement of metals

Märtens, Olev; Land, Raul; Min, Mart; Rist, Marek; Annus, Paul; Pokatilov, Andrei 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2018) : proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/I2MTC.2018.8409781>

Feasibility of utilizing air gapped toroidal magnetic cores for detecting pulse wave in radial artery

Metshein, Margus; Pesti, Ksenija; Min, Mart; Annus, Paul; Märtens, Olev 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 5 p. : ill <https://doi.org/10.1109/BEC49624.2020.9277197>

Flexible inductive coils for wearable cardiorespiratory activity monitoring [Online resource]

Metshein, Margus; Annus, Paul; Min, Mart BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p. : ill <https://doi.org/10.1109/BEC.2018.8600990>

FPGA-based 16-bit 20 MHz device for the inductive measurement of electrical bio-impedance

Priidel, Eiko; Pesti, Ksenija; Min, Mart; Ojarand, Jaan; Märtens, Olev 2021 IEEE International Instrumentation and Measurement

Frequency-optimized rectangular pulses for deep brain stimulation

Gordon, Rauno; Min, Mart; Land, Raul International journal of bioelectromagnetism 2015 / p. 13-19 : ill

Frequency-optimized rectangular pulses for deep brain stimulation

Gordon, Rauno; Min, Mart; Land, Raul The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [2] p. : ill

From basic foundations to future developments : introductory chapter

Min, Mart Cardiac Pacing and Monitoring : New Methods, Modern Devices 2019 / p. 1-7 <http://dx.doi.org/10.5772/intechopen.85674>

Front-end electronics for impedimetric microfluidic devices

Ojarand, Jaan; Giannitsis, Athanasios; Min, Mart; Land, Raul Bioelectronics, Biomedical, and Bioinspired Systems V; and Nanotechnology V : 18-20 April 2011, Prague, Czech Republic 2011 / p. 80680R-1 - 80680R-15 : ill

Functional self-test of high-performance pipe-lined signal processing architectures

Gorev, Maksim; Ubar, Raimund-Johannes; Ellervee, Peeter; Devadze, Sergei; Raik, Jaan; Min, Mart Microprocessors and microsystems 2015 / p. 909-918 : ill <http://dx.doi.org/10.1016/j.micpro.2014.11.002>

Fundamentals, recent advances, and future challenges in bioimpedance devices for healthcare applications

Naranjo-Hernandez, David; Reina-Tosina, Javier; Min, Mart Journal of sensors 2019 / art. 9210258, 42 p. : ill
<https://doi.org/10.1155/2019/9210258> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Guest editorial

Min, Mart Proceedings of the Estonian Academy of Sciences. Engineering 2004 / 3, p. 155-156

Guest editorial

Min, Mart Proceedings of the Estonian Academy of Sciences. Engineering 2001 / 4, p. 251-252

Hankel matrix based algorithm for cardiac pulse wave base and peak lines Correction

Krivošei, Andrei; Min, Mart; Annus, Paul; Märtens, Olev; Metshein, Margus; Lotamõis, Kristina; Rist, Marek IEEE International Workshop on Medical Measurement and Applications (MEMEA) 2022 / 6 p <https://doi.org/10.1109/MeMeA54994.2022.9856564>

High speed data preprocessing for bioimpedance measurements : architectural exploration

Ellervee, Peeter; Annus, Paul; Min, Mart The 27th NORCHIP Conference : Trondheim, Norway, November 2009 2009 / [4] p
<https://ieeexplore.ieee.org/document/5397838>

High-performance analogue measurement using internal enhanced PWM and ADC of a DSP-chip

Märtens, Olev; Min, Mart; Trampärk, Harri; Liimets, Aivar WISP2007 proceedings : 5th IEEE International Symposium on Intelligent Signal Processing : Alcala de Henares, Madrid (Spain), October 3-5, 2007 2007 / [5] p
<https://ieeexplore.ieee.org/document/4447593>

How did the idea for publishing the journal originate?

Min, Mart; Bekeris, Elmars; Rupkus, Stasys Baltic electronics 1995 / 1, p. 1 https://artiklid.elnet.ee/record=b2856561*est

How many frequencies to use in electrical bioimpedance measurement?

Ojarand, Jaan; Land, Raul; Min, Mart; Rist, Marek International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 24-25 : ill

How many frequencies to use in electrical bioimpedance measurements

Ojarand, Jaan; Land, Raul; Min, Mart; Rist, Marek Impedance spectroscopy : advanced applications : battery research, bioimpedance, system design 2018 / p. 161-168 : ill <http://doi.org/10.1515/9783110558920-016>

Impedance controlled pacemaker (Herzschrittmacher)

Min, Mart Presentation at the VDI/VDE - Gesellschaft Mess- und Automatisierungstechnik Workshop "Impedanzspektrometrie - Prinzipien und Anwendungen" : Universität Kassel, BRD, 2003 2003

Impedance detection

Min, Mart; Parve, Toomas; Pliquett, Uwe Encyclopedia of microfluidics and nanofluidics. 2nd ed 2015 / p. 1338-1361 : ill

Impedance measurement solution based on the high time resolution DSP

Märtens, Olev; Land, Raul; Min, Mart; Annus, Paul; Rist, Marek 2020 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2020), May 25-29, 2020, Dubrovnik, Croatia : proceedings 2020
<https://doi.org/10.1109/I2MTC43012.2020.9128843>

Impedants : elektroonikute ideelaegas ja varakamber aastakümneteks

Min, Mart Teadusmõte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 130-144 : ill., fot
https://www.ester.ee/record=b5208765*est

Improved extraction of information in bioimpedance measurements

Min, Mart; Paavle, Toivo XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 78 : ill

Improved impedance analyzer with binary excitation signals

Märtens, Olev; Land, Raul; Min, Mart; Annus, Paul; Rist, Marek; Reidla, Marko 2015 IEEE 9th International Symposium on Intelligent Signal Processing (WISP 2015) : Siena, Italy, 15-17 May 2015 : [proceedings] 2015 / p. 25-29 : ill

Improvement of lock-in electrical bio-impedance analyzer for implantable medical devices

Min, Mart; Parve, Toomas IEEE transactions on instrumentation and measurement 2007 / 3, p. 968-974

Improvement of lock-in signal converters for application in electrical bio-impedance measurement

Parve, Toomas 2000 http://www.ester.ee/record=b1707856*est

Improvement of switching lock-in signal conversion in bioimpedance analysers

Parve, Toomas; Land, Raul; Min, Mart; Poola, Gustav BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 179-182 : ill

Improvement of the vector analyser based on two-phase switching mode synchronous detection

Min, Mart; Parve, Toomas Measurement 1996 / 2, p. 103-111: ill

Improvements in design of spectra of multisine and binary excitation signals for multi-frequency bioimpedance measurement

Land, Raul; Cahill, Brian; Parve, Toomas; Annus, Paul; Min, Mart 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society : EMBS : Boston, Massachusetts USA, August 30 - September 3, 2011 2011 / p. 4038-4041 : ill

Improving coplanar electrodes for moving water droplets

Giannitsis, Athanasios; Cahill, Brian; Pliquet, Uwe; Gastrock, Gunter; **Land, Raul;** Nacke, T.; **Min, Mart;** Beckmann, Dieter
Proceedings of the 1st European Conference on Microfluidics - Microfluidics 2008 : Bologna, Italy December 10-12, 2008 2008 / [10]
p

Infotehnoloogia teaduskond

Gordon, Boris; Velme, Enn; Einer, Lauri; Tamm, Uljas; Meister, Ants; Korsen, Viljo; Märtens, Olev; Parve, Toomas; Ubar, Raimund-Johannes; Min, Mart Leiutajaid ja leiutisi Tallinna Tehnikaülikoolis 1922-2007 2008 / lk. 34-47 : ill
https://www.ester.ee/record=b2412718*est

Instrumentation phase locked loop

Min, Mart Periodica polytechnica. Electrical engineering 1990 / 3, p. 221-232: fig

Integration of biosensors and associated electronics on lab-on-chip devices

Giannitsis, Athanasios; Parve, Toomas; Min, Mart Elektronika ir elektrotehnika = Electronics and electrical engineering 2011 / p. 61-66 : ill

Intracardiac bio-impedance measurement for cardiac rhythm control

Holmström, Nils; Järverud, Karin; **Min, Mart;** Noren, Kjell; **Parve, Toomas** Medical & biological engineering & computing 1999 / Suppl. 1, Proceedings of the 11th Nordic-Baltic Conference on Biomedical Engineering : NBCBME'99 : June 6-10, 1999, Tallinn, Estonia, p. 163-164: ill

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

Investigation of cost-effective carbon nanofiber/carbon fiber and silicone polymer composite material for wearable bioimpedance device

Kõiv, Hip; Pesti, Ksenija; Min, Mart; Land, Raul 2019 IEEE Sensors Applications Symposium (SAS 2019), Sophia Antipolis, France, 11-13 March, 2019 : proceedings 2019 / 6 p <https://doi.org/10.1109/SAS.2019.8706026>

Jaapani professor esines Tallinna Tehnikaülikoolis : [Tohoku Ülikooli biomeditsiinielektronika labori juhataja Nozomu Hoshimiya]

Min, Mart; Velme, Enn Mente et Manu 2001 / lk. 3 : portr https://www.ester.ee/record=b1242496*est

Jant kodakondsuse ümber jätkub

Min, Mart Õhtuleht 1992 / 28. sept

Jutuajamine professor Mart Miniga : [intervjuu]

Min, Mart A & A 2011 / 2, lk. 5-9

3+2-kõrgharidus : [arvamust avaldavad] Rein Raud, Mart Min [jt.]

Raud, Rein; **Min, Mart** Õpetajate Leht 2010 / lk. 7

Kõrgsageduslik lülitrežiimne sünkroondetektor : magistritöö

Kuusik, Alar 1995 https://www.ester.ee/record=b2680357*est

Kümme aastat uuringuid südame heaks : [intervjuu prof. Mart Min'iga]

Min, Mart; Ummelas, Mart Mente et Manu 2006 / 22. nov., lk. 2 : fot https://www.ester.ee/record=b1242496*est

Lihne leiutis sai Euroopa patendi : [TTÜ professori ja tema kolleegide diagnostikaseade]

Min, Mart Postimees 2009 / 30. okt., lk. 4 <https://leht.postimees.ee/181551/lihtne-leiutis-sai-euroopa-patendi>

Limitation of signal amplitudes in bioimpedance spectroscopy

Ojarand, Jaan; Rist, Marek; Min, Mart Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 68

Lock-in integration for detection of tiny bioimpedance variations [Online resource]

Priidel, Eiko; Annus, Paul; Metshein, Margus; Land, Raul; Märten, Olev; Min, Mart BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p. : ill <https://doi.org/10.1109/BEC.2018.8600965>

Lock-in measurement of bio-impedance variations

Min, Mart; Märten, Olev; Parve, Toomas Measurement 2000 / 1, p. 21-28

Lock-in measurement of the hand-hand bio-impedance

Min, Mart; Haldre, H.; Härm, Härm; Märten, Olev; Märten, Hannes; Parve, Toomas; Ronk, Ants 8th International IMEKO Conference on Measurement in Clinical Medicine Biomedical Measurement and Instrumentation & 12th International Symposium on Biomedical Engineering, Dubrovnik, Croatia, September 16-19, 1998 : proceedings 1998 / p. 2.49-2.52

Low-energy chirps for bioimpedance measurement

Paavle, Toivo; Min, Mart; Trebbels, Dennis 34th International Conference on Telecommunications and Signal Processing (TSP) : Budapest, Hungary, August 18-20, 2011 : [proceedings] 2011 / p. 398-402 : ill

Magnetic induction sensor for the respiration monitoring

Ojarand, Jaan; Pille, Siim; Min, Mart; Land, Raul; Oleitšuk, J. The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [4] p. : ill

Mart Min: Innovatsiooniks on vaja reaalseid samme

Min, Mart; Talviste, Kaire HEI = Hea Eesti Idee 2012 / lk. 16-17 : portr

Matavimai

Žilinskas, R.P.; Min, Mart 1995 https://www.ester.ee/record=b1433508*est

Mathematical and physical modelling of dynamic electrical impedance = Dünaamilise impedantsi matemaatiline ja füüsikaline modelleerimine

Giannoukos, Georgios 2016 <https://digi.lib.ttu.ee/i/?5654>

Mathematical and physical modelling of the dynamic electrical bioimpedance

Giannoukos, Georgios; Min, Mart International journal of circuits, systems and signal processing 2014 / p. 600-606 : ill

Mathematical and physical modelling of the dynamic electrical impedance of a neuron

Giannoukos, Georgios; Min, Mart International journal of circuits, systems and signal processing 2012 / p. 359-366 : ill https://www.researchgate.net/publication/264128963_Mathematical_and_Physical_Modelling_of_the_Dynamic_Electrical_Impedance_of_a_Neuron

Mathematical and physical modelling of the dynamic electrical impedance of a tooth

Giannoukos, Georgios; Min, Mart Proceedings of the International Conference on Numerical Analysis and Applied Mathematics 2014 (ICNAAM-2014) : Rhodes, Greece, 22-28 September 2014 2015 / p. 850002-1 - 850002-4 <http://dx.doi.org/10.1063/1.4913057>

Mathematical and physical modelling of the dynamic fluidic impedance of arteries using electrical impedance equivalents

Giannoukos, Georgios; Min, Mart Mathematical methods in the applied sciences 2013 / p. 1-7 : ill

Mathematical modelling of the dynamic electrical impedance of a parallel RC circuit using a Wien bridge oscillator

Giannoukos, Georgios; Min, Mart Journal of computational methods in sciences and engineering 2015 / p. 287-293
<http://dx.doi.org/10.3233/JCM-150543>

Measurement of intracardiac bioimpedance in rate adaptive pacemakers

Kuusik, Alar; Land, Raul; Min, Mart; Parve, Toomas; Poola, Gustav Proceedings of the 31. International Congress on Electrocardiology : June 27-July 1, 2004, Kyoto, Japan 2004 / [4] p

Measurement of intracardiac bioimpedance in rate adaptive pacemakers

Kuusik, Alar; Land, Raul; Min, Mart; Parve, Toomas; Poola, Gustav Proceedings of the 31st International Congress of Electrocardiology "Advances in Electrocardiology 2004" : 27 June - 1 July, 2004, Singapore 2005 / p. 738-742

Measurement of the electric conductivity of highly conductive metals with 4-electrode impedance method

Gordon, Rauno; Rist, Marek; Märten, Olev; Min, Mart Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 1 2011 / p. 35-40 <https://www.taylorfrancis.com/chapters/edit/10.1201/b11339-8/measurement-electric-conductivity-highly-conductive-metals-4-electrode-impedance-method-gordon-rist-m%C3%A4rtens-min>

Mess Tehnoloogia 2000 - teaduse, tehnika ja rahamaailma kohtumine

Reinde, Urmi; Ruubel, Rein; Min, Mart Tehnikaülikool 2000 / 5. juuni, lk. 1-3 : fot., portr https://artiklid.elnet.ee/record=b1660996*est

Method for synchronous sampling in multifrequency bioimpedance measurements

Min, Mart; Parve, Toomas; Annus, Paul; Paavle, Toivo Proceedings of the 23rd IEEE Instrumentation and Measurement Technology Conference (IMTC/06) : Sorrento, Italy, 24-27 April, 2006 2006 / p. 1699-1703

Method for wideband signal digitizing and their real-time reconstruction in enlarged dynamic range

Biblinkis, I.; Sudars, K.; Min, Mart Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 110-113 : ill

A method of intra-ventricular bioimpedance spectroscopy to estimate the dynamic volume of right ventricle

Kink, Andres; Rist, Marek; Land, Raul; Kõiv, Hip; Min, Mart Impedance spectroscopy : advanced applications : battery research, bioimpedance, system design 2018 / p. 169-176 : ill <https://doi.org/10.1515/9783110558920-017>

Method of synchronous undersampling for complex bioimpedance measurement system

Min, Mart; Paavle, Toivo Proceedings of European Conference on Circuit Theory and Design : ECCTD'03 : September 1-4, 2003, Cracow, Poland 2003 / p. 302-305

Methods for detection of bioimpedance variations in resource constrained environments

Priidel, Eiko; Annus, Paul; Krivošei, Andrei; Rist, Marek; Land, Raul; Min, Mart; Märten, Olev Sensors 2020 / art. 1363, 16 p. : ill <https://doi.org/10.3390/s20051363> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Methods of multi-frequency bioimpedance measurement in implantable and wearable devices

Min, Mart; Parve, Toomas; Poola, Gustav Proceedings of the 3rd European Medical & Biological Engineering Conference EMBEC'05 : November 20-25, 2005, Prague, Czech Republic 2005 / [4] p

Minimization of transient time in the third order phase-locked loop

Min, Mart Circuit theory and design eighty-seven 87 : proceedings of the European Conference on Circuit Theory and Design - ECCTD 87, Paris, France, 1 - 4 Sept. 1987 1987 / p. 835-840

Model based method for adaptive decomposition of the thoracic bio-impedance variations into cardiac and respiratory components = Mudelipõhine meetod torso bioimpedantsi muutuste adaptiivseks dekompositsiooniks südame tegevuse ja hingamise komponentideks

Krivošei, Andrei 2009 https://www.ester.ee/record=b2508758*est

Modeling of the PLL-based bioimpedance measurement system

Paavle, Toivo; Min, Mart BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 183-186 : ill

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

Pesti, Ksenija 2021 https://www.ester.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 cardiac dynamics and intracardiac bioimpedance = Südame dünaamika ja südamesisese bioimpedantsi modelleerimine

Gordon, Rauno 2007 <https://digi.lib.ttu.ee/i/?147>

Modelling of dynamic electrical bioimpedance and measurements safety

Giannoukos, Georgios; Min, Mart AASRI procedia 2014 / p. 12-18 : ill

Modelling, design and test of a bioimpedance measurement system with carrier compensation

Annus, Paul; Lamp, Jürgen; Min, Mart; Paavle, Toivo Proceedings of the 46th RTU Scientific Conference : Riga, Latvia, 13-14 October, 2005 2005 / p. 22-25

Modern methods and devices for cardiac rhythm management : Introductory chapter

Min, Mart; Cismaru, Gabriel Cardiac Rhythm Management - Pacing, Ablation, Devices 2022 <https://doi.org/10.5772/intechopen.104947>

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/>

Modular system for fast impedance spectrum analysis of biomedical objects

Rist, Marek; Reidla, Marko; Märten, Olev; Land, Raul; Min, Mart; Parve, Toomas; Annus, Paul XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 151 : ill

Modular system for spectral analysis of time-variant impedances

Rist, Marek; Reidla, Marko; Land, Raul; Parve, Toomas; Märten, Olev; Annus, Paul; Ojarand, Jaan; Min, Mart 6th European Conference of the International Federation for Medical and Biological Engineering : MBEC 2014, 7-11 September 2014, Dubrovnik, Croatia 2015 / p. 858-861 : ill

Multichannel bioimpedance spectroscopy : instrumentation methods and design principles = Paljukanaliline bioimpedantsspektroskoopia : mõõtemetodid ja disaini printsiibid

Annus, Paul 2009 http://www.ester.ee/record=b2557759*est

Multichannel electrical impedance spectroscopy analyzer with microfluidic sensors

Ojarand, Jaan; Min, Mart; Koel, Ants Sensors 2019 / art. 1891, 28 p. : ill <https://doi.org/10.3390/s19081891> [Journal metrics at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Multi-frequency and multi-channel bio-impedance measurement solution [Electronic resource]

Märten, Olev; Min, Mart; Land, Raul; Annus, Paul Proceedings of 7th Nordic Signal Processing Symposium (NORSIG 2006) : Reykjavik, Iceland, June 7-9, 2006 2006 / [4] p. [CD-ROM] <https://ieeexplore.ieee.org/document/4052217>

Multi-frequency bioimpedance measurement : undersampling approach

Märten, Olev; Min, Mart Proceedings of the 6th Nordic Signal Processing Symposium : NorSig 2004 : June 9-11, 2004, Espoo, Finland 2004 / p. 145-148

Multifrequency vector impedance measurement: undersampled DFT with noise pre-filtering

Märten, Olev; Min, Mart BEC 2006 : 2006 International Baltic Electronics Conference : Tallinn University of Technology, October 2-4, 2006, Tallinn, Estonia : proceedings of the 10th Biennial Baltic Electronics Conference 2006 / p. 217-220 : ill

Multisine and binary multifrequency waveforms in impedance spectrum measurement : a comparative study

Annus, Paul; Min, Mart; Ojarand, Jaan; Paavle, Toivo; Land, Raul; Ellervee, Peeter; Parve, Toomas 5th European Conference of the International Federation for Medical and Biological Engineering : 14-18 September 2011, Budapest, Hungary 2012 / p. 1265-1268 https://link.springer.com/chapter/10.1007/978-3-642-23508-5_327

Multisine dynamic EBI spectrum analyser for in vivo experiments

Min, Mart; Märten, Olev; Parve, Toomas Medical & biological engineering & computing 1999 / Suppl. 2, Proceedings of the European Medical & Biomedical Engineering Conference : EMBE'99 : November 4-7, 1999, Vienna, Austria. Part 1, p. 144-145

Mõõtetehnilised lülitirežiimsed sünkroonmudelid : magistritöö

Parve, Toomas 1992 http://www.ester.ee/record=b2630384*est

New synchronous measurement technique for intracardiac impedance analysis

Kuusik, Alar; Land, Raul; Min, Mart; Parve, Toomas International journal of bioelectromagnetism 2003 / 1, Advances in Electrocardiology : proceedings of the XXX International Congress of Electrocardiology : ICE2003 : June 11-14, 2003, Helsinki, Finland, p. 23-24

Noninvasive acquisition of the aortic blood pressure waveform

Min, Mart; Kõiv, Hip; Priidel, Eiko; Pesti, Ksenija; Annus, Paul Wearable devices 2019 / 16 p. : ill
<https://doi.org/10.5772/intechopen.86065>

Non-invasive method for the aortic blood pressure waveform estimation using the measured radial EBI

Krivošei, Andrei; Lamp, Jürgen; Min, Mart; Uuetoa, Tiina; Uuetoa, Hasso; Annus, Paul XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 121 : ill

Nonlinear chirp pulse excitation for the fast impedance spectroscopy

Ojarand, Jaan; Annus, Paul; Land, Raul; Parve, Toomas; Min, Mart Elektronika ir elektrotehnika = Electronics and electrical engineering 2010 / 4, p. 73-76 : ill

Nonuniform sampling and demodulation for wideband multi-frequency bioimpedance measurements

Min, Mart; Bilinskis, Ivars; Artyukh, Y.; Annus, Paul; Land, Raul; Märten, Olev Proceedings of the "2007 Workshop on digital Alias-free Signal Processing" (WDASP'07) : 17 April 2007, London, UK 2007 / [7] p

Notes on applicability of the impedance spectroscopy for characterization of materials and substances

Annus, Paul; Land, Raul; Min, Mart; Reidla, Marko; Rist, Marek I2MTC 2016 : 2016 IEEE International Instrumentation and Measurement Technology Conference : May 23-26, 2016, Taipei International Convention Center, Taipei, Taiwan : proceedings 2016 / p. 1052-1057 : ill <https://doi.org/10.1109/I2MTC.2016.7520513>

Notes on signals for simultaneous multipoint impedance spectroscopy

Priidel, Eiko; Min, Mart; Annus, Paul International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 6-7 : ill

On deviation restrictions in PLL frequency demodulators

Min, Mart; Männama, Vello; Paavle, Toivo BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 93-96: ill

On the selection of excitation signals for the fast spectroscopy of electrical bioimpedance

Ojarand, Jaan; Min, Mart Journal of electrical bioimpedance 2018 / p. 133-141 : ill <https://doi.org/10.2478/joeb-2018-0018> [Journal metrics at Scopus](#) [Article at Scopus](#)

On-Desk Model-Based Study for Evaluating the Effect of Squeezing the Arteries in the Forearm on the Bioimpedance and Pressure of Blood

Metshein, Margus; Annus, Paul; Land, Raul; Rist, Marek; Min, Mart; Lotamõis, Kristina; Märten, Olev Journal of sensors 2023 / art. 5710835 <https://doi.org/10.1155/2023/5710835>

One bio-medical multisine measurement task: solution principles

Ronk, Ants; Min, Mart BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 199-200 : ill

Online tissue discrimination for transcutaneous needle guidance applications using broadband impedance spectroscopy

Trebbels, Dennis; Min, Mart IEEE transactions on biomedical engineering 2012 / p. 494-503 : ill https://www.researchgate.net/publication/51798891_Online_Tissue_Discrimination_for_Transcutaneous_Needle_Guidance_Applications_Using_Broadband_Impedance_Spectroscopy

Optimisation of multisine waveform for bio-impedance spectroscopy

Ojarand, Jaan; Annus, Paul; Min, Mart XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 79 : ill

Optimization of multisine excitation for a bioimpedance measurement device

Ojarand, Jaan; Annus, Paul; Min, Mart; Gorev, Maksim; Ellervee, Peeter I2MTC 2014 IEEE International Instrumentation and Measurement Technology Conference : Instrumentation and Measurement for Sustainable Development : Radisson Montevideo Victoria Plaza Hotel & Conference Center, May 12-15, 2014, Montevideo, Uruguay : proceedings 2014 / p. 829-832 : ill

Optimized waveforms for synchronous signal processing

Annus, Paul; Min, Mart; Ojarand, Jaan Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kolmanda aastakonverentsi artiklite kogumik : 25.-26. aprill 2008, Voore külalistemaja 2008 / p. 51-54 : ill

Our Journal is entering into its second decade

Min, Mart Journal of electrical bioimpedance 2019 / p. 1 <https://doi.org/10.2478/joeb-2019-0001> [Journal metrics at Scopus](#) [Article at Scopus](#)

PC-based vector analyzer

Min, Mart; Parve, Toomas 7th International Symposium on Modern Electrical and Magnetic Measurement : Prague (Czech Republic), September 13-14, 1995. Part 1 1995 / p. 28-32: ill

PC-card vector analyser

Härm, Härmo; Haldre, Eero; Min, Mart; Parve, Toomas Baltic electronics 1995 / 2, p. 31-32: ill

Phase-increment sampling in chirp signal based impedance measurements

Märtens, Olev; Min, Mart; Land, Raul; Ojarand, Jaan; Rist, Marek Sampling Theory and Applications 2017 : 12th International Conference : Tallinn, Estonia, July 3-7 : program and abstracts 2017 / p. 65

Phase-increment sampling in chirp signal based impedance measurements [Electronic resource]

Märtens, Olev; Min, Mart; Land, Raul; Ojarand, Jaan; Rist, Marek 2017 International Conference on Sampling Theory and Applications (SampTA) : 12th International Conference : Tallinn, Estonia, July 3-7 : [abstracts] 2017 / p. 66. [USB]

Phase-increment sampling in chirp signal based impedance measurements [Online resource]

Märtens, Olev; Min, Mart; Land, Raul; Ojarand, Jaan; Rist, Marek 2017 International Conference on Sampling Theory and Applications (SampTA) : 12th International Conference : Tallinn, Estonia, July 3-7 : [proceedings] 2017 / p. 604-608 : ill
<https://doi.org/10.1109/SAMPTA.2017.8024393>

Phase-locked signal processing in vector analyzer

Min, Mart; Parve, Toomas Signal processing in measurement proceedings : 6th Symposium of the Technical Committee on Measurement Theory (TC7), Budapest Hungary June 10-12, 1987 1987 / p. 143-147

Phase-locked signal processing in measurement

Min, Mart; Parve, Toomas Signal processing in measurement : 6th Symposium of the Technical Committee on Measurement Theory (TC7) : Budapest, Hungary, June 10-12, 1987 : proceedings 1988 / p. 97-101

PLL frequency demodulator with extended deviation

Min, Mart; Männama, Vello BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 109-112: ill

PLL-based extraction of the cardiac component from the bio-impedance signal

Märtens, Olev; Min, Mart; Annus, Paul; Land, Raul; Krivošei, Andrei; Metshein, Margus 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2018) : proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/I2MTC.2018.8409848>

PLL-based measurement of bioimpedance using undersampling

Min, Mart; Paavle, Toivo Proceedings of the XII International Conference on Electrical Bioimpedance & the V Conference on Electrical Impedance Tomography : ICEB/EIT 2004 : June 20-24, 2004, Gdansk, Poland. Vol. 2 2004 / p. 347-350

Precise eddy current impedance measurement of metal plates

Märtens, Olev; Gordon, Rauno; Rist, Marek; Min, Mart; Pokatilov, Andrei; Kolyshkins, A. Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 1 2011 / p. 43-45

Precise eddy current measurements : improving accuracy of determining of electrical conductivity of metal plates

Märtens, Olev; Land, Raul; Gordon, Rauno; Min, Mart; Rist, Marek; Pokatilov, Andrei Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 4 2014 / p. 109-115 : ill

Principles for the design of impedance spectroscopy devices for identification of dynamic bio-systems = Dünaamiliste biosüsteemide impedantspektroskoopia seadmete disaini printsiibid

Rist, Marek 2018 <https://digi.lib.ttu.ee/i/?9260>

Prof Mart Min : tehnoloogia teeb tervemaks ja rikkamaks

Min, Mart Director. Inseneria 2019 / lk. 18-24 : fot http://www.ester.ee/record=b2336521*est

Pseudorandom sampling in a multi-frequency bioimpedance analyser

Märtens, Olev; Min, Mart BEC 2002 : proceedings of the 8th Biennial Baltic Electronics Conference : October 6-9, 2002, Tallinn, Estonia 2002 / p. 253-256 : ill

"Puhas" teadus ei saa läbi ilma "tahmava" praktikata : [intervjuu TTÜ aasta teadlase Mart Miniga]

Min, Mart; Feldmann, Mati Inseneria 2009 / 10(11), lk. 18-20 : ill https://artiklid.elnet.ee/record=b1206899*est

PWM based lock-in bioimpedance measurement unit for implantable medical devices

Kuhlberg, Aivo; Land, Raul; Min, Mart; Parve, Toomas Proceedings of the XVII IMEKO World Congress : June 22-27, 2003, Dubrovnik, Croatia 2003 / p. 1710-1713 : ill

Pöördumine Haridus- ja Teadusministri ning Riigikogu kultuurikomisjoni esimehe poole : [doktorikoolide probleemist]

Arro, Ilmar; Kaljurand, Mihkel; Kallavus, Urve; Kübarsepp, Jakob; Lille, Ülo; Lopp, Margus; Mellikov, Enn; Min, Mart; Rang, Toomas; Rüstern, Ennu; Taklaja, Andres; Tamm, Toomas; Tammet, Tanel; Tepandi, Jaak; Ubar, Raimund-Johannes; Öpik,

Andres Mente et Manu 2005 / 18. mai. lk. 1 https://www.ester.ee/record=b1242496*est

Pöördumine Haridus- ja Teadusministri ning Riigikogu kultuurikomisjoni esimehe poole : [doktorikoolide probleemist]
Arro, Ilmar; Kaljurand, Mihkel; Kallavus, Urve; Kübarsepp, Jakob; Lille, Ülo; Lopp, Margus; Mellikov, Enn; Min, Mart; Rang, Toomas; Rüstern, Ennu; Taklaja, Andres; Tamm, Toomas; Tammet, Tanel; Tepandi, Jaak; Ubar, Raimund-Johannes; Öpik, Andres Tallinna Tehnikaülikooli aastaraamat 2005 2006 / lk. 430-431

QUADRA impedance spectroscopy devices for dynamic measurements of bio-objects

Rist, Marek; Reidla, Marko; Märten, Olev; Min, Mart; Annus, Paul; Land, Raul; Parve, Toomas 34th Annual International IEEE EMBS Conference : August 28 - September 1, 2012, Hilton Bayfront Hotel in San Diego, California, USA : abstracts 2012 / p. 557 : ill

Quantization of the response signal differences for the electrical bioimpedance measurement

Annus, Paul; Land, Raul; Priidel, Eiko; Metshein, Margus; Min, Mart; Märten, Olev 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. 290-293 : ill https://doi.org/10.1007/978-981-10-5122-7_73

Rate adaptive pacemaker

Min, Mart; Parve, Toomas Nexus research news (Nexus academic newsletter) 1998 / 1, p. 4-6

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/j01.eie.23.3.18330>

Reconfigurable data acquisition unit for bioimpedance measurements

Pesonen, Vadim; Gorev, Maksim; Annus, Paul; Min, Mart; Ellervee, Peeter 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. 257-260 : ill

Rectangular wave excitation in wideband bioimpedance spectroscopy

Min, Mart; Paavle, Toivo; Annus, Paul; Land, Raul IEEE International Workshop on Medical Measurements and Applications : MeMeA2009 : Cetraro, Italy, May 29-30, 2009 2009 / p. 268-271

Relative complex permittivity and its dependence on frequency

Giannoukos, Georgios; Min, Mart; Rang, Toomas World journal of engineering 2017 / p. 532-537 : ill <https://doi.org/10.1108/WJE-01-2017-0007>

Reprogrammable data acquisition unit to reduce aliasing effect in bioimpedance measurements

Pesonen, Vadim; Gorev, Maksim; Annus, Paul; Min, Mart; Ellervee, Peeter The 7th Annual FPGA World Conference, Copenhagen, Denmark, 6 September 2010 2010 / [6] p.: ill

Rectangular-wave chirps for broadband measurement : spectra and energy

Paavle, Toivo; Min, Mart BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 195-198 : ill

Reversible electrowetting on silanized silicon nitride

Cahill, Brian; Giannitsis, Athanasios; Land, Raul; Gastrock, Gunter; Pliquett, Uwe; Frense, Dieter; Min, Mart; Beckmann, Dieter Sensors and actuators B. Chemical 2010 / p. 380-386 : ill

Robust algorithm for the augmentation index estimation of the CAP using low order derivatives [Electronic resource]

Krivošei, Andrei; Min, Mart; Lamp, Jürgen; Annus, Paul MeMeA 2014 : IEEE International Symposium on Medical Measurements and Applications : June 11-12, 2014, ISCTE, University of Lisbon, Lisbon, Portugal : proceedings 2014 / p. 279-282 : ill. [CD-ROM]

Rohde & Schwarz taas Eestis ning Tallinna Tehnikaülikoolis

Min, Mart Tallinna Ülikoolid 1995 / 25. okt., lk. 3

Sampling vector analyzer

Min, Mart; Parve, Toomas SampTA'95 : 1995 Workshop on Sampling Theory & Applications, Jurmala, Latvia, September, 1995 1995 / p. 208-211

Scalable impedance spectroscopy : comparative study of sinusoidal and rectangular chirp excitations

Min, Mart; Parve, Toomas; Land, Raul; Annus, Paul Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 2 2012 / p. 33-38

Sensing of physiological dynamic processes using measurement of electrical bioimpedance

Gordon, Rauno; Kuhlberg, Aivo; Min, Mart; Parve, Toomas Датчики и системы : сборник докладов международной конференции. Том 1 = International Conference Sensors & Systems : proceedings. Volume 1 2002 / p. 118-122 : ill

Settling time minimization in PLL frequency synthesizers

Min, Mart; Männama, Vello; Paavle, Toivo ICCSC'02 : 1st IEEE International Conference on Circuits and Systems for Communications, 26-28 June, 2002, St.Petersburg, Russia : proceedings 2002 / p. 366-369 : ill

Shortened square wave waveforms in synchronous signal processing

Annus, Paul; Min, Mart; Ojarand, Jaan I2MTC 2008 : IEEE International Instrumentation and Measurement Technology Conference : May 12-15, 2008, Victoria, Canada 2008 / p. 1259-1262 : ill

Short-time chirp excitations for using in wideband characterization of objects: an overview

Paavle, Toivo; Min, Mart; Ojarand, Jaan; Parve, Toomas 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. 253-256 : ill

Signaalid impedants-spektroskoopias : originaalsed meetodid, uudsed rakendused : kommentaar Eesti Vabariigi teaduse aastapreemia pälvinud tööde tsüklile

Min, Mart Tallinna Tehnikaülikooli aastaraamat 2011 2012 / lk. 215-225

Signal distortion and waveform conversion in a classical PLL

Min, Mart; Männama, Vello; Paavle, Toivo Proceedings of the European Conference on Circuit Theory and Design ECCTD'99 : August 29-September 2, 1999, Stresa, Italy 1999 / p. 127-130

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 : 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

Signal-shape locked loop (SSLL) as an adaptive separator of cardiac and respiratory components of bio-impedance signal

Krivošei, Andrei; Min, Mart; Kuk, Vello IEEE International Workshop on Medical Measurement and Applications : MeMeA-2007 : Warsaw, Poland, 4-5 May 2007 2007 / p. 47-52 <https://ieeexplore.ieee.org/document/4285161>

Simple acoustical signature based coin validation

Märtens, Olev; Gavrijaševa, Alina; Land, Raul; Min, Mart 2015 IEEE 9th International Symposium on Intelligent Signal Processing (WISP 2015) : Siena, Italy, 15-17 May 2015 : [proceedings] 2015 / p. 120-123 : ill

Simple and efficient excitation signals for fast impedance spectroscopy

Ojarand, Jaan; Min, Mart Elektronika ir elektrotehnika = Electronics and electrical engineering 2013 / p. 49-52 : ill

Simple signals for system identification

Annus, Paul; Land, Raul; Min, Mart; Ojarand, Jaan Fourier transform - signal processing 2012 / p. 257-276 : ill

Simplified signal processing for impedance spectroscopy with spectrally sparse sequences

Annus, Paul; Land, Raul; Reidla, Marko; Ojarand, Jaan; Mughal, Yar M.; Min, Mart XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 76

Simulation of the frequency and phase acquisition processes in the adaptive phase locked loop

Min, Mart Internationales wissenschaftliches Kolloquium : WK : 22-25.10.1990. Automatisierte Messsysteme 1990 / p. 259-262: fig

Simulation of the sensitivity distribution of four-electrode impedance sensing on radial artery

Pesti, Ksenija; Kõiv, Hip; Min, Mart 2019 IEEE Sensors Applications Symposium (SAS 2019), Sophia Antipolis, France, 11-13 March, 2019 : proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/SAS.2019.8705976>

Simultaneous multi-frequency bioimpedance measurement applying synchronised uniform or non-uniform sampling

Ronk, Ants; Min, Mart; Parve, Toomas 13th International Conference on Electrical Bioimpedance and 8th Conference on Electrical Impedance Tomography 2007 : ICEBI2007 : August 29th - September 2nd 2007, Graz, Austria 2007 / p. 185-189

Smart sensor systems using impedance spectroscopy

Tränkler, Hans-Rolf; Kanoun, Olfa; **Min, Mart; Rist, Marek** Proceedings of the Estonian Academy of Sciences. Engineering 2007 / 4, p. 455-478 : ill

Some errors during impedance measurement

Annus, Paul; Land, Raul; Min, Mart Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 90

Some observations on impedance and Ferranti effect

Land, Raul; Min, Mart; Annus, Paul The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [2] p. : ill

Spectral properties of the phase-locked harmonic analyzer

Min, Mart; Land, Raul XXIII General Assembly URSI : abstracts, Prague, 28. Aug.- 05. Sept., 1990. Vol. 2 1990 / p. 334

Switched capacitor technique in implantable lock-in bioimpedance analyzers

Kuhlberg, Aivo; Kukk, Vello; Min, Mart; Parve, Toomas Scientific proceedings of Riga Technical University. 7. serija, Telecommunications and electronics 2001 / p. 59-64 : ill

Switched-capacitor technique in implantable lock-in bioimpedance analyzers

Min, Mart; Parve, Toomas; Kukk, Vello; Kuhlberg, Aivo 42-nd Riga Technical University Conference : RTUC'2001 : Section on Electronics and Telecommunications : Riga, Latvia, Oct. 11-13, 2001 : conference proceedings 2001 / p. 59-64

Südame südames

Min, Mart Sirp 2016 / lk. 35-36 : portr <http://www.sirp.ee/s1-artiklid/c21-teadus/sudame-sudames/>

Südame täitumismahuga seostuv energiatarve : projekt ETF212 "Südame täitumismahuga seostuv energiatarve", 2007-2009

Min, Mart Eesti Teadusfondi aastaraamat 2010-2011 2011 / lk. 17-18 : fot

Sünkroonmuundustehnika faasitundliku spektraalanalüüsi vahendina : magistritöö

Land, Raul 1992 https://www.ester.ee/record=b2630379*est

Synchronous approximation and processing of sampled data signals

Land, Raul 2002 https://www.ester.ee/record=b1688698*est

Synchronous sampling and demodulation in an instrument for multifrequency bioimpedance measurement

Min, Mart; Parve, Toomas; Ronk, Ants; Annus, Paul; Paavle, Toivo IEEE transactions on instrumentation and measurement 2007 / 4, p. 1365-1372 : ill <https://ieeexplore.ieee.org/document/4277035>

System level modeling of phase locked loops : behavioral analysis and parameterization

Paavle, Toivo 2003 https://www.ester.ee/record=b1809261*est

Teadlane, kes sunnib haiged südamed õiges rütmis tuksuma : [TTÜ teadlase Mart Min'i leiutisest ja autasustamisest Valgetähe III klassi teenetemärgiga]

Min, Mart; Lõhmus, Alo Postimees 2008 / 7. veebr., lk. 14

Teadus on liigestest lahti

Min, Mart Sirp 2019 / lk. 26-27 : ill <https://sirp.ee/s1-artiklid/c21-teadus/teadus-on-liigestest-lahti/> https://www.ester.ee/record=b1072938*est <https://novaator.err.ee/908974/mart-min-eesti-teadus-on-liigestest-lahti>

Teaduselt ühiskonnale : mis on spektroskoopia : vastab professor Mart Min

Min, Mart KesKus 2013 / lk. 44 : ill

Teaduspreemia tehnikateaduste alal teadustöö "Signaalid impedantsspektroskoopias : originaalsed meetodid, uudsed rakendused" eest : Mart Min

Min, Mart Eesti Vabariigi teaduspreemiad 2011 2011 / lk. 80-91 : portr., ill

Tehnikaülikool võitis EL hanke eurode tuvastamiseks : [intervjuu TTÜ elektroonikainstituudi direktori Toomas Rangiga ja professor Mart Min'iga]

Rang, Toomas; Ummelas, Mart; Min, Mart Mente et Manu 2008 / 30. jaan., lk. 3 https://artiklid.elnet.ee/record=b1118469*est

Tervisekassa podcast : Kuidas liikumine aitab värske püsida? - Doris Vahtrik ja Mart Min

Min, Mart; Vahtrik, Doris postimees.ee 2023 [Tervisekassa podcast : Kuidas liikumine aitab värske püsida? - Doris Vahtrik ja Mart Min](https://postimees.ee/2023/05/10/tervisekassa-podcast-kuidas-liikumine-aitab-vaerske-pusida-doris-vahtrik-ja-mart-min/)

Thoracic bioimpedance as a basis for pacing control

Min, Mart; Parve, Toomas; Kink, Andres Electrical bioimpedance methods : applications to medicine and biotechnology 1999 / p. 155-166 (invited): ill

Thoracic bio-impedance as a basis for pacing control

Min, Mart; Parve, Toomas; Märtin, Hannes; Kuhlberg, Aivo Proceedings of X International Conference on Electrical Bio-Impedance : ICEBI98 : 5-9 April 1998, Barcelona 1998 / p. 493-496

Time optimal design of the precision third order tracking systems

Min, Mart Automation, simulation & measurement : ASM'91 : 3rd biennial conference, Tallinn, October 7-11, 1991. Section A. Section M / Tallinn Technical University 1992 / p. 128-134: ill

Time-domain manipulating of short-time chirps

Paavle, Toivo; Min, Mart 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. 129-132 : ill

Time-frequency analysis of biological matter using short-time chirp excitation

Min, Mart; Paavle, Toivo; Ojarand, Jaan 2011 20th European Conference on Circuit Theory and Design (ECCTD) : Linköping, Sweden, August 29-31, 2011 : proceedings 2011 / p. 298-301 : ill

Time-frequency impedance spectroscopy : excitation considerations

Land, Raul; Annus, Paul; Min, Mart Proceedings of the 15th IMEKO TC4 International Symposium on Novelties in Electrical Measurements and Instrumentations : Iasi, Romania, September 18-22, 2007. 1 2007 / p. 328-331

TMS320F2811-based multi-frequency multi-channel bio-impedance measurement device

Märtens, Olev; Min, Mart; Land, Raul; Liimets, Aivar; Trappärk, Harri; Annus, Paul EDERS 2008 : 3rd European DES Education & Research Symposium : proceedings : Tel Aviv, Israel, 18th June 2008 / p. 179-183. [CD-ROM]

TMS320F28069-based impedance spectroscopy with binary excitation

Rist, Marek; Reidla, Marko; Min, Mart; Parve, Toomas; Märtens, Olev; Land, Raul EDERC 2012 : proceedings of the 5th European DSP in Education & Research Conference : 13-14 September 2012, Amsterdam, The Netherlands 2012 / p. 217-220
<https://ieeexplore.ieee.org/document/6532258>

TTÜ leiutis pakub huvi suurele USA meditsiinifirmale : [TTÜ professori Mart Mini ja tema kolleegide leiutis]

Min, Mart; Rand, Erik Eesti Päevaleht 2009 / 30. okt., lk. 4 <https://epl.delfi.ee/artikkel/51181213/ttu-leiutis-pakub-huvi-suurele-usa-meditsiinifirmale>

TTÜ sai esimese patendi USA-st : [TTÜ professori Mart Mini ja tema kolleegide väljatöötatud tehnoloogia]

Min, Mart; Roonemaa, Holger Eesti Päevaleht 2010 / 17. juuni, lk. 6

Tunne kolleegi. Enn Velmre : [intervjuu Enn Velmrega]

Velmre, Enn; Rang, Toomas; Haldre, Eero; Oras, Anne; Min, Mart Avaja 2003 / lk. 3 : fot

Tänavavalgustuse tsentraalne juhtimine ja kontroll GSM-võrgu abil

Annus, Paul; Haldre, Eero; Min, Mart Raadiotehnika 2005 : XII rahvusvahelise telekommunikatsioonipäeva materjalid 2005 / lk. 133-137 : ill

Täpsete järgivsüsteemide dünaamika uurimine : magistritöö

Tammemägi, Jaak 1995 https://www.ester.ee/record=b2078796*est

Usage of microfluidic lab-on-chips in biomedicine

Giannitsis, Athanasios; Min, Mart 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. 249-252

Using neural networks to model self-immune disease in terms of the alterations of the dynamic electrical impedance

Giannoukos, Georgios; Min, Mart Proceedings of the International Conference on Numerical Analysis and Applied Mathematics 2014 (ICNAAM-2014) : Rhodes, Greece, 22-28 September 2014 2015 / p. 850001-1 - 850001-4 <http://dx.doi.org/10.1063/1.4913056>

Using of chirp excitation for bioimpedance estimation : theoretical aspects and modeling

Paavle, Toivo; Min, Mart; Parve, Toomas 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. 325-328 : ill

Variation of cardiac and respiratory waveform on human thorax in the case of inductive coupling

Metshein, Margus; Annus, Paul; Land, Raul; Krivošei, Andrei; Ojarand, Jaan; Aabloo, Alvo; Min, Mart 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. 671-674 : ill https://doi.org/10.1007/978-981-10-5122-7_168

Waveform filtering using adaptive filters

Ronk, Ants; Min, Mart Proceedings of the IEEE International Workshop on Intelligent Signal Processing : September 4-7, 1999,

Wearable data acquisition system of multimodal physiological signals for personal health care

Annus, Paul; Samiepour, Ali; Rist, Marek; Ruiso, Indrek; **Krivošei, Andrei; Land, Raul; Parve, Toomas; Min, Mart** pHealth 2013 : proceedings of the 10th International Conference on Wearable Micro and Nano Technologies for Personalized Health : June 26-28, 2013, Tallinn, Estonia 2013 / p. 107-112 : ill

Wearable solutions for monitoring cardiorespiratory activity = Kehal kantavad vahendid kardiorespiratoorse aktiivsuse jälgimiseks

Metshein, Margus 2018 <https://digi.lib.ttu.ee/i/?9961>

Wearable system for non-invasive and continuous monitoring central aortic pressure curve and augmentation index

Krivošei, Andrei; Lamp, Jürgen; Min, Mart; Uuetoa, Tiina; Uuetoa, Hasso; Annus, Paul pHealth 2013 : proceedings of the 10th International Conference on Wearable Micro and Nano Technologies for Personalized Health : June 26-28, 2013, Tallinn, Estonia 2013 / p. 101-106 : ill

Vektoranalizatorok a technikai es orvosi diagnosztikaban

Min, Mart Mérés és automatika: megjelenik a Méréstechnikai és Automatizálási Tudományos Egyesület Szerkesztésében 1989 / p. 55-61

Wideband excitation signals for fast impedance spectroscopy of biological objects = Lairiba ergutussignaalid bioloogiliste objektide kiiretoimelise bioimpedants-spektroskoopia jaoks

Ojarand, Jaan 2012 https://www.ester.ee/record=b2896512*est

Wideband object identification with rectangular wave chirp excitation

Paavle, Toivo; Min, Mart; Annus, Paul; Birjukov, Andrei; Land, Raul; Parve, Toomas ECCTD'09 : European Conference on Circuit Theory and Design 2009 : Antalya, Turkey, August 23-27, 2009 2009 / p. 421-424 <https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=5275007>

Visualizing transplanted muscle flaps using minimally invasive multi-electrode bioimpedance spectroscopy

Gordon, Rauno; Zorkova, Valeria; Min, Mart; Rätsep, Indrek The XIVth International Conference on Electrical Bioimpedance and the 11th Conference on Biomedical Applications of EIT, Gainesville - Florida, Apr. 4-8, 2010 2010 / [4] p

Visualizing transplanted muscle flaps using minimally invasive multi-electrode bioimpedance spectroscopy

Gordon, Rauno; Zorkova, Valeria; Min, Mart; Rätsep, Indrek Journal of physics : conference series 2010 / 1, p. 012103

Üks küsimus : milline on teie jaoks ideaalne ülikool?

Mente et Manu 2020 / lk. 24-25 , 34-35, 44-45 : portr https://www.ester.ee/record=b1242496*est

Анализ системы фазовой автоподстройки частотными методами

Min, Mart Анализ и моделирование технических устройств и систем АСУТП 1978 / с. 55-64

Аналоговая модель для анализа влияния случайных воздействий на работу системы автоматической синфазировки синхронного детектора

Min, Mart Анализ и моделирование технических устройств и систем АСУТП 1977 / с. 89-94

Астатическая система ФАП с цифровым интегратором

Land, Raul; Min, Mart Моделирование и управление в системах технической кибернетики 1987 / с. 37-42

Векторные анализаторы - современные средства анализа электрических сигналов

Min, Mart; Parve, Toomas 1985

Векторные вольтметры и анализаторы

Min, Mart Измерение и моделирование в электронике 1987 / с. 29-48

Динамический синтез высокоточных следящих систем

Min, Mart Расчет и проектирование систем технической кибернетики 1983 / с. 35-40

Динамический синтез системы ФАП третьего порядка

Kiive, Rein; Min, Mart; Paavle, Toivo Тезисы докладов республиканской научно-технической конференции, посвященной Дню радио. [1], Секция: Информационно-измерительная техника 1981 / с. 9-10 : ил https://www.ester.ee/record=b1310782*est

Динамический синтез следящих систем третьего порядка

Land, Raul; Mehik, Allan; Min, Mart XXV студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 21-23 апреля 1981 года : тезисы докладов. Том 2, Автоматика. Энергетика. Механика.

Исследование динамики и помехоустойчивости системы фазовой автоподстройки при помощи моделирования на АВМ

Min, Mart Всесоюзная научно-техническая конференция "Развитие и использование аналоговой и аналого-цифровой вычислительной техники" : тезисы докладов 1981 / с. 141-142

Квадратурные фазочувствительные анализаторы, их построение и опыт применения

Min, Mart Тезисы докладов всесоюзной научно-технической конференции "Современные проблемы фазоизмерительной техники и ее применения" : 18-22 сент. 1989 г. 1989 / с. 19

Квадратурный перемножитель для двухканального фильтра

Min, Mart; Parve, Toomas Избирательные системы с обратной связью : межвузовский тематический научный сборник 1983 / с. 127-129 https://www.ester.ee/record=b2347952*est

Моделирование автоматического синфазатора для синхронного детектора

Min, Mart Тезисы докладов республиканской научно-технической конференции, посвященной 80-летию со дня изобретения радио А. С. Поповым 1975 / с. 75 https://www.ester.ee/record=b1322122*est

Моделирование детерминированной системы ФАПЧ на АВМ

Min, Mart; Paavle, Toivo Труды по электротехнике и автоматике : сборник статей. 13 1975 / с. 67-71 : илл https://www.ester.ee/record=b2190710*est <https://digikogu.taltech.ee/et/Item/ffbd63ed-06d6-4bbb-9468-118f743cc87f>

О применении системы фазовой автоподстройки для управления синхронным детектором

Min, Mart; Parve, Toomas Всесоюзная научно-техническая конференция "Дальнейшее развитие и внедрение новой техники приемных устройств" : тезисы докладов и сообщений 1977 / с. 102-103

О схемных реализациях бездрейфовых сглаживающих фильтров

Parve, Toomas; Min, Mart Анализ и моделирование технических устройств и систем АСУТП 1977 / с. 95-101

Обеспечение адаптивности векторного анализатора к свойствам входных сигналов при помощи встроенного микропроцессора

Min, Mart; Ronk, Ants; Haldre, Eero Всесоюзная научно-техническая конференция «Проблемы развития аппаратных и программных средств вычислительной техники для машинного моделирования»: тезисы докладов 1987 / с. 102

Определение полосы затягивания системы ФАПЧ второго порядка

Min, Mart; Paavle, Toivo Труды по электротехнике и автоматике : сборник статей. 13 1975 / с. 73-77 : илл https://www.ester.ee/record=b2190710*est <https://digikogu.taltech.ee/et/Item/ffbd63ed-06d6-4bbb-9468-118f743cc87f>

Определение полосы однопериодного захвата системы ФАП третьего порядка

Min, Mart; Paavle, T. Расчет и проектирование приборов, устройств и систем технической кибернетики 1980 / с. 125-132

Оценка качества громкоговорителей в обычных помещениях и некоторые вопросы применения векторвольтметра для этой цели

Trampärk, Harri; Min, Mart Синхронные измерительные преобразователи 1984 / с. 63-72

Переходные процессы в неавтономной системе ФАП третьего порядка

Land, Raul; Min, Mart Анализ и синтез сложных систем и цепей с помощью ЭВМ 1986 / с. 71-80

Переходные процессы в системе ФАПЧ с апериодическим фильтром низких частот

Min, Mart Труды по электротехнике и автоматике. 14 1976 / с. 41-44 : илл https://www.ester.ee/record=b2190768*est <https://digikogu.taltech.ee/et/Item/aa35e320-87b1-405b-9cac-3b90c51867d1>

Помехоустойчивость и динамика фазовых процессов в синхронных измерительных преобразователях : автореферат ... кандидата технических наук (05.11.05)

Min, Mart 1984 https://www.ester.ee/record=b2083669*est

Расширение области применения ключевых синхронных детекторов

Min, Mart; Parve, Toomas Тезисы докладов республиканской научно-технической конференции, посвященной Дню радио, Таллин, 1977 1977 / с. 106 https://www.ester.ee/record=b1313776*est

Синхронный преобразователь (его варианты) : [А. с. 1589371]

Min, Mart; Parve, Toomas; Sillamaa, Hanno Открытия. Изобретения 1990 / 32, с. 247

Сглаживающие фильтры с равноволновой переходной характеристикой

Parve, Toomas; Min, Mart Избирательные системы с обратной связью : межвузовский тематический научный сборник 1983 / с. 52-55 https://www.ester.ee/record=b2347952*est

Способ квадратурного перемножения исследуемого сигнала с опорным, использующий аппроксимацию по уолшу

Min, Mart; Parve, Toomas Труды по электротехнике и автоматике : сборник статей. 13 1975 / с. 79-83 : илл https://www.ester.ee/record=b2190710*est <https://digikogu.taltech.ee/et/Item/ffbd63ed-06d6-4bbb-9468-118f743cc87f>

Способ моделирования системы ФАПЧ, работающий в условиях случайных воздействий, с помощью ЭВМ

Min, Mart Proceedings of the Summer Symposium on Circuit Theory, SSCT 77, House of Culture, Kladno-Sitná, September 5. - 9. 1977 1977 / с. [?]

Способ синхронного преобразования в измерительной технике

Min, Mart Синхронные измерительные преобразователи 1984 / с. 3-15

Труды по электротехнике и автоматике

Kukk, Vello; Ubar, Raimund-Johannes; Viilup, Agu; Leis, Paul; Kiitam, Andres; Min, Mart; Parve, Toomas 1978 https://www.ester.ee/record=b2191003*est

Труды по электротехнике и автоматике

Rüstern, Ennu; Sudnitsõn, Aleksander; Ubar, Raimund-Johannes; Grigorjeva, Ksenja; Plakk, Mari; Viilup, Agu; Plaks, Toomas; Gordon, Boris; Einer, Lauri; Välgamäe, Gunnar; Seppel, Simmu; Tilk, Johan; Uutma, Toomas; Kariler, R.; Min, Mart; Paavle, Toivo; Männama, Vello 1979 https://www.ester.ee/record=b1281890*est

Труды по электротехнике и автоматике : сборник статей

Kukk, Vello; Plakk, Mari; Ubar, Raimund-Johannes; Kitsnik, Peeter; Viilup, Agu; Lohuaru, Tõnu; Jänes, Mart; Leis, Paul; Maran, Mihkel; Jõers, Rein; Min, Mart; Parve, Toomas; Korsen, Viljo; Remmel, Ülo; Rang, Toomas; Velme, Enn; Nurste, Ivar; Bachverk, Aleksander; Kiitam, Andres 1977 https://www.ester.ee/record=b2190987*est

Универсальный прибор для селективных амплитудных и фазовых измерений

Min, Mart Тезисы докладов республиканской научно-технической конференции, посвященной 80-летию со дня изобретения радио А. С. Поповым 1975 / с. 76 https://www.ester.ee/record=b1322122*est

Устройство для проверки электрических схем : [А.с. 1705771]

Männama, Vello; Laansoo, Andres; Min, Mart Изобретения 1992 / 2, с. 177

Устройство для синхронного преобразования (его варианты) : [А.с. 1589372]

Min, Mart; Parve, Toomas; Kukk, Vello; Land, T. Открытия. Изобретения 1990 / 32, с. 247-248

Устройство для формирования квадратурных гармонических колебаний (автоское свидетельство № 752369)

Min, Mart; Parve, Toomas Открытия, изобретения, промышленные образцы, товарные знаки : официальный бюллетень Комитета по делам изобретений и открытий при Совете Министров СССР 1980 / с. 231 https://yandex.ru/patents/doc/SU752369A1_19800730

Фазовая автоподстройка координатных сигналов в векторных измерительных преобразователях

Min, Mart Анализ и синтез сложных систем и цепей с помощью ЭВМ 1985 / с. 103-110

Электротехника и автоматика

Rüstern, Ennu; Aarna, Olav; Rebane, Jüri; Min, Mart; Raiend, Kullo; Kiitam, Andres; Saks, Eva; Vendelin, Juhan; Leis, Paul; Salum, Kaja; Keevallik, Andres; Kitsnik, Peeter; Sudnitsõn, Aleksander; Ubar, Raimund-Johannes; Viilup, Agu; Evartson, Teet 1983 https://www.ester.ee/record=b1288991*est

Электротехника и автоматика

Bachverk, Aleksander; Min, Mart; Parve, Toomas; Land, Raul; Lipping, Kalle; Võrno, Toivo; Logunov, Gennadi; Rüstern, Ennu; Peterson, Jaak; Trumm, Tõnu; Trampärk, H.; Sillamaa, Hanno 1984 https://www.ester.ee/record=b1356648*est

Электротехника и автоматика

Seppel, Simmu; Sillamaa, Hanno; Aarna, Olav; Raiend, Kullo; Kukk, Vello; Rüstern, Ennu; Vendelin, Jelena; Leppikson, Viktor; Vijar, Merike; Kurm, Matti; Min, Mart; Parve, Toomas; Välgamäe, Gunnar; Proode, Ülo; Tilk, Johan; Gordon, Boris; Einer, Lauri; Remmel, Ülo; Sepp, Ülo; Uutma, Toomas; Annus, Arno; Bachverk, Aleksander; Kiitam, Andres; Saks, Eva; Sildaru, Kalev 1985 https://www.ester.ee/record=b1302188*est

Электротехника и автоматика

Mägi, Harri; Rüstern, Ennu; Aarna, Olav; Kiitam, Andres; Land, Raul; Min, Mart; Ronk, Ants; Parve, Toomas; Rang, Toomas; Mahhitko, V.P.; Šendrik, M.G.; Tamm, Boris, inform. 1986 https://www.ester.ee/record=b1296468*est

Электротехника и автоматика

Laansoo, Ants; Aarna, Olav; Metsanurm, Margus; Teder, Toomas; Kiitam, Andres; Saks, Eva; Land, Raul; Min, Mart; Remmel, Ülo; Ronk, Ants; Rang, Toomas 1987 https://www.ester.ee/record=b1221893*est

Электротехника и автоматика

Kukk, Vello; Tamm, Uljas; Pikkov, Otto; Min, Mart; Velmre, Enn; Udal, Andres; Nurste, Ivar; Freidin, Boris; Rang, Toomas; Opotski, Aleksei; Laansoo, Ants; Männama, Vello; Järvalt, Aldur; Gurjanov, Boris; Lavrov, Mihhail; Belkina, I.I.; Plakk, Paul; Plakk, Peeter; Plakk, T. 1987 https://www.ester.ee/record=b1224910*est