

Anomaly detection, classification and identification Tool (ADCIT)

Asefi, Sajjad; Mitrovic, Mile; Cetenovic, Dragan; Levi, Victor; Gryazina, Elena; Terzija, Vladimir Software impacts 2023 / art. 100465, 3 p. : ill <https://doi.org/10.1016/j.simpa.2023.100465> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application of Newton's method to analog and digital realization of fractional-order controllers

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri International journal of microelectronics and computer science 2012 / p. 45-52 : ill https://www.researchgate.net/publication/259741864_Application_of_Newton%27s_Method_to_Analog_and_Digital_Realization_of_Fractional-order_Controllers

Closed-loop identification of fractional-order models using FOMCON toolbox for MATLAB

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri 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. 213-216 : ill

Comparative study of field-oriented control model in application for induction and synchronous reluctance motors for life-cycle analysis

Autsou, Siarhei; Saroka, Viktor; Karpovich, Dzmitry; **Rassõlkin, Anton**; **Gevorkov, Levon**; **Vaimann, Toomas**; **Kallaste, Ants**; **Belahcen, Anouar**; Rassõlkin, Anton 2018 25th International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2018 / p. 1-5 : ill <https://doi.org/10.1109/IWED.2018.8321371>

Computation of characteristic coefficients of Cuk converter

Niculescu, Elena; Cristea, Amelia-Maria BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 105-108: ill

Control methods of the dual-motor AC traction drives

Boiko, Vitali 3rd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 16-21, 2006 2006 / p. 177-179 : ill

Control of autonomous mobile robots using wireless network and MATLAB

Vu, Trieu Minh; **Tamre, Mart**; **Hudjakov, Robert**; **Shvarts, Dmitry**; **Põlder, Ahti**; **Hiimaa, Maido**; **Juurma, Märt** Proceedings of the 11th International Conference of DAAAM Baltic Industrial Engineering : 20-22th April 2016, Tallinn, Estonia 2016 / p. 235-240 : ill <http://innomet.ttu.ee/daaam/>

Control system development environment with MatLAB SIMULINK real time workshop

Lehtla, Madis Baltic electrical engineering review 1998 / 1, p. 21-24: ill

Data analysis for embedded software performance and energy consumption estimation

Ruberg, Priit; **Liiv, Elvar**; **Lass, Keijo**; **Ellervee, Peeter** 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 928-933 : ill <https://doi.org/10.1109/UKRCON.2019.8879787>

Design and implementation of fractional-order PID controllers for a fluid tank system

Tepljakov, Aleksei; **Petlenkov, Eduard**; **Belikov, Juri**; Halas, Miroslav 2013 American Control Conference (ACC) : Washington, DC, USA, June 17-19, 2013 2013 / p. 1777-1782 : ill <https://doi.org/10.1109/acc.2013.6580093> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Design and simulations of dual clutch transmission for hybrid electric vehicles

Vu, Trieu Minh; **Abouelkheir, Moustafa** International journal of electric and hybrid vehicles 2017 / p. 302-321 : ill <https://doi.org/10.1504/IJEHV.2017.089873> [Journal metrics at Scopus](#) [Article at Scopus](#)

Design of a MATLAB-based teaching tool in introductory fractional-order systems and controls [Electronic resource]

Tepljakov, Aleksei; **Petlenkov, Eduard**; Gonzalez, Emmanuel A.; Petraš, Ivo 2017 IEEE Frontiers in Education Conference (FIE) : proceedings 2017 / 4 p. : ill [USB] <https://doi.org/10.1109/FIE.2017.8190681>

Design of three-rate stochastic multivariable continuous-time control systems

Astrov, Igor; **Em, Juri**; **Rüstern, Ennu** BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 325-328: ill

Design, optimization and prototyping of small power transformes

Reinap, Avo; **Pikner, Rando**; **Jonikan, Roman**; **Pärn, Karl**; Jakobsons, Edgars; Papickas, Andrius; Dworakowski, Piotr 4th International Symposium Topical Problems of Education in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 15-20, 2007 2007 / p. 219-225 : ill

Development of a wireless sensor network combining MATLAB and embedded microcontrollers

Vu, Trieu Minh; **Tamre, Mart**; Musalimov, Victor; Altunin, Valeri Sensor letters 2015 / p. 1091-1096 : ill <https://doi.org/10.1166/sl.2015.3594> [Journal metrics at Scopus](#) [Article at Scopus](#)

Digital realization of retuning fractional-order controllers for an existing closed-loop control system

Tepljakov, Aleksei; Petlenkov, Eduard; Gonzalez, Emmanuel A.; Belikov, Juri Journal of circuits, systems, and computers 2017 / art. 1750165, p. 1-26 <https://doi.org/10.1142/S0218126617501651> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dynamic qualities of electrical drive with a synchronous machine

Jansikene, Raik 6th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : [Kuressaare, January 12-17, 2009] 2009 / p. 160-163 : ill

Elektrisüsteemi arvutamise alused reaalajasimulatsioonide raamistikus : harjutused

Leinakse, Madis; Andreesen, Guido; Campos, Nathalia de Moraes Dias 2022 https://haldus.taltech.ee/sites/default/files/2023-02/EE_ins_Elektris%C3%BCsteemi_arvutamise_alused_reaalajasimulatsioonide_raamistikus_Harjutused.pdf

Evaluation of control solution for grid inverter of low power wind turbine for implementation with inexpensive hardware

Galkin, Ilja; Zakis, Janis PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 297-302 : ill

A fast current harmonic detection and mitigation strategy for shunt active filter

Firouzjah, Khalil Gorgani; Ahmadihangar, Roya; Rosin, Argo; Häring, Tobias 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 5 p. : ill <https://doi.org/10.1109/PQ.2019.8818253>

Feedback linearization of an active magnetic bearing system operated with a zero-bias flux

Mystkowski, Arkadiusz; Kaparin, Vadim; Kotta, Ülle; Pawluszewicz, Ewa; Tönso, Maris International journal of applied mathematics and computer science 2017 / p. 539-548 : ill <https://doi.org/10.1515/amcs-2017-0038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A flexible MATLAB tool for optimal fractional-order PID controller design subject to specifications

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri Proceedings of the 31st Chinese Control Conference : July, 2012, Hefei, China 2012 / p. 4698-4703 : ill https://www.researchgate.net/publication/259741861_A_Flexible_MATLAB_Tool_for_Optimal_Fractional-order_PID_Controller_Design_Subject_to_Specifications

Flood prevention through condition monitoring of pumping stations

Gevorkov, Levon; Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 5 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982305>

FOMCON : a MATLAB toolbox for fractional-order system identification and control

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri International journal of microelectronics and computer science 2011 / p. 51-62 https://www.researchgate.net/publication/259741855_FOMCON_a_MATLAB_toolbox_for_fractional-order_system_identification_and_control

FOMCON : fractional-order modeling and control toolbox for MATLAB

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri Proceedings of the 18th International Conference Mixed Design of Integrated Circuits and Systems : MIXDES 2011 : Gliwice, Poland 16 - 18 June, 2011 2011 / p. 684-689 https://www.researchgate.net/publication/259741855_FOMCON_a_MATLAB_toolbox_for_fractional-order_system_identification_and_control

Fractional-order controller design and digital implementation using FOMCON toolbox for MATLAB

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri; Finajev, Jevgeni 2013 IEEE Conference on Computer Aided Control System Design (CACSD) : Part of 2013 IEEE Multi-Conference on Systems and Control : Hyderabad, India, August 28-30, 2013 2013 / p. 340-345 : ill

Fuzzy logic control for a ball and beam system

Moezzi, Reza; Vu, Trieu Minh; Tamre, Mart International Journal of Innovative Technology and Interdisciplinary Sciences : IJTIS 2018 / p. 39-48 : ill <https://doi.org/10.1515/IJTIS.2018.1.1.39-48>

Fuzzy logic control for non-linear model of the ball and beam system

Moezzi, Reza; Vu, Trieu Minh Proceedings of the 11th International Conference of DAAAM Baltic Industrial Engineering : 20-22th April 2016, Tallinn, Estonia 2016 / p. 60-65 : ill <http://innomet.ttu.ee/daaam/>

Gain and order scheduled fractional-order PID control of fluid level in a multi-tank system

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri 2014 International Conference on Fractional Differentiation and its Applications (ICFDA) : Catania, Italy, 23-25 June 2014 2014 / [6] p. : ill

Generation of stable polytopes of Hurwitz polynomials via Routh parameters

Nurges, Ülo; Artemtšuk, Igor; Belikov, Juri 53rd IEEE Conference on Decision and Control : December 15-17, 2014, Los Angeles, California, USA 2014 / p. 2390-2395 : ill <https://doi.org/10.1109/CDC.2014.7039753> [Conference proceedings at Scopus](#) [Article](#)

[at Scopus Article at WOS](#)

GMSK modelleerimine

Meister, Ants Raadiotehnika 2001 : VIII rahvusvahelise telekommunikatsioonipäeva materjalid 2001 / lk. 54-58 : ill

Haptic smart glove for augmented and virtual reality

Vu, Trieu Minh; Moezzi, Reza; Katushin, Nikita Sensor letters 2019 / p. 358-364 <https://doi.org/10.1166/sl.2019.4070>

Hybrid-driven digital twin modelling framework for an EV propulsion drive system

Ibrahim, Mahmoud; Rassõlkin, Anton IET Intelligent Transport Systems 2025 / art. e70099 <https://doi.org/10.1049/itr2.70099> [Scopus](#)

Identification of pseudo-random noise generator structure

Lossmann, Eerik; Meister, Ants; Madar, Urve Elektronika ir elektrotehnika = Electronics and electrical engineering 2005 / 6, p. 13-15 <https://eejournal.ktu.lt/index.php/elt/article/view/10460>

Implementation and real-time simulation of a fractional-order controller using a MATLAB based prototyping platform

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 145-148 : ill

Intelligent kitchen model for smart homes

Vu, Trieu Minh; Khanna, Riva Proceedings of the 11th International Conference of DAAAM Baltic Industrial Engineering : 20-22th April 2016, Tallinn, Estonia 2016 / p. 203-208 : ill <http://innomet.ttu.ee/daaam/>

Model for torque estimation of pump system with horizontal pipe network

Gevorkov, Levon; Smidl, Vaclav; Sirovy, Martin; Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas 2019 26th International Workshop on Electric Drives : Improvement in Efficiency of Electric Drives (IWED) : Moscow Power Engineering Institute, Moscow, Russia, 30th of January – 2nd of February 2019 : proceedings 2019 / 5 p. : ill <https://doi.org/10.1109/IWED.2019.8664304>

Motion tracking glove for augmented reality and virtual reality

Vu, Trieu Minh; Katushin, Nikita; Pumwa, John Paladyn, journal of behavioral robotics 2019 / p. 160–166 : ill <https://doi.org/10.1515/pjbr-2019-0012> [Journal metrics at Scopus](#) [Article at Scopus](#)

Performance modelling of DVB-T systems with MatLab/Simulink

Raja, Aimur; Lossmann, Eerik; Sementsov, Y. Proc.8th International Conference ELECTRONICS 2004 : Kaunas 2004 / p. ?

Permanent magnet synchronous machine control performance and analysis for environment-friendly electric vehicle applications

Sardar, Muhammad Usman; Yaqoob, Muhammad; Akbar, Siddique; Shah, Syed Imran Ahmad; Shahid, Muhammad Usama; Mutloob, Tayyaba Engineering Proceedings 2023 / art. 7, p. 1–6 <https://doi.org/10.3390/engproc2023046007> [Journal metrics at Scopus](#) [Article at Scopus](#)

Reliability analysis and simulation of some concatenated coding channels

Madar, Urve; Sinjuk, Aleksei; Lossmann, Eerik Proc.8th International Conference ELECTRONICS 2004 : Kaunas 2004 / p. ? <https://eejournal.ktu.lt/index.php/elt/article/view/10921>

Signaalitöötlus paketiga MATLAB : õppevahend

1993 https://www.ester.ee/record=b1065466*est

Simulation study of the pressure control system for a centrifugal pump [Online resource]

Gevorkov, Levon; Vodovozov, Valery; Raud, Zoja 2016 57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : October 13, 14, 2016 : conference proceedings 2016 / [5] p. : ill <https://doi.org/10.1109/RTUCON.2016.7763086>

Simulink based model for flow control of a centrifugal pumping system

Gevorkov, Levon; Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas 2018 25th International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2018 / p. 1-4 : ill <https://doi.org/10.1109/IWED.2018.8321399>

Simulink based model of electric drive for throttle valve in pumping application

Gevorkov, Levon; Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas 2018 19th International Scientific Conference on Electric Power Engineering (EPE 2018) : Brno, Czech Republic, 16 - 18 May 2018 2018 / p. 256-259 : ill <https://doi.org/10.1109/EPE.2018.8395996>

Simulink/MATLAB based comparison of neural and basic tracking control for an autonomous surface vessel for situation awareness applications

Astrov, Igor; Udal, Andres; Pedai, Andrus; Sell, Raivo 2019 IEEE 19th International Symposium on Computational Intelligence and Informatics and 7th IEEE International Conference on Recent Achievements in Mechatronics, Automation, Computer Sciences

Stepper motor based model of electric drive for throttle valve

Gevorkov, Levon; Šmidl, Václav; Sirový, Martin Proceedings of the 29th International DAAAM Symposium "Intelligent Manufacturing & Automation" : 24-27th October 2018, Zadar, Croatia 2018 / p. 1102-1107 : ill <https://daaam.info/29th-proceedings-2018/http://dx.doi.org/10.2507/29th.daaam.proceedings.157>

Tallinna Tehnikaülikooli uus labor mõjutab digitaalsete kaksikute võidukäiku Eesti tööstuses

Ehitusuudised : [ajalehe Äripäev lisa] 2022 / Lk. 58 [Tallinna Tehnikaülikooli uus labor mõjutab digitaalsete kaksikute võidukäiku Eesti tööstuses https://www.ester.ee/record=b2050444*est](https://www.ester.ee/record=b2050444*est)

The MATLAB and SIMULINK-based software environment for development of electronic nose

Misans, Peteris; **Jozapovitch, Renars**; Kleperis, Janis; Zubkans, Juris; Eglitis, Vilis; Lusiš, Andrejs BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 147-150: ill

The software for artificial nose

Misans, Peteris; Shirs, Juris BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 343-346: ill

Using high-resolution spectral models of gravity anomaly for computing stochastic modifications of Stokes's formula

Ellmann, Artu Computers & geosciences 2012 / p. 188-190 : ill

Анализ помехоустойчивости многоуровневых каскадных кодов в среде MATLAB

Madar, Urve; Sinjuk, Aleksei; **Lossmann, Eerik** Elektronika ir elektrotehnika = Electronics and electrical engineering 2004 / p. 71-74 : ill

Моделирование походки человека в среде MATLAB/SIMULINK

Ovchinnikov, Ivan; Kovalenko, Pavel; **Vu, Trieu Minh** Известия высших учебных заведений. Приборостроение = Journal of instrument engineering 2016 / с. 690-694 : ил <http://dx.doi.org/10.17586/0021-3454-2016-59-8-690-694>