

Accuracy of numerical methods by calculating static and quasistatic electric fields

Gordon, Rauno; Arola, Tuukka; Wendel, Katrina; Ryyanen, Outi; Hyttinen, Jari Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 3-2, p. 262-283 : ill

ADCS development for student CubeSat satellites - TalTech case study

Rassõlkin, Anton; Vaimann, Toomas; Org, Peeter; Leibak, Alar; Gordon, Rauno; Priidel, Eiko Proceedings of the Estonian Academy of Sciences 2021 / p. 268-285 : ill <https://doi.org/10.3176/proc.2021.3.06> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Bioimpedance analysis of cardiac function using in-vivo experiments, measurements and stimulation

Gordon, Rauno; Haapalainen, A.; Kauppinen, P.; Land, Raul Proceedings of the 13th Nordic-Baltic Conference of BioMedical Engineering NBC'05 : June 13-17, 2005, Umea, Sweden 2005 / p. 309-310

Bio-impedance FDM-modelling inside heart for application in implanted devices

Gordon, Rauno; Kuusik, Alar Proceedings of the 31st International Congress of Electrocardiology "Advances in Electrocardiology 2004" : 27 June - 1 July, 2004, Singapore 2005 / p. 778-782

Bridging the gap between technology and usability for portable brain trauma scanning device

Priidel, Eiko; Mikola, Annika; Gordon, Rauno; Martsepp, Maret; Kenkre, Pranay; Taros, Taavi; Pärenson, Taavet The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [2] p. : ill

Bridging the gap between technology and usability for portable brain trauma scanning device

Priidel, Eiko; Mikola, Annika; Gordon, Rauno; Martsepp, Maret; Kenkre, Pranay; Taros, Taavi; Pärenson, Taavet International journal of bioelectromagnetism 2015 / p. 87-89 : ill

Comparison of eddy current theory and Finite Element Method for metal evaluation

Gordon, Rauno; Märten, Olev; Kolyshkin, Andrei Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 3 2012 / p. 41-45 : ill

Computer modelling of intracardiac electrical bioimpedance

Gordon, Rauno; Kuusik, Alar Proceedings of the 31. International Congress on Electrocardiology : June 27-July 1, 2004, Kyoto, Japan 2004 / [4] p

Computer-simulation of impedance vector dynamics of intra-cardiac 4-electrode bio-impedance measurement

Gordon, Rauno; Rätsep, Indrek; Kink, Andres 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. 257-260 : ill

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 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

Direct eddy current method for volumetric flaws of cylindrical shape

Koliškina, Valentina; Kolyshkin, Andrei; Gordon, Rauno; Märten, Olev ECCOMAS Congress 2016 : VII European Congress on Computational Methods in Applied Sciences and Engineering : proceedings. Vol. 1 2016 / p. 7659-7665 : ill <https://www.eccomas2016.org/proceedings/pdf/5264.pdf>

Durability performance of semiconductor strain gauges in GFRP laminate

Herranen, Henrik; Saar, Tõnis; Gordon, Rauno; Pohlak, Meelis; Lend, Henri Proceedings of the 6th ECCOMAS Thematic Conference on Smart Structures and Materials, SMART 2013 : Turin, Italy, June 24-26, 2013 2013 / p. 1-14 : ill

Eddy current testing models for the analysis of corrosion effects in metal plates

Koliškina, Valentina; Kolyshkin, Andrei; Gordon, Rauno; Märten, Olev 19th European Conference on Mathematics for Industry : June, 13-17, 2016, Santiago de Compostela (Spain) : book of abstracts 2016 / p. 200 <http://dx.doi.org/10.15304/cc.2016.968>

Eddy current validation of Euro-coins

Gordon, Rauno; Märten, 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

Eesti satelliit vaikib : õnnelik õnnetus aitab Hämarikul vältida Koidu saatust

Voog, Viljar; Gordon, Rauno Õhtuleht 2019 / lk. 4-5 : fot <https://www.oh tuleht.ee/977299/eesti-satelliit-vaikib-onnelik-onnetus-aitab-hamarikul-valtida-koidu-saatust>

Electric impedance measurement of tissue phantom materials for development of medical diagnostic systems

Kõiv, Hip; Pesti, Ksenija; Gordon, Rauno Progress reports on impedance spectroscopy : measurements, modeling, and application 2017 / p. 131-137 : ill <https://doi.org/10.1515/9783110449822-013>

Electric impedance measurement of tissue phantom materials for development of medical diagnostic systems

Kõiv, Hip; Gordon, Rauno; Pesti, Ksenija International Workshop on Impedance Spectroscopy 2014 : September 24-26 2014, Chemnitz, Germany 2014 / [2] p. : ill

Electrical bioimpedance measurement : methods and equivalent circuits

Gordon, Rauno; Parve, Toomas BEC 2002 : proceedings of the 8th Biennial Baltic Electronics Conference : October 6-9, 2002, Tallinn, Estonia 2002 / p. 363-366 : ill

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

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>

Fatigue performance of semiconductor strain gauges in GFRP laminate

Herranen, Henrik; Saar, Tõnis; Gordon, Rauno; Pohlak, Meelis; Lend, Henri Advances in applied materials and electronics engineering III 2014 / p. 244-248 <https://doi.org/10.4028/www.scientific.net/AMR.905.244> [Article at Scopus](#)

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

Heart bioimpedance 3D FDM modelling with anisotropic tissue properties

Gordon, Rauno BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 175-178 : ill

Heartwork analysis using bioimpedance method

Gordon, Rauno Telekommunikatsioon 2002 : IX rahvusvahelise telekommunikatsioonipäeva materjalid 2002 / lk. 8-14 : ill

Informatsiooni suudeti vahetada mõlema TalTechi tudengisatelliidiga

Imeline Teadus 2021 / lk. 21 : fot https://www.ester.ee/record=b2747925*est

Intra-cardiac bioimpedance field variability with breathing

Gordon, Rauno; Väisänen, Juho; Hyttinen, Jari 13th International Conference on Electrical Bioimpedance and 8th Conference on Electrical Impedance Tomography 2007 : ICEBIT2007 : August 29th - September 2nd 2007, Graz, Austria 2007 / p. 20-23 https://link.springer.com/chapter/10.1007/978-3-540-73841-1_8

Investigation of molten metal mixing in a DC electric arc furnace with added AC component on different frequencies

Mõlder, Heigo; Järvik, Jaan; Vaimann, Toomas; Gordon, Rauno PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 33-36 : ill <https://www.semanticscholar.org/paper/Investigation-of-molten-metal-mixing-in-a-DC-arc-AC-M%C3%B5lder-Jarvik/38848bbd53c7d118a0077072daa0ffb86f649657>

Koit ja Hämarik karmis kosmoses

Vill, Ants Director. Inseneeria 2019 / lk. 78-83 : fot http://www.ester.ee/record=b2336521*est

Koit jõudis edukalt kosmosesse

Imeline Teadus 2019 / lk. 20 : fot https://www.ester.ee/record=b2747925*est

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>

A method for mixing molten metal and a compatible electric arc furnace

Mõlder, Heigo; Järvik, Jaan; Janson, Kuno; Gordon, Rauno; Vaimann, Toomas Estonian journal of engineering 2011 / p. 220-240 : ill

Millega tegeleb 21. sajandil tehnikaülikool?

Läll, Karl Studioosus 2018 / lk. 8-9 : fot https://issuu.com/studioosus/docs/studioosus_november_1819_veeb

Model of an inductive sensor of cardiac activity attached to patient

Vedru, Jüri; Gordon, Rauno Journal of physics : conference series 2010 / 1, p. 012010 <https://iopscience.iop.org/article/10.1088/1742-6596/224/1/012010>

Modeling the dynamic heart for impedance based cardiac pathology detection

Gordon, Rauno; Maltshenko, S.; Rätsep, Indrek Proceedings of the 3rd European Medical & Biological Engineering Conference EMBE'05 : November 20-25, 2005, Prague, Czech Republic 2005 / [4] p

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

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

Modelling of an inductive sensor of the Foucault cardiogram

Vedru, Jüri; Gordon, Rauno; Humal, Leo Henn; Trolla, Jaanus Estonian journal of engineering 2011 / 3, p. 252-270 : ill

Modelling of cardiac dynamics and intracardiac bioimpedance = Südame dünaamika ja südamesisese bioimpedantsi modelleerimine

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

Multi-electrode arc furnace technology with improved metal processing capability using current driven mixing

Mölder, Heigo; Järvik, Jaan; Vaimann, Toomas; Gordon, Rauno Conference proceedings : 2012 11th International Conference on Environment and Electrical Engineering : Venice, Italy, 18-25 May 2012 2012 / p. 313-316 : ill

On the possibility of detecting the electrical bioimpedance of human body by using non-contact electrodes in capacitive connection

Metshein, Margus; Gordon, Rauno 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. 171-174 : ill
http://www.estel.ee/record=b2150914*est

Organ bio-impedance modelling with 3D mesh of equivalent circuits

Gordon, Rauno 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. 715-718

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

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
<https://www.taylorfrancis.com/chapters/edit/10.1201/b11339-10/precise-eddy-current-impedance-measurement-metal-plates-m%C3%A4rtens-gordon-rist-min-pokatilov-kolyshkins>

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

Satelliidiprogrammi juhti köidab töö ühise eesmärgi nimel

Gordon, Rauno Mente et Manu 2017 / lk. 32-34 : fot https://www.ttu.ee/public/m/mente-et-manu/MM_02_2017/index.html
https://artiklid.elnet.ee/record=b2816034*est

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

Simulation of intra-cardiac catheter complex impedance signals with variable stroke volume

Gordon, Rauno 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. 2892-2895 <https://pubmed.ncbi.nlm.nih.gov/17946148/>

Simulation of intra-cardiac complex impedance signals for developing simple bio-impedance models for cardio-dynamics

Gordon, Rauno 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. 213-216 : ill

System for bioimpedance signal simulation from pulsating blood flow in tissues

Gordon, Rauno; Pesti, Ksenija International workshop on impedance spectroscopy 2012 / p. 22-23 : ill

System for bioimpedance signal simulation from pulsating blood flow in tissues

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

TalTechi tudengisatelliidid : Koit läks juulis orbiidile, valmistub Hämarik

Gordon, Rauno; Tedremaa, Anni; Helenurm, Victoria Mente et Manu 2019 / lk. 48-49 : fot https://www.ester.ee/record=b1242496*est
https://www.ttu.ee/public/m/mente-et-manu/MM_04_2019/mobile/index.html

Teadlased said ühendust satelliidiga Hämarik [Võrguväljaanne]

Ojamets, Indrek; **Gordon, Rauno** novaator.err.ee 2020 / fot [Teadlased said ühendust satelliidiga Hämarik](#)

Tehnikaülikooli uue tudengisatelliidi start läks edukalt [Võrguväljaanne]

novaator.err.ee 2019 / fot [Tehnikaülikooli uue tudengisatelliidi start läks edukalt](#)

TTÜ Mektory Kosmosekeskuse satelliidi alamsüsteemid on valmis

Gordon, Rauno Mente et Manu 2017 / lk. 39 : fot https://www.ttu.ee/public/m/mente-et-manu/MM_03_2017/mobile/index.html#p=1
https://artiklid.elnet.ee/record=b2820650*est

TTÜ100 Satelliidiga läheb kosmosesse "Ta lendab mesipuu poole"

Gordon, Rauno Mente et Manu 2017 / lk. 39 : fot https://www.ttu.ee/public/m/mente-et-manu/MM_04_2017/mobile/index.html#p=1
https://artiklid.elnet.ee/record=b2826921*est

Tudengisatelliidid Koit ja Hämarik lendavad tänavu orbiidile

Tedremaa, Anni; Gordon, Rauno; Arvola, Rene Mente et Manu 2019 / lk. 46-48 fot https://www.ester.ee/record=b1242496*est
https://www.ttu.ee/public/m/mente-et-manu/MM_03_2019/mobile/index.html

Tudengisatelliit Hämarik jõudis viimaks orbiidile [Võrguväljaanne]

novaator.err.ee 2020 / fot [Tudengisatelliit Hämarik jõudis viimaks orbiidile](#)

Validation of simulations of eddy current methods with measurements on phantom materials for biomedical engineering R&D

Pesti, Ksenija; Kõiv, Hip; Gordon, Rauno The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [4] p. : ill

Validation of simulations of eddy current methods with measurements on phantom materials for biomedical engineering R&D

Pesti, Ksenija; Kõiv, Hip; Gordon, Rauno International journal of bioelectromagnetism 2015 / p. 57-63 : ill

Virtual heart : modelling of cardiac dynamics and intracardiac bioimpedance

Gordon, Rauno 2011 <https://www.amazon.com/Virtual-Heart-Modelling-Intracardiac-Bioimpedance/dp/3838370643>

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 / p. 243-246

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
<https://iopscience.iop.org/article/10.1088/1742-6596/224/1/012103>

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
<https://iopscience.iop.org/article/10.1088/1742-6596/224/1/012103>

Väikesatelliit TTÜ100 : läbi testide tähtede poole

Kongas, Kerttu Director. Inseneeria 2017 / lk. 128-131 : fot http://www.ester.ee/record=b1519314*est
https://artiklid.elnet.ee/record=b2830945*est