

Analyzing the dynamics and stability of DQ0 systems based on a Port-Hamiltonian approach

Levron, Yoash; Kaparin, Vadim; Belikov, Yuri 2019 27th Mediterranean Conference on Control and Automation (MED) 2019 / p. 410-415 : ill <https://doi.org/10.1109/MED.2019.8798495>

Application of higher order Haar wavelet method for solving nonlinear evolution equations

Ratas, Mart; Salupere, Andrus Mathematical modelling and analysis 2020 / p. 271-288 <https://doi.org/10.3846/mma.2020.11112>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Backstepping-based output feedback boundary control for coupled fractional reaction-diffusion systems

Zhuang, Bo; Cui, Bao-Tong; Lou, Xu-Yang; Chen, Juan Zidonghua Xuebao/Acta Automatica Sinica 2022 / p. 2729 - 2743
<https://doi.org/10.16383/j.aas.c190389> [Journal metrics at Scopus](#) [Article at Scopus](#)

Conserved quantities in discrete dynamics : what can be recovered from Noether's theorem, how, and why?

Capobianco, Silvio; Toffoli, Tommaso Natural computing 2012 / p. 565-577 : ill <https://link.springer.com/article/10.1007/s11047-012-9336-7>

Determining the embedding parameters governing long-term dynamics of copper prices

Cortez, Carlos A. Tapia; Hitch, Michael William; Sammut, Claude Chaos, solitons and fractals 2018 / p. 186-197 : ill
<http://dx.doi.org/10.1016/j.chaos.2018.03.032>

Driven oscillators in modelling of heart dynamics

Engelbrecht, Jüri; Kongas, Olav Applicable analysis 1995 / p. 119-144

Dynamic lighting system for workplaces at Northern latitudes

Koppel, Tarmo Scientific journal of Riga Technical University. Safety of technogenic environment 2012 / p. 39-44
https://www.researchgate.net/publication/266389024_Dynamic_Lighting_System_for_Workplaces_at_Northern_Latitudes

Fractal approach for manufacturing project management

Karaulova, Tatjana; Poljantšikov, Igor; Ševtšenko, Eduard; Kramarenko, Sergei Mechanika 2014 / p. 352-359 : ill
<https://doi.org/10.5755/j01.mech.20.3.6755> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fractional-order modeling and control of dynamic systems : doctoral thesis accepted by Tallinn University of Technology, Tallinn, Estonia

Tepljakov, Aleksei 2017 http://www.ester.ee/record=b4744055*est <http://dx.doi.org/10.1007/978-3-319-52950-9>

Fractional-order modeling and control of dynamic systems = Murrulistel tuletistel põhinev dünaamiliste süsteemide identifitseerimine ja juhtimine

Tepljakov, Aleksei 2015 https://www.ester.ee/record=b4494460*est

Hübrüidsed dünaamilised süsteemid - füüsikaline reaalsus või insenerlik abstraktsioon : ettekanne XL automaatikapäeval 12. märtsil 2002 TTÜ aulas

Vain, Jüri Tallinna Tehnikaülikooli aastaraamat 2002 2003 / lk. 218-221

Integration of iUML-B and UPPAAL timed automata for development of real-time systems with concurrent processes

Shokri-Manninen, Fatima; Tsiopoulos, Leonidas; Vain, Jüri; Walden, Marina Rigorous State-Based Methods 7th International Conference, ABZ 2020, Ulm, Germany, May 27–29, 2020 : proceedings 2020 / p. 186-202 https://doi.org/10.1007/978-3-030-48077-6_13 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Juhtimissüsteemide juhitavus ja tagasiside. Tagasiside. Mittelineaarsus.Lamedus

Kotta, Ülle Keeruka maailma võlu 2015 / lk. 77-80 : ill https://www.ester.ee/record=b4488344*est

Kaoseaamat : [õpik]

Lepik, Ülo; Engelbrecht, Jüri 1999 https://www.ester.ee/record=b1268229*est

Lineaarse mitmedimensionaalse dünaamilise süsteemi identifitseerimine sisend-väljundandmete põhjal

Kotta, Ülle 350 aastat matemaatikat Tartu Ülikoolis = 350 лет математики в Тартуском университете : ettekannete teesid 1982 / lk. 82-85 https://www.ester.ee/record=b1255795*est

Liner dynamic systems with static actuator nonlinearities identification for control [Electronic resource]

Petlenkov, Eduard; Rüstern, Ennu ICGST International Conference on Automatic Control and System Engineering (ACSE-05) : Cairo, Egypt, 2005 2005 / [6] p. [CD-ROM]

Local dynamics of YBa2Cu3O6+x and O(1)-defect dynamical stability

Kristoffel, Nikolai; Klopov, Mihhail Physical review B, Condensed matter 1996 / 13, p. 9074-9076
<https://pubmed.ncbi.nlm.nih.gov/9984636/>

Minimal realizations of nonlinear time-delay systems

Kaldmäe, Arvo; Zbigniew, Bartosiewicz; **Kotta, Ülle**; Wyrwas, Malgorzata IEEE transactions on automatic control 2023 / p. 6766 - 6772 <https://doi.org/10.1109/TAC.2023.3240124> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Model order reduction of electrical machines with multiple inputs

Farzam Far, Mehrnaz; **Belahcen, Anouar**; Rasilo, Paavo; Clenet, Stephane; Pierquin, Antoine IEEE transactions on industry applications 2017 / p. 3355-3360 : ill <https://doi.org/10.1109/TIA.2017.2681967> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modelling of nonholonomic dynamical system

Arjassov, Gennadi; **Baraškova, Tatjana** Materials, methods & technologies 2009 / p. 281-286

Neural network based dynamic pole placement control of nonlinear systems

Petlenkov, Eduard; **Belikov, Juri** IEEE International Conference on Control and Automation : ICCA 2009 : Christchurch, New Zealand, December 9-11, 2009 2009 / p. 410-415 <https://ieeexplore.ieee.org/document/5410160>

Neural networks based ANARX structure for identification and model based control

Petlenkov, Eduard; **Nõmm, Sven**; **Kotta, Ülle** 9th International Conference on Control, Automation, Robotics and Vision : 5-8 December, 2006, Singapore : [proceedings] 2006 / p. 2284-2288 <https://ieeexplore.ieee.org/document/4150221>

Nonlinear dynamics in modeling cardiac arrhythmias

Kongas, Olav 1998 http://www.ester.ee/record=b1060516*est

Nonlinear oscillations in modelling of heart dynamics

Kongas, Olav 1993 http://www.ester.ee/record=b2090083*est

Numerical simulation of ultrasonic time reversal on defects in carbon fibre reinforced polymer

Lints, Martin; **Salupere, Andrus**; Dos Santos, Serge Wave motion 2020 / art. 102526, 10 p. : ill <https://doi.org/10.1016/j.wavemoti.2020.102526> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimal robust filter of uncertain fractional order systems : a penalized deterministic approach

Nosrati, Komeil; **Belikov, Juri**; **Tepljakov, Aleksei**; **Petlenkov, Eduard** IEEE Control Systems Letters 2023 / p. 1075 - 1080 <https://doi.org/10.1109/LCSYS.2022.3230773> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Properties of nonlinear power system models that are symmetrically configured in the narrow sense

Segev, Elior; Ofir, Ron; Levron, Yoash; **Belikov, Juri** 2023 IEEE Power & Energy Society General Meeting (PESGM) : 16-20 July 2023 (2023) 2023 <https://doi.org/10.1109/PESGM52003.2023.10252373>

Reliability analysis of dynamically loaded systems

Karaulova, Tatjana; **Preis, Irina**; Marquis, G. Annals of DAAAM for 2007 & proceedings of the 18th International DAAAM Symposium "Intelligent Manufacturing & Automation" : October 2007, Zadar, Croatia 2007 / p. 367-368 <https://go.gale.com/ps/i.do?id=GALE%7CA177174647&sid=googleScholar&v=2.1&it=r&linkaccess=abs&issn=17269679&p=AONE&sw=w&userGroupName=anon%7E1d908e25&aty=open-web-entry>

Stabilizing region of fractional-order proportional integral derivative controllers for interval delayed fractional-order plants

Ghorbani, Majid; **Tepljakov, Aleksei**; **Petlenkov, Eduard** Asian Journal of Control 2023 / p. 1145 - 1155 <https://doi.org/10.1002/asjc.2894> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Stabilizing region of fractional-order proportional integral derivative controllers for interval fractional-order plants

Ghorbani, Majid; **Tepljakov, Aleksei**; **Petlenkov, Eduard** Transactions of the Institute of Measurement and Control 2023 / p. 546-556 : ill <https://doi.org/10.1177/01423312221117866> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Süsteemi arendamine ja projektid

Mikli, Toomas Arvutustehnika ja Andmetöötlus 1995 / 11, lk. 8-15

Ultra enterprise 10000: dynamic system domains

A & A 1998 / 4, lk. 27-32

Анализ точности оценивания весовой функции простейших линейных динамических объектов

Oll, Jaak Труды по электротехнике и автоматике : сборник статей. 7 1970 / с. 79-90 : илл https://www.ester.ee/record=b2189958*est <https://digikogu.taltech.ee/et/Item/33610e22-06c3-48a2-83bd-e55be9589930>

Идентификация многомерных линейных стационарных динамических систем : автореферат ... кандидата технических наук (05.13.01)

Kotta, Ülle 1980 https://www.ester.ee/record=b3545499*est

О применении теоремы кинетической энергии при решении задач динамики системы

Tiikma, Boris 1957 https://www.ester.ee/record=b1389952*est <https://digikogu.taltech.ee/et/Item/51f7df41-d364-437c-b82f-0a782850716f/>

Об одной методике информационного изучения динамических систем

Krevald, Aadu Очерки по обработке информации и функциональному анализу 1971 / с. 51-57 : илл

https://www.ester.ee/record=b1356667*est <https://digikogu.taltech.ee/et/Item/a431c49f-a972-4e58-916b-947eea59962d>

Об оптимальном расположении наблюдений для линейной динамической системы

Oll, Jaak Труды по электротехнике и автоматике : сборник статей. 9 1971 / с. 53-62 https://www.ester.ee/record=b2190156*est

<https://digikogu.taltech.ee/et/Item/945ec07e-d7b0-466e-bc24-6ad904a829e9/>

Принципы оптимизации процессов в развивающихся стохастических системах

Valdma, Mati II Всесоюзная конференция по проблемам управления развитием систем (курс-II) : Таллин, 26-28 апреля 1982 г.

: тезисы докладов конференции 1982 / с. 116-118 https://www.ester.ee/record=b2681243*est

Статистический анализ рядов динамики

Vensel, Vello 1992 https://www.ester.ee/record=b1063145*est

Теоремы взаимности для динамических систем с конечным числом степеней свободы

Tšistjakova, Ananda Математика и теоретическая механика : сборник статей. 5 1970 / с. 71-82

https://www.ester.ee/record=b2189972*est <https://digikogu.taltech.ee/et/Item/3c00e8d1-e734-4bf3-b2a0-e0081b3050d2/>