

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

Levron, Yoash; **Kaparin, Vadim; Belikov, Juri** 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](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.estet.ee/record=b4744055\\*est](http://www.estet.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.estet.ee/record=b4494460\\*est](https://www.estet.ee/record=b4494460*est)

## Hübridsed 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; Tsipopoulos, 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](https://doi.org/10.1007/978-3-030-48077-6_13) [Conference proceedings at Scopus](#) [Article at Scopus](#)

## Juhimissüsteemide juhitavus ja tagasiside. Tagasiside. Mittelineaarsus.Lamedus

Kotta, Ülle Keeruka maailma võlu 2015 / lk. 77-80 : ill [https://www.estet.ee/record=b4488344\\*est](https://www.estet.ee/record=b4488344*est)

## Kaoseraamat : [öpik]

Lepik, Ülo; Engelbrecht, Jüri 1999 [https://www.estet.ee/record=b1268229\\*est](https://www.estet.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.estet.ee/record=b1255795\\*est](https://www.estet.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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>6+x</sub> 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**

**Kaldm  , Arvo**; Zbigniew, Bartosiewicz; **Kotta,   lle**; Wyrwas, Małgorzata 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**; Bara  kova, 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**; N  mm, Sven; **Kotta,   lle** 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.esther.ee/record=b1060516\\*est](http://www.esther.ee/record=b1060516*est)

### **Nonlinear oscillations in modelling of heart dynamics**

**Kongas, Olav** 1993 [http://www.esther.ee/record=b2090083\\*est](http://www.esther.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](#)

### **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.esther.ee/record=b2189958\\*est](https://www.esther.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,   lle 1980 [https://www.esther.ee/record=b3545499\\*est](https://www.esther.ee/record=b3545499*est)

### **О применении теоремы кинетической энергии при решении задач динамики системы**

Tiikma, Boris 1957 [https://www.esther.ee/record=b1389952\\*est](https://www.esther.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.estor.ee/record=b1356667\\*est](https://www.estor.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.estor.ee/record=b2190156\\*est](https://www.estor.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.estor.ee/record=b2681243\\*est](https://www.estor.ee/record=b2681243*est)

**Статистический анализ рядов динамики**

**Vensel, Vello** 1992 [https://www.estor.ee/record=b1063145\\*est](https://www.estor.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.estor.ee/record=b2189972\\*est](https://www.estor.ee/record=b2189972*est) <https://digikogu.taltech.ee/et/item/3c00e8d1-e734-4bf3-b2a0-e0081b3050d2/>