

A two-stage approach to 2D DOA estimation for a compact circular microphone array

Astapov, Sergei; Berdnikova, Julia; Preden, Jürge-Sören 2015 4th International Conference on Informatics, Electronics & Vision (ICIEV) : [proceedings] 2015 / [6] p. : ill

A two-stage approach to 2D DOA estimation for a compact circular microphone array

Astapov, Sergei; Berdnikova, Julia; Preden, Jürge-Sören 2015 4th International Conference on Informatics, Electronics & Vision (ICIEV) : [abstracts] 2015 / p. 74-75

Adaptability, interpretability and rule weights in fuzzy rule-based systems

Riid, Andri; Rüstern, Ennu Information sciences 2014 / p. 301-312 : ill <https://doi.org/10.1016/j.ins.2012.12.048> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Adaptive output feedback linearization for a class of NN-based ANARX models

Petlenkov, Eduard; Nõmm, Sven; Kotta, Ülle 5th Junior European Meeting on Control & Information Technology : September 20-22, 2006, Tallinn, Estonia : book of abstracts 2006 / p. 10

Advances in moving speaker acoustic localization for operation in distributed systems

Astapov, Sergei; Berdnikova, Julia; Preden, Jürge-Sören Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK seitsmenda aastakonverentsi artiklite kogumik : 15.-16. novembril 2013, Haapsalu 2013 / p. 9-12 : ill

Advances in terahertz technology with emphasis on quantum cascade lasers

Reeder, Reeno; Velmre, Enn; Udal, Andres Elektronika ir elektrotehnika = Electronics and electrical engineering 2010 / p. 47-50 : ill <https://eejournal.ktu.lt/index.php/elt/article/view/9225>

Algebraic approach for analysis and control of a water tank system

Belikov, Juri; Kotta, Ülle; Tepljakov, Aleksei Information technology and control 2016 / p. 175-183 : ill <https://doi.org/10.5755/j01.itc.45.2.13212> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analysis of the performances of hyperspectral lidar for water pollution diagnostics

Sobolev, Innokenti; Babichenko, Sergey EARSeL eProceedings 2013 / p. 113-123 : ill

Annual report of research activities in 2000 / Estonian Business School

2001 https://www.ester.ee/record=b1751498*est

Application of genetic algorithms to neural networks based control of a liquid level tank system

Vassiljeva, Kristina; Belikov, Juri; Petlenkov, Eduard 2014 International Joint Conference on Neural Networks (IJCNN) : July 6-11, 2014, Beijing, China 2014 / p. 2525-2530 : ill <https://doi.org/10.1109/IJCNN.2014.6889912> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Application of MPC to industrial water boiler control system in district heat plant

Vansovitš, Vitali; Petlenkov, Eduard; Vassiljeva, Kristina; Tepljakov, Aleksei; Belikov, Juri 2014 13th International Conference on Control, Automation, Robotics & Vision (ICARCV 2014) : Marina Bay Sands, Singapore, 10-12th December 2014 2014 / p. 1609-1614 : ill

Application of neural networks based SANARX model for identification and control liquid level tank system

Belikov, Juri; Nõmm, Sven; Petlenkov, Eduard; Vassiljeva, Kristina 2013 12th International Conference on Machine Learning and Applications : ICMLA 2013 : 4-7 December 2013, Miami, Florida, USA : proceedings. Vol. 1 2013 / p. 246-251 : ill

Application of the wavelet transform for feature extraction in the analysis of hyperspectral laser-induced fluorescence data

Sobolev, Innokenti; Babichenko, Sergey International journal of remote sensing 2013 / p. 7218-7235 : ill <https://doi.org/10.1080/01431161.2013.817714> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Artificial intelligence methods for data based modeling and analysis of complex processes : real life examples [Online resource]

Vassiljeva, Kristina; Petlenkov, Eduard; Vansovitš, Vitali; Tepljakov, Aleksei Proceedings of the 2016 IEEE First International Conference on Data Stream Mining & Processing (DSMP) : Lviv, Ukraine, August 23-27, 2016 2016 / p. 363-368 : ill <https://doi.org/10.1109/DSMP.2016.7583579>

Authentication using shared knowledge : learning agents

Kimlaychuk, Vadim Intelligent autonomous systems 12. Vol. 2, Proceedings of the 12th International Conference IAS-12, held June 26-29, 2012 : Jeju Island, Korea 2013 / p. 523-531 : ill https://doi.org/10.1007/978-3-642-33932-5_48 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Automaatika kateeder/instituut 12.03.1960-12.03.2010 : 50

Automated neural network model selection algorithm for feedback linearization based control

Vassiljeva, Kristina; Petlenkov, Eduard; Belikov, Juri 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. 235-238 : ill

Automatic answer evaluation with competence based learning

Umbleja, Kadri Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK seitsmenda aastakonverentsi artiklite kogumik : 15.-16. novembril 2013, Haapsalu 2013 / p. 111-114 : ill

Business and it alignment in enterprise considering the partner network's constraints

Vaezipour, Atiyeh; **Kangilaski, Taivo** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 213-218 : ill

Can K-12 students learn how to program with just two hours?

Umbleja, Kadri Learning Technology for Education in Cloud : The Changing Face of Education : 5th International Workshop, LTEC 2016, Hagen, Germany, July 25-28, 2016 : proceedings 2016 / p. 250-264 : ill https://doi.org/10.1007/978-3-319-42147-6_21 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Catalogue of CRISMA applications, framework building block specifications and software implementations [Electronic resource]

Havlik, Denis; Dihe, Pascal; **Rannat, Kalev** 2015 <https://crisma-cat.ait.ac.at/print/book/export/html/109>

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

Collaborative project management framework for partner network initiation

Ševtšenko, Eduard; Poljantšikov, Igor; Mahmood, Kashif; Kangilaski, Taivo; Norta, Alexander Procedia engineering 2015 / p. 159-168 : ill <https://doi.org/10.1016/j.proeng.2015.01.354> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Collective acoustic localization in a network of dual channel low power devices

Astapov, Sergei; Ehala, Johannes; Preden, Jürjo-Sören Proceedings of the 21st International Conference Mixed Design of Integrated Circuits and Systems : MIXDES 2014 : Lublin, Poland, June 19-21, 2014 2014 / p. 430-435 : ill

Column water vapour : an intertechnique comparison of estimation methods in Estonia

Keernik, Hannes; Ohvri, Hanno; Jakobson, Erko; **Rannat, Kalev; Luhamaa, Andres** Proceedings of the Estonian Academy of Sciences 2014 / p. 37-47 : ill https://artiklid.elnet.ee/record=b2665209*est <https://doi.org/10.3176/proc.2014.1.07> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A combined method for error and complexity reduction in fuzzy rule-based classification

Riid, Andri; Preden, Jürjo-Sören IEEE International Conference on Fuzzy Systems : August 2-5, 2015, Istanbul, Turkey 2015 / [6] p. : ill <https://doi.org/10.1109/FUZZ-IEEE.2015.7337806> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Combining multiple sound sources localization hybrid algorithm and fuzzy rule based classification for real-time speaker tracking application

Ibala, Christian; **Astapov, Sergei; Riid, Andri** International journal of microelectronics and computer science 2013 / p. 12-25 : ill https://www.researchgate.net/publication/261467057_Combining_Multiple_Sound_Sources_Localization_Hybrid_Algorithm_and_Fuzzy_Rule_Based_Classification_for_Real-time_Speaker_Tracking_Application

Comparison of uncertainty relations in quantum mechanics and signal processing

Udal, Andres; Kukk, Vello; Velme, Enn; Klopov, Mihhail 11th International Conference on Squeezed States and Uncertainty Relations and 4th Feynman Festival : June 22-26, 2009, Olomouc, Czech Republic : book of abstracts 2009 / p. 135-136 https://jointlab.upol.cz/icssur2009/doc/bookabs_2nded.pdf

Comparison of uncertainty relations in quantum mechanics and signal processing [Electronic resource]

Udal, Andres; Kukk, Vello; Velme, Enn; Klopov, Mihhail 11th International Conference on Squeezed States and Uncertainty Relations and 4th Feynman Festival : Olomouc, Czech Republic, June 22-26, 2009 : conference proceedings 2009 / [16] p. [DVD]

Competence Based Interactive Learning with HomeLabKits : experience and work in progress

Jaanus, Martin; Umbleja, Kadri; Kukk, Vello; Udal, Andres 2014 IEEE Global Engineering Education Conference (EDUCON) : Istanbul, Turkey, April 2-5, 2014 2014 / 1082-1084 : ill

Competence-based approach to learning

Umbleja, Kadri; Kuk, Vello; Jaanus, Martin 2013 IEEE Global Engineering Education Conference (EDUCON) : 13-15 March 2013, Technische Universität Berlin, Berlin, Germany 2013 / p. 552-559 : ill

Computation of open-loop frequency-domain characteristics of fractional FORDT plants with FOPID controllers
Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri Doctoral School in Information and Communication Technology : proceedings of doctoral session of BEC 2014 : October 6-8 2014, Laulasmaa 2014 / p. 23-26

Computational intelligence methods based design of closed-loop system
Belikov, Juri; Petlenkov, Eduard; Vassiljeva, Kristina; Nömm, Sven Neural information processing : 20th International Conference, ICONIP 2013, Daegu, Korea, November 3-7, 2013 : proceedings. Part I 2013 / p. 215-224 : ill https://doi.org/10.1007/978-3-642-42054-2_28 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Course implementation : value-added mode
Kuk, Vello Learning Technology for Education in Cloud : The Changing Face of Education : 5th International Workshop, LTEC 2016, Hagen, Germany, July 25-28, 2016 : proceedings 2016 / p. 265-273 : ill https://doi.org/10.1007/978-3-319-42147-6_22 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Critical analysis of uncertainty relations based on signal duration and spectrum width
Udal, Andres; Kuk, Vello; Velme, Enn Elektronika ir elektrotehnika = Electronics and electrical engineering 2009 / p. 31-34 : ill https://www.ester.ee/record=b1200105*est <https://eejournal.ktu.lt/index.php/elt/article/view/10098>

Data to decision : pushing situational information needs to the edge of the network
Preden, Jürjo-Sören; Kaugerand, Jaanus; Suurjaak, Erki; Astapov, Sergei; Pahtma, Raido; Mõtus, Leo 2015 IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision (CogSIMA 2015) : 9-12 March 2015, Orlando, Florida, USA 2015 / p. 158-164 : ill <http://dx.doi.org/10.1109/COGSIMA.2015.7108192>

Design and experimentation of fuzzy logic control for an anti-lock braking system
Aksjonov, Andrei; Vodovozov, Valery; Petlenkov, Eduard 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. 207-210 : ill http://www.ester.ee/record=b2150914*est

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 of retuning fractional PID controllers for a closed-loop magnetic levitation control system
Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri; Gonzalez, Emmanuel A. 2014 13th International Conference on Control, Automation, Robotics & Vision (ICARCV 2014) : Marina Bay Sands, Singapore, 10-12th December 2014 2014 / p. 1345-1350 : ill

Design of three-rate continuous-time subcontrollers for the multidimensional stochastic state-space model of an experimental aircraft
Astrov, Igor; Pedai, Andrus; Rüstern, Ennu The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 277-280 : ill

Design of two-rate stochastic multivariable discrete-time control systems
Astrov, Igor; Rüstern, Ennu The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 79-82 : ill

Detection, identification and tracking of mobile objects with distributed system of systems
Riid, Andri; Preden, Jürjo-Sören; Astapov, Sergei Proceedings of the 9th International Conference on System of Systems Engineering (SoSE 2014) : 9-13 June 2014, Stamford Grand, Glenelg, Australia 2014 / p. 224-229 : ill

Determination of regional variants in the versification of Estonian folksongs using an interpretable fuzzy rule-based classifier
Riid, Andri; Sarv, Mari Proceedings of the 8th Conference of the European Society for Fuzzy Logic and Technology (EUSFLAT 2013), Milano, Italy, September 11-13, 2013 2013 / p. 61-66 : ill

Development of artificial intelligence towards singularity
Pedai, Andrus; Astrov, Igor World Academy of Science, Engineering and Technology. Knowledge and innovation engineering 2014 / p. 81

Development of the software tools for simulation of quantum well media for radiation amplification in MIR and THz regions
Udal, Andres; Reeder, Reeno; Valusis, G.; Kasalynas, I.; Ikonis, Zoran; Indjin, D. 3rd Annual Conference of COST Action MP1204 & 6th International Conference on Semiconductor Mid-IR Materials and Optics SMMO2015 : book of abstracts : Institute of Photonics

Digital fractional-order control of a position servo

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri; Astapov, Sergei Proceedings of the 20th International Conference Mixed Design of Integrated Circuits and Systems : MIXDES 2013, Gdynia, Poland, June 20-22, 2013 2013 / p. 462-467 : ill

Digital implementation of retuning fractional controllers for an existing closed-loop magnetic levitation control system

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri 2016 39th International Conference on Telecommunications and Signal Processing : TSP : June 27-29, 2016, Vienna, Austria 2016 / p. 630-633 : ill <https://doi.org/10.1109/TSP.2016.7760958>

Digital microfluidics platform for interfacing solid-liquid extraction column with portable capillary electropherograph for analysis of soil amino acids

Gorbatšova, Jelena; Jaanus, Martin; Vaher, Merike; Kaljurand, Mihkel Electrophoresis 2016 / p. 472-475 : ill
<https://doi.org/10.1002/elps.201500284> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Discussion of the development aspects of the quantum cascadelaser simulation software

Reeder, Reeno; Udal, Andres; Velmre, Enn International Conference on THz and Mid Infrared Radiation and Applications to Cancer Detection Using Laser Imaging jointly with the Workgroup Meetings of Cost Actions MP1204 and BM1205 : October 10-11, 2013, Sheffield, United Kingdom 2013 / p. [36] <http://tera-mir.org/main/node/60>

Distributed fusion and automated sensor tasking in ISR systems

Preden, Jürjo-Sören; Pahtma, Raido; Astapov, Sergei; Ehala, Johannes; Riid, Andri; Mõtus, Leo Ground/air multisensor interoperability, integration, and networking for persistent ISR V 2014 / p. 90790M-1 - 90790M-10 : ill <https://doi.org/10.1117/12.2054731>
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Distributed signal processing for situation assessment in cyber-physical systems = Hajutatud signaalitöötlus olukorra hindamiseks küberfüüsilikes süsteemides

Astapov, Sergei 2016 <http://digi.lib.ttu.ee/i/?6212> https://www.ester.ee/record=b4603470*est

Dynamics of partner network

Kangilaski, Taivo; Ševtšenko, Eduard Proceedings : 2014 IEEE 23rd International Symposium on Industrial Electronics (ISIE) : Grand Cevahir Hotel and Convention Center, Istanbul, Turkey, 01-04 June, 2014 2014 / p. 105-110 : ill

EE : Eesti (Estonia)

Ubar, Raimund-Johannes; Rüstern, Ennu; Kruus, Margus Towards the harmonisation of Electrical and Information Engineering Education in Europe : 2003-2004 2003 / p. 67-74 : ill http://www.ester.ee/record=b2300874*est

Eesti Energia käiduhaldussüsteem

Kangilaski, Taivo 2004 https://www.ester.ee/record=b1953730*est

Eesti kõrghariduse kvaliteedikindlustus

1995 https://www.ester.ee/record=b1057416*est

Eesti Rahva Muuseumi pildialbum = Die Postkarten des Estnischen Nationalmuseums = Альбом открыток Эстонского национального музея = The Estonian National Museum in pictures

2008 https://www.ester.ee/record=b2423718*est

Eesti Teaduste Akadeemia aastaraamat = Annales academiae scientarum Estonicae 2012

2013

Eesti Teaduste Akadeemia aastaraamat = Annales academiae scientarum Estonicae 2013

2014

Efficient analog implementations of fractional-order controllers

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri Proceedings of the 2013 14th International Carpathian Control Conference (ICCC) : Rytyro, Hotel Perla Południa, Poland, May 26-29, 2013 2013 / p. 377-382 : ill

Elektroonilisi arutlusi

Mõtus, Leo Elektroonika 2000 : VII rahvusvahelise telekommunikatsioonipäeva konverentsi ettekannete materjalid 2000 / lk. 5-6
https://www.ester.ee/record=b1399956*est

Embedded system implementation of digital fractional filter approximations for control applications

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri Proceedings of the 21st International Conference Mixed Design of Integrated Circuits and Systems : MIXDES 2014 : Lublin, Poland, June 19-21, 2014 2014 / p. 441-445 : ill

Engineering applications of artificial intelligence : the International journal of intelligent real-time automation
1996 https://www.ester.ee/record=b1200126*est

Enhanced situational awareness for autonomous underwater vehicles
Astrov, Igor 2013

Enhancing situation-awareness, cognition and reasoning of ad-hoc network agents = Spontaanvõrgu agentide situatsiooniteadlikkuse, taju ja arutlusvõime täiendamine
Preden, Jürjo-Sören 2010 https://www.ester.ee/record=b2607110*est

Enhancing the quality of contingency planning by simulation
Honkavuo, Hanna; Jähi, Markus; Kosonen, Ari; Piira, Kalevi; Rannat, Kalev; Soininen, Jari; Meriste, Merik; Taveter, Kuldar
ISCRAM2015 conference proceedings : 12th International Conference on Information Systems for Crisis Response and Management : Kristiansand, May 24-27 2015 / [6] p. : ill

Esimene A-päev ja lipu saamislugu
Kukk, Vello; Rehepapp, Ülo Tallinna Tehnikaülikooli aastaraamat 2012 2013 / lk. 194-196

Estonian Academy of Sciences year book = Annales Academiae Scientiarum Estonicae 2012
Mõtus, Leo 2013 https://www.ester.ee/record=b1218154*est

Estonian Academy of Sciences year book = Annales Academiae Scientiarum Estonicae 2013
Mõtus, Leo 2014 https://www.ester.ee/record=b1218154*est

Estonian Academy of Sciences year book 2004
Mõtus, Leo 2005 https://www.ester.ee/record=b1218154*est

Estonian Academy of Sciences year book 2005
Mõtus, Leo 2006 https://www.ester.ee/record=b1218154*est

Estonian Academy of Sciences year book 2006
Mõtus, Leo 2007 https://www.ester.ee/record=b1218154*est

Estonian Academy of Sciences year book 2007
Mõtus, Leo 2008 https://www.ester.ee/record=b1218154*est

Estonian Academy of Sciences year book 2008
Mõtus, Leo 2009 https://www.ester.ee/record=b1218154*est

Estonian Academy of Sciences year book 2009
Mõtus, Leo 2010 https://www.ester.ee/record=b1218154*est

Estonian Academy of Sciences year book 2010
Mõtus, Leo 2011 https://www.ester.ee/record=b1218154*est

Estonian Academy of Sciences year book 2011
Mõtus, Leo 2012 https://www.ester.ee/record=b1218154*est

[Ettekanne Eesti Haridusfoorumi uuest mudelist]
Aarna, Olav Hariduse roll Eesti ühiskonna arengu kujundajana : ettekannete ja sõnavõtte kogumik : Eesti Haridusfoorum '98 : 20.-21. nov. 1998, Haapsalu 1999 / lk. 124-126 https://www.ester.ee/record=b1336192*est

Experiments in neural network inverse modelling based control for a class of nonlinear systems
Petlenkov, Eduard; Rüstern, Ennu BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 145-148 : ill

Fault prediction in power network
Kangilaski, Taivo The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 289-292

Fixed-order stabilising controller design by a mixed randomised/deterministic method
Nurges, Ülo; Avanessov, Sergei International journal of control 2015 / p. 335-346 <https://doi.org/10.1080/00207179.2014.953208>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Flight control of unmanned rotorcrafts for enhanced situational awareness

Astrov, Igor 2014 https://www.ester.ee/record=b4528435*est

Flight control of vectored thrust aerial vehicle by neural network predictive controller for enhanced situational awareness

Astrov, Igor; Pikkov, Mihhail; Paluoja, Rein World Academy of Science, Engineering and Technology 2013 / p. 77-81 : ill

Foorumi avamine : [sõnavõtt]

Aarna, Olav Hariduse roll Eesti ühiskonna arengu kujundajana : ettekannete ja sõnavõtte kogumik : Eesti Haridusfoorum '98 : 20.- 21. nov. 1998, Haapsalu 1999 / lk. 12-14 https://www.ester.ee/record=b1336192*est

FOPID controller tuning for fractional FOPDT plants subject to design specifications in the frequency domain

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri 2015 European Control Conference (ECC) : July 15-17, 2015, Linz, Austria 2015 / p. 3502-3507 : ill <http://dx.doi.org/10.1109/ECC.2015.7331076>

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

Fractional-order controller design for a magnetic levitation system

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication Technologies : December 5-6, 2014, Rakvere 2014 / p. 137-140 : ill

Fractional-order digital filter approximation method for embedded control applications

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri International journal of microelectronics and computer science 2014 / p. 54-60 : ill

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

A framework for comprehensive impact assessment in the case of an extreme winter scenario, considering integrative aspects of systemic vulnerability and resilience

Molarius, Riitta; Tuomaala, Pekka; Piira, Kalevi; Räikkönen, Minna; Aubrecht, Christoph; Polese, Maria; Zuccaro, Giulio; Pilli-Sihvola, Karoliina; **Rannat, Kalev** CMES - Computer Modeling in Engineering and Sciences 2015 / p. 131 - 158
<https://www.techscience.com/CMES/v109n2/27295> <https://doi.org/10.3970/cmcs.2015.109.131> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

FSI - 500Mhz PLL frequency synthesizer IC

Saarts, Taivo; Paist, Peeter Elektroonika 2004 : XI rahvusvahelise telekommunikatsioonipäeva materjalid 2004 / p. 85-97 : ill
https://www.ester.ee/record=b1910557*est

Fuzzy hierarchical control of truck and trailer

Riid, Andri; Rüstern, Ennu BEC 2002 : proceedings of the 8th Biennial Baltic Electronics Conference : October 6-9, 2002, Tallinn, Estonia 2002 / p. 141-144 : ill

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

GCOS reference upper air network (GRUAN) : steps towards assuring future climate records

Thorne, Peter W.; Vömel, Holger; Bodeker, Gregory E.; Sommer, Michael; Apituley, Arnoud; Berger, Franz H.; Bojinski, Stephan; Braathen, Geir O.; Calpini, Bertrand; Demoz, Belay B.; Diamond, Howard J.; Dykema, John A.; **Rannat, Kalev** Temperature - its measurement and control in science and industry, volume 8 : proceedings of the Ninth International Temperature Symposium; Los Angeles, California, USA, 19 - 23 March 2012 2013 / p. 1042-1047 <https://doi.org/10.1063/1.4821421> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Generating situation awareness in cyber-physical systems : creation and exchange of situational information

Preden, Jürjo-Sören CODES '14 : proceedings of the 2014 International Conference on Hardware/Software Codesign and System Synthesis 2014 / [3] 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](#)

Generic membership function and its application to fuzzy modeling

Riid, Andri; Isotamm, Raul; Rüstern, Ennu BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 129-132 : ill

Genetic algorithms in transparent fuzzy modeling

Riid, Andri; Jartsev, Pavel; Rüstern, Ennu The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 91-94 : ill

Gunshot acoustic component localization with distributed circular microphone arrays

Astapov, Sergei; Ehala, Johannes; Berdnikova, Julia; Preden, Jürjo-Sören DSP 2015 : 2015 IEEE International Conference on Digital Signal Processing (DSP) : 21-24 July 2015, Singapore 2015 / p. 1186-1190 : ill

Haridus ja infotehnoloogia või vastupidi

Kukk, Vello Seestpoolt suurem Eesti. Haridus ja haritus 2013 / lk. 91-97 : portr

Human limb model structure optimization with genetic algorithm

Nõmm, Sven; Vassiljeva, Kristina; Kuusik, Alar EMS2013 : UKSim-AMSS 7th European Modelling Symposium, 20-22 November 2013, Manchester, United Kindgom : [proceedings] 2013 / p. 124-129

Hyperspectral data processing and interpretation in remote sensing based on laser-induced fluorescence method =

Hüperspektraalse andmete analüüs ja tõlgendamine kaugeires laser-induced-fluorescence-meetodi põhjal
Sobolev, Innokenti 2014

ICMS User Handbook V2 [Electronic resource]

Frings, Sandra; Engelbach, Wolf; Havlik Denis; **Taveter, Kuldar; Meriste, Merik; Rannat, Kalev** 2015

http://www.crismaproject.eu/deliverables/CRISMA_D362_public.pdf

ICT and business alignment in Partner Network : will the alignment depend on maturities?

Kangilaski, Taivo Proceedings of 7th IFAC Conference on Manufacturing Modelling, Management, and Control, 2013 2013 / p. 573-578 <https://doi.org/10.3182/20130619-3-RU-3018.00047> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Identification, implementation and simulation of ground source heat pump with ground temperature modeling

Köse, Ahmet; Petlenkov, Eduard 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. 163-166 : ill
http://www.ester.ee/record=b2150914*est

IEEE Eesti sektsioon on 10-aastane

Tammemäe, Kalle; Kukk, Vello Elektriala 2016 / lk. 14-15 http://www.ester.ee/record=b1240496*est

https://artiklid.elnet.ee/record=b2803323*est

Implementation of the robot arm in the interactive learning environment

Jaanus, Martin; Udal, Andres; Kukk, Vello; Umbleja, Kadri 2014 International Conference on Signals and Electronic Systems (ICSES) : Poznań, Poland, 11-13 September 2014 2014 / [4] p. : ill

Improved C5D electronic realization of conductivity detector for capillary electrophoresis

Jaanus, Martin; Udal, Andres; Kukk, Vello; Umbleja, Kadri; Gorbatošova, Jelena; Mölder, Lauri Elektronika ir elektrotehnika = Electronics and electrical engineering 2016 / p. 29-32 : ill <https://doi.org/10.5755/j01.eie.22.3.15311> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improvised explosive devices in asymmetric conflicts : multisource data fusion for providing situational information

Preden, Jürjo-Sören; Mõtus, Leo; Llinas, James; Pahtma, Raido; Savimaa, Raul; Meriste, Merik; Astapov, Sergei Case studies in system of systems, enterprise systems, and complex systems engineering 2015 / p. 407-443 : ill

Incorporation of fractional-order dynamics into an existing PI/PID DC motor control loop

Tepljakov, Aleksei; Gonzales, Emmanuel A.; Petlenkov, Eduard; Belikov, Juri; Monje, Concepcion A.; Petraš, Ivo ISA transactions 2016 / p. 262-273 : ill <https://doi.org/10.1016/j.isatra.2015.11.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Indicators to compare simulated crisis management strategies

Engelbach, W.; Frings, S.; **Meriste, Merik** IDRC Davos 2014 "Integrative Risk Management - The Role of Science, Technology and Practice" : extended abstracts, oral presentations, special panels, sessions and workshops : 24-28 August 2014, Davos, Switzerland 2014 / p. 225-228 : ill

Industrial process monitoring by multi-channel acoustic signal analysis

Astapov, Sergei; Riid, Andri; Preden, Jürjo-Sören; Aruväli, Tanel 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

Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kolmanda aastakonverentsi artiklite kogumik : 25.-26. aprill 2008, Voore külalistemaja

2008 http://www.ester.ee/record=b2372764*est

Infotehnoloogia teaduskond

Gordon, Boris; Velmre, 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

Interactive distance lab solution for robotic arm

Umbleja, Kadri; Jaanus, Martin; Kukk, Vello; Udal, Andres Joint International Conference on Engineering Education & International Conference on Information Technology ICEE/ICIT-2014 : June 2-6, 2014, Riga, Latvia 2014 / p. 339-348 : ill

Interactive virtual world models for crisis preparedness - better than the real thing?

Havlik, Denis; Engelbach, Wolf; Erlich, Marc; **Meriste, Merik** The International Emergency Management Society -TIEMS- : Evolving Threats and Vulnerability Landscape : New Challenges for the Emergency Management : proceedings of the International Emergency Management Society (TIEMS), 22nd TIEMS Annual Conference, Rome, Italy, September 30 - October 2, 2015 2015 / [11] p

<http://publica.fraunhofer.de/documents/N-374904.html>

Interpretability improvement of fuzzy rule-based classifiers via rule compression

Riid, Andri; Preden, Jürjo-Sören International Joint Conference IFSA-EUSFLAT : June 30th - July 3rd, Gijon, Asturias (Spain)

2015 / p. 162-169 : ill <http://dx.doi.org/10.2991/ifs-eusflat-15.2015.26>

ISS0010 süsteemiteooria : ülesannete kogu

Gordon, Boris; Petlenkov, Eduard 2007 http://www.ester.ee/record=b2238345*est <https://digikogu.taltech.ee/et/Item/01a87d1c-157f-47d6-9e21-cbc0fe8429ea>

IT+haridus: EST_IT@2018 raport infotehnoloogia kasutamisest hariduses

Koita, Ene; Valk, Aune 2010 https://www.ester.ee/record=b2609460*est

Klassidiagrammide automaatpaigutus

Kuusik, Ago 1994 https://www.ester.ee/record=b2111062*est

Kompetentsipõhine õpe (neli aastat kogemust)

Kukk, Vello Tõhusa ja kaasahaarava õppe korraldamine kõrgkoolis : [õppemetoodiline konverents : konverentsi teesid : Kaitsevää Ühendatud Õppeasutused, 16. oktoober 2014, Tartu] 2014 / lk. 12-13

Kvant-IT : väljakutse info- ja kommunikatsioonitehnoloogia valdkonnale : ettekanne 51. automaatikapäeval 12. märtsil 2013 TTÜs

Udal, Andres Tallinna Tehnikaülikooli aastaraamat 2013 2014 / lk. 290-297 : ill

Küberkaitse komisjon

Mõtus, Leo Eesti Teaduste Akadeemia aastaraamat = Annales academiae scientiarum Estonicae 2014 2015 / lk. 37-38

Küberkaitse komisjon

Mõtus, Leo Eesti Teaduste Akadeemia aastaraamat = Annales academiae scientiarum Estonicae 2013 2014 / lk. 39-40

Laboratory experience with competence based learning

Umbleja, Kadri; Kukk, Vello; Jaanus, Martin; Švets, Oleg International Conference on Engineering Education and Research : ICEER 2013 : Marrakesh, July 1st-5th : proceedings 2013 / p. 487-494

Liitobjektide identifitseerimisest distantismeetodil : magistritöö

Sullakatk, Toomas 1992 https://www.ester.ee/record=b2629856*est

Lineaarsete mitmemõõtmeliste hilistumistega süsteemide identifitseerimine Laguerre'i jadade meetodil

Vool, Rein 1994 https://www.ester.ee/record=b4610164*est

LQG flight control of VTAV for enhanced situational awareness

Astrov, Igor; Pikkov, Mihhail; Paluoja, Rein World Academy of Science, Engineering and Technology. International journal of mechanical, industrial science and engineering 2013 / p. 981-986 : ill

Medical and context data acquisition system for patient home monitoring

Reilent, Enar; Lööbas, Ivor; Pahtma, Raido; Kuusik, Alar 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

A method of conceptual modelling for realistic training scenarios

Shvartsman, Inna; Taveter, Kuldar; Meriste, Merik ICAART 2013 - proceedings of the 5th International Conference on Agents and Artificial Intelligence, : Barcelona, Spain, 15-18 February, 2013. Volume 1 2013 / p. 443-446

A method of initial search region reduction for acoustic localization in distributed systems

Astapov, Sergei; Berdnikova, Julia; Preden, Jürjo-Sören Proceedings of the 20th International Conference Mixed Design of Integrated Circuits and Systems : MIXDES 2013, Gdynia, Poland, June 20-22, 2013 2013 / p. 451-456 : ill

The method of quantum optical communication based on entangled photon pairs

Udal, Andres; Jaanus, Martin; Umbleja, Kadri; Reeder, Reeno 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. 33-36 : ill

Middleware for exchange and validation of context data and information

Preden, Jürjo-Sören; Llinas, James; Mötus, Leo Context-enhanced information fusion : boosting real-world performance with domain knowledge 2016 / p. 205-230 : ill https://doi.org/10.1007/978-3-319-28971-7_9 [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Mid-IR DIAL for high-resolution mapping of explosive precursors

Mitev, Valentin M.; Babichenko, Sergey M.; Bennès, Jonathan; Borelli, Rodolfo; Dolfi-Bouteyre, Agnès; Fiorani, Luca; Hespel, Laurent; Huet, Thierry; Palucci, Antonio; Pistilli, Marco; Puiu, Adriana; Rebane, Ott; **Sobolev, Innokenti** Lidar technologies, techniques, and measurements for atmospheric remote sensing IX : 23 - 24 September 2013, Dresden, Germany 2013 / art. 88940S <https://doi.org/10.1117/12.2028374> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Military vehicle acoustic pattern identification by distributed ground sensors

Astapov, Sergei; Riid, Andri; Preden, Jürjo-Sören 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. 167-170 : ill http://www.ester.ee/record=b2150914*est

Millist inseneri vajab 21. sajandi Eesti?

Aarna, Olav Insenerikultuur Eestis. 3 1997 / lk. 5-7 https://www.ester.ee/record=b1063622*est

MIMO model of an industrial water boiler

Vansovitš, Vitali; Tepļakov, Aleksei; Belikov, Juri Doctoral School in Information and Communication Technology : proceedings of doctoral session of BEC 2014 : October 6-8 2014, Laulasmaa 2014 / p. 27-28 : ill

Model based control of a water tank system

Belikov, Juri; Petlenkov, Eduard Proceedings of the 19th IFAC World Congress, 2014 : Cape Town, South Africa, 24-29 August 2014 2014 / p. 10838-10843 : ill <https://doi.org/10.3182/20140824-6-za-1003.00695> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

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

Model-based testing of reactive systems = Reaktiivsete süsteemide mudelipõhine testimine

Kull, Andres 2009 https://www.ester.ee/record=b2539853*est

Modeling of a carbon nanotube junction with ab-initio software VASP

Velmre, Enn; Klopov, Mihhail; Udal, 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. 75-78 : ill

Modelling emergent behaviour of organisations : time-aware, UML and agent based approach = Ilmneva käitumise modelleerimine organisatsioonides : ajatundlik, UML ja agendipõhine lähenemine

Savimaa, Raul 2005 https://www.ester.ee/record=b2068668*est

Monitoring patient movement velocity using passive infrared sensor information

Ehala, Johannes; Astapov, Sergei Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK seitsmenda aastakonverentsi artiklite kogumik : 15.-16. novembril 2013, Haapsalu 2013 / p. 21-24 : ill

Motion control of an autonomous surface vessel for enhanced situational awareness

Astrov, Igor; Pikkov, Mihhail; Paluoja, Rein World Academy of Science, Engineering and Technology. International journal of mechanical, industrial science and engineering 2013 / p. 1203-1208 : ill

Motion control of vectored thrust aerial vehicle for enhanced situational awareness

Astrov, Igor; Pikkov, Mihhail; Paluoja, Rein Mathematical applications in science and mechanics : [proceedings of the conferences : Dubrovnik, Croatia, June 25-27, 2013] 2013 / p. 59-64 : ill

Multirate approaches for engineering applications : computational strategies

Astrov, Igor 2015 https://www.ester.ee/record=b4533492*est

A multistage procedure of mobile vehicle acoustic identification for single-sensor embedded device

Astapov, Sergei; Riid, Andri International journal of electronics and telecommunications 2013 / p. 151-160 : ill
<https://doi.org/10.2478/eletel-2013-0018> [Journal metrics at Scopus](#) [Article at Scopus](#)

Nanotechnology in military development

Pedai, Andrus; Astrov, Igor World Academy of Science, Engineering and Technology. International journal of chemical, nuclear, materials and metallurgical engineering 2014 / p. 1121-1125 : ill

Neural network based system for real-time organ recognition by analysis of sequence of endoscopic images received during surgical operation

Artemtšuk, Igor; Petlenkov, Eduard; Miyawaki, F.; Gladki, A. 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. 349-352 : ill

Neural network motion control of VTAV by NARMA-L2 controller for enhanced situational awareness

Astrov, Igor; Berezovski, Natalya International journal of computer, electrical, automation, control and information engineering 2015 / p. 1784-1788 : ill <http://scholar.waset.org/1999.4/10001781>

Neural networks based identification and control of nonlinear systems : ANARX model based approach

Petlenkov, Eduard 2007 https://www.ester.ee/record=b2315845*est

New concepts of automatic answer evaluation in competence based learning

Umbleja, Kadri; Kukk, Vello; Jaanus, Martin; Udal, Andres 2014 IEEE Global Engineering Education Conference (EDUCON) : Istanbul, Turkey, April 2-5, 2014 2014 / p. 922-925 : ill

NN-ANARX model based control of liquid level using visual feedback

Vassiljeva, Kristina; Tepljakov, Aleksei; Petlenkov, Eduard 2015 IEEE International Conference on Industrial Informatics (INDIN) : proceedings : Robinson College, Cambridge, United Kingdom, 22-24 July, 2015 2015 / p. 133-138 : ill
<http://dx.doi.org/10.1109/INDIN.2015.7281723>

NN-SANARX model based control of a multi tank liquid-level system

Belikov, Juri; Petlenkov, Eduard International journal of computational intelligence systems 2015 / p. 265-277
<https://doi.org/10.1080/18756891.2015.1001950> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Numerical aspects of the development of quantum cascade laser simulation software

Reeder, Reeno; Udal, Andres; Velme, Enn; Valavanis, Alexander 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. 37-40 : ill

Object detection for military surveillance using distributed multimodal smart sensors

Astapov, Sergei; Preden, Jürgo-Sören; Ehala, Johannes; Riid, Andri 2014 19th International Conference on Digital Signal Processing 2014 / p. 366-371 : ill

Observable canonical forms of multi-machine power systems using dq0 signals

Levron, Yoash; **Belikov, Juri** 2016 International Conference on the Science of Electrical Engineering (ICSEE) : November 16-18, 2016, Eilat, Israel 2016 / [5] p. : ill <https://doi.org/10.1109/ICSEE.2016.7806197>

On controllability of switched linear systems on time scales

Belikov, Juri; Tepljakov, Aleksei 2015 European Control Conference (ECC) : July 15-17, 2015, Linz, Austria 2015 / p. 1736-1741
<http://dx.doi.org/10.1109/ECC.2015.7330788>

On stable cones of polynomials via reduced Routh parameters

Nurges, Ülo; Belikov, Juri; Artemtšuk, Igor Kybernetika 2016 / p. 461-477 <https://doi.org/10.14736/kyb-2016-3-0461> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On-line data validation in distributed data fusion

Preden, Jürgo-Sören Proceedings of the Workshop on Future Internet Architectures for Military Networks : Oslo, Norway, 29-30 January 2014 2014

On-line data validation in distributed data fusion

Preden, Jürjo-Sören; Linas, James; Rogova, Galina; **Pahtma, Raido; Mõtus, Leo** Ground/air multisensor interoperability, integration, and networking for persistent ISR IV 2013 / p. 1-12 : ill <https://doi.org/10.1117/12.2016249> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

On-line identification and adaptive control of nonlinear systems using neural networks

Vassiljeva, Kristina; Rüstern, Ennu BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 149-152 : ill

Optimized acoustic localization with SRP-PHAT for monitoring in distributed sensor networks

Astapov, Sergei; Berdnikova, Julia; Preden, Jürjo-Sören International journal of electronics and telecommunications 2013 / p. 383-390 : ill <https://doi.org/10.2478/eletel-2013-0047> [Journal metrics at Scopus](#) [Article at Scopus](#)

Partner Network and its process management

Kangilaski, Taivo; Poljantšikov, Igor; Ševtšenko, Eduard ICINCO 2013 : proceedings of the 10th International Conference on Informatics in Control, Automation and Robotics : Reykjavik, Iceland, 29-31 July, 2013. Vol. 2 2013 / p. 519-527

Performing acoustic localization in a network of embedded smart sensors

Astapov, Sergei; Ehala, Johannes; Preden, Jürjo-Sören International journal of microelectronics and computer science 2015 / p. 86-95 : ill

Performing feature extraction and selection for pattern discovery in noisy acoustic data

Astapov, Sergei; Riid, Andri; Preden, Jürjo-Sören Doctoral School in Information and Communication Technology : proceedings of doctoral session of BEC 2014 : October 6-8 2014, Laulasmaa 2014 / p. 3-6 : ill

Planning virtual organization in partner network

Kangilaski, Taivo 2014 IEEE International Conference on Industrial Technology (ICIT) : February 26-March 1, 2014, Busan, Korea 2014 / p. 664-669 <https://doi.org/10.1109/ICIT.2014.6894910> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Practical evaluation of two-layer perceptrons optimal architecture for identification of 2-nd and 3-d order nonlinear dynamic discrete time SISO systems

Kondratjeva, Julija; Petlenkov, Eduard 5th Junior European Meeting on Control & Information Technology : September 20-22, 2006, Tallinn, Estonia : book of abstracts 2006 / p. 16-17

Predictive acoustic localization and speaker tracking for distributed sensor networks

Astapov, Sergei; Berdnikova, Julia; Preden, Jürjo-Sören 2014 13th International Conference on Control, Automation, Robotics & Vision (ICARCV 2014) : Marina Bay Sands, Singapore, 10-12th December 2014 2014 / p. 833-838 : ill

Proactive approach to innovation management

Pedai, Andrus; Astrov, Igor World Academy of Science, Engineering and Technology. International journal of social, education, economics and management engineering 2014 / p. 2241-2245 : ill

Processing multiple-item answers to identify abilities related to competences

Kukk, Vello Innovations 2014 : world innovations in engineering education and research 2014 / p. 101-108

Quantum mechanical transforms between x- and k-space as a signal processing problem

Udal, Andres; Kukk, Vello; Velme, Enn; Klopov, Mihhail 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. 71-74 : ill https://www.ester.ee/record=b2150914*est

Raadiosagedusliku võimsusdetektori disain

Koort, Marko Elektroonika 2004 : XI rahvusvahelise telekommunikatsioonipäeva materjalid 2004 / lk. 57-67 : ill https://www.ester.ee/record=b1910557*est

Recent progress in development of the resonant tunneling diode sources for the critical part of THz gap

Udal, Andres; Jaanus, Martin; Valušis, Gintaras; Kašalynas, Irmantas; Ikonic, Zoran; Indjin, Dragan 4th Annual Conference of COST Action MP1204 & SMMO2016 Conference : Lisbon, Portugal, 21-24 March 2016 2016 / [1] p

Reducing bandwidth requirements and optimizing data flow in distributed data acquisition and processing

Preden, Jürjo-Sören; Mõtus, Leo; Pahtma, Raido; Meriste, Merik Proceedings of the 2013 IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support (CogSIMA) 2013 / p. 175-182 : ill

Reflection segments based robust PID controller solution for benchmark problem

Avanessov, Sergei; Nurges, Ülo 2014 22nd Mediterranean Conference on Control and Automation (MED) : University of Palermo, June 16-19, 2014, Palermo, Italy 2014 / p. 1406-1411 : ill

Research Laboratory for Proactive Technologies : Department of Computer Control, Tallinn University of Technology : annual report 2009

2010 https://www.ester.ee/record=b2487393*est

Research Laboratory for Proactive Technologies, Department of Computer Control, Tallinn University of Technology : annual report 2008

2009 http://www.ester.ee/record=b2508511*est

Resonant tunneling devices as the promising sources in THz gap bottom for the security imaging and detection

Udal, Andres; Valusis, G.; Kasalynas, I.; Ikonic, Zoran; Indjin, D. Abstract book of Tera-MIR 2015 : NATO Advanced Research Workshop on THz Diagnostics of CBRN Effects and Detection of Explosives & CBRN : Izmir, Turkey, 3-6 November 2015 2015 / p. 65

Restricted connectivity neural network structure for organ recognition by analysis of endoscopic images during surgical operation

Petlenkov, Eduard; Artemtšuk, Igor; Miyawaki, F.; Yoshimitsu, Kitaro 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. 261-264 : ill

Restricted connectivity neural networks based identification for control = Piiratud ühenduvusega tehishärvivõrkudel põhinev identifitseerimine juhtimiseks

Vassiljeva, Kristina 2012

RF power amplifier control curve approximation

Koort, Marko The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 71-74 : ill

Robust FOPI and FOPID controller design for FFOPDT plants in embedded control applications using frequency-domain analysis

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri 2015 American Control Conference : Hilton Palmer House, Chicago, IL, July 1-3, 2015 2015 / p. 3868-3873 : ill <https://doi.org/10.1109/ACC.2015.7171933> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Robust pole assignment via Routh rays of polynomials

Artemtšuk, Igor; Nurgas, Ülo; Belikov, Juri 2016 American Control Conference (ACC) : July 6-8, Boston, MA, USA 2016 / p. 7031-7036 : ill <https://doi.org/10.1109/ACC.2016.7526781> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Saateks

Aarna, Olav Hariduse roll Eesti ühiskonna arengu kujundajana : ettekannete ja sõnavõtte kogumik : Eesti Haridusfoorum '98 : 20.-21. nov. 1998, Haapsalu 1999 / lk. 7-8 https://www.ester.ee/record=b1336192*est

Self-scaling laboratory crane fuzzy logic control with anti-swing regulation [Online resource]

Aksjonov, Andrei; Vodovozov, Valery; Petlenkov, Eduard 2016 57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : October 13, 14, 2016 : conference proceedings 2016 / [6] p. : ill <https://doi.org/10.1109/RTUCON.2016.7763088>

Sharing confidential commercial information for ensuring availability of critical infrastructure : technology opportunities and perspectives

Preden, Jürjo-Sören Energy security forum 2013 / p. 23-27 : ill

Shooter localization by networked multichannel acoustic ground sensors

Astapov, Sergei; Berdnikova, Julia; Ehala, Johannes; Preden, Jürjo-Sören 2015 IEEE International Conference on Signal and Image Processing Applications (ICSIPA) : Kuala Lumpur, Malaysia, 19-21 October 2015 : [proceedings] 2015 / p. 332-337 : ill <http://dx.doi.org/10.1109/ICSIPA.2015.7412214>

Shooter localization by networked multichannel acoustic ground sensors

Astapov, Sergei; Berdnikova, Julia; Ehala, Johannes; Preden, Jürjo-Sören IEEE ICSIPA 2015 : 2015 IEEE International Conference on Signal and Image Processing Applications (ICSIPA) : 19-21 October, 2015, Hotel Pullman Kuala Lumpur Bangsar : program book 2015 / p. 46

Simplified acoustic localization by linear arrays for wireless sensor networks

Astapov, Sergei; Preden, Jürjo-Sören; Berdnikova, Julia 2013 18th International Conference on Digital Signal Processing (DSP) : 1-3 July 2013, Nomikos Conference Centre, Santorini, Greece 2013 / [6] p. : ill

Simulating System of Systems using MACE

Tomson, Timo; Preden, Jürjo-Sören UKSim 15th International Conference on Computer Modelling and Simulation : 10-12 April

2013, Cambridge, United Kingdom : proceedings 2013 / p. 155-160 : ill

Simulation and estimation of electrochemical processes in maintenance-free batteries with fixed electrolyte

Tenno, Ander 2004 https://www.ester.ee/record=b1994218*est

Simulations in multi-agent communication system = Simulatsioonid multiagentsüsteemis

Kimlaychuk, Vadim 2012 https://www.ester.ee/record=b2869082*est

Simulations tool for crisis management strategies and planned actions V2 [Electronic resource]

Taveter, Kuldar; Scholl, Martin; Schlobinski, Sascha; Ma, Lixin; Meriste, Merik 2014

http://www.crismaproject.eu/deliverables/CRISMA_D443_public.pdf

Situational awareness based neural flight control of a coaxial rotor/ducted-fan helicopter

Astrov, Igor; Pikkov, Mihhail; Paluoja, Rein Recent advances in systems science : proceedings of the 17th International Conference on Systems (part of CSCC '13) : Rhodes Island, Greece, July 16-19, 2013 2013 / p. 54-59 : ill

Smart dust

Preden, Jürjo-Sören Integrated systems and design : interstudy, May 9, 2008 2008 / p. 47-53 : ill

Solving big data : distributing computation among smart devices

Preden, Jürjo-Sören; Pahtma, Raido; Tomson, Timo; Mõtus, Leo Databases and Information Systems : proceedings of the 11th International Baltic Conference, Baltic DB&IS 2014 : Tallinn, Estonia, 8-11 June, 2014 2014 / p. 269-280 : ill

Solving big data : distributing computation among smart devices

Preden, Jürjo-Sören; Pahtma, Raido; Tomson, Timo; Mõtus, Leo Databases and information systems VIII : selected papers from the Eleventh International Baltic Conference, DB&IS 2014 2014 / p. 245-258 : ill <https://doi.org/10.3233/978-1-61499-458-9-245>
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Sound localization and processing for inducing synesthetic experiences in virtual reality

Tepljakov, Aleksei; Astapov, Sergei; Petlenkov, Eduard; Vassiljeva, Kristina; Draheim, Dirk 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. 159-162 : ill http://www.ester.ee/record=b2150914*est

Stable cones of polynomials via Routh rays

Artemtšuk, Igor; Nurges, Ülo; Belikov, Juri; Kaparin, Vadim Proceedings of the 2015 20th International Conference on Process Control (PC) : Hotel Sorea Trigan Banik, Štrbske Pleso, Slovakia, June 9-12, 2015 2015 / p. 255-260 : ill
<http://dx.doi.org/10.1109/PC.2015.7169972>

Stable cones of polynomials via Routh rays

Artemtšuk, Igor; Nurges, Ülo; Belikov, Juri; Kaparin, Vadim 20th International Conference on Process Control 2015 : June 9-12, 2015, Štrbske Pleso, Slovak Republic : summaries volume 2015 / p. 33

Standing Committee on Cyber Security

Mõtus, Leo Estonian Academy of Sciences year book = Annales Academiae Scientiarum Estonicae 2013 2014 / p. 44-45

Standoff detection : classification of biological aerosols using laser induced fluorescence (LIF) technique

Hausmann, Anita; Duschek, Frank; Sobolev, Innokenti Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) Sensing XV 2014

Student's behavior in free learning environment and formal education system

Kukk, Vello Learning technology for education in Cloud : MOOC and Big Data : third International Workshop, LTEC 2014, Santiago, Chile, September 2-5, 2014 : proceedings 2014 / p. 187-194 https://doi.org/10.1007/978-3-319-10671-7_19 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Students' grading control and visualisation in competence-based learning approach

Umbleja, Kadri Proceedings of 2015 IEEE Global Engineering Education Conference (EDUCON) : 18-20 March 2015, Tallinn University of Technology (TUT), Tallinn, Estonia 2015 / p. 287-296 : ill <http://dx.doi.org/10.1109/EDUCON.2015.7095985>

Süsteemiteooria : ISS0010

Sillamaa, Hanno 2003 http://www.ester.ee/record=b1733987*est

Synthesis of digital filters for embedded fractional-order control applications

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK seitsmenda aastakonverentsi artiklite kogumik : 15.-16. novembril 2013, Haapsalu 2013 / p. 103-106 : ill

System identification models and using neural networks for Ground Source Heat Pump with ground temperature modeling [Electronic resource]

Köse, Ahmet; Petlenkov, Eduard 2016 International Joint Conference on Neural Networks (IJCNN) : 24-29 July 2016, Vancouver, Canada 2016 / p. 2850-2855 : ill. [USB] <https://doi.org/10.1109/IJCNN.2016.7727559>

A system of systems solution for perimeter control : combining unmanned aerial system with unattended ground sensor network

Kaugerand, Jaanus; Preden, Jürjo-Sören; Suurjaak, Erki; Astapov, Sergei; Mõtus, Leo; Pahtma, Raido 9th Annual IEEE International Systems Conference : April 13-16, 2015, Vancouver, British Columbia, Canada : proceedings 2015 / p. 317-323 : ill <https://doi.org/10.1109/SYSCON.2015.7116770>

Taevarahvas : Poul Andersoni parimad jutud

Anderson, Poul 2008 https://www.ester.ee/record=b2335964*est

Tarkvaramahukate süsteemide integreerimise teooria ja tehnoloogia arengust

Mõtus, Leo; Serg, Risto Elektroonika 2004 : XI rahvusvahelise telekommunikatsioonipäeva materjalid 2004 / lk. 79-84 : ill https://www.ester.ee/record=b1910557*est

Teadusest automaatikainstituudis ja maailmas : [ettekanne 48. automaatikapäeval reedel, 12. märtsil 2010, üritusel "Automaatikainstituut 50"]

Mõtus, Leo Tallinna Tehnikaülikooli aastaraamat 2010 2011 / lk. 111-114 https://www.ester.ee/record=b1212786*est

Teadusest ja ühiskonnast, subjektiivselt

Mõtus, Leo Teadusmõte Eestis (VIII). Teaduskultuur : [artiklikogumik] 2013 / lk. 38-45 : fot https://www.ester.ee/record=b2230239*est

The benefits of self-awareness and attention in fog and mist computing

Preden, Jürjo-Sören; Tammemäe, Kalle; Jantsch, Axel; Leier, Mairo; Riid, Andri; Calis, Emine Computer 2015 / p. 37-45 : ill <https://doi.org/10.1109/MC.2015.207> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The first year experience of using LEGO Mindstorms robots in the Tallinn University of Technology outreach program for secondary and primary school learners

Umbleja, Kadri New Technologies and Innovation for Global Business : ICEE 2015 : proceedings of 19th International Conference on Engineering Education, 20-24 July 2015, Zagreb, Croatia 2015 / p. 741-748

The interactive learning environment for mobile laboratories = Interaktiivne õpikeskkond mobiilsetele laboritele

Jaanus, Martin 2011

Towards an Intelligent Control System for district heating plants : design and implementation of a fuzzy logic based control loop

Vansovitš, Vitali; Tepļakov, Aleksei; Vassiljeva, Kristina; Petlenkov, Eduard 2016 IEEE 14th International Conference on Industrial Informatics (INDIN) : Palais des Congrès du Futuroscope, Futuroscope - Poitiers, France, 19-21 July, 2016 : proceedings 2016 / p. 405-410 : ill <https://doi.org/10.1109/INDIN.2016.7819193>

Training support for crisis managers with elements of serious gaming

Havlik, Denis; Deri, Oren; Rannat, Kalev; Warum, Manuel; Rafalowski, Chaim; Taveter, Kuldar; Kutschera, Peter; Meriste, Merik Environmental Software Systems : Infrastructures, Services and Applications : 11th IFIPWG 5.11 International Symposium, ISESS 2015, Melbourne, VIC, Australia, March 25-27, 2015 : proceedings 2015 / p. 217-225 : ill http://dx.doi.org/10.1007/978-3-319-15994-2_21

Transmitter power control in wireless communication systems = Saatja võimsuse juhtimine traadita sidesüsteemis

Koort, Marko 2005 https://www.ester.ee/record=b2063838*est

Transparency enhancement of first order Takagi-Sugeno systems: promoting of the competition between the rules by controlling the overlap of input fuzzy sets

Riid, Andri; Isotamm, Raul; Rüstern, Ennu BEC 2002 : proceedings of the 8th Biennial Baltic Electronics Conference : October 6-9, 2002, Tallinn, Estonia 2002 / p. 137-140 : ill

Transparent fuzzy systems : modeling and control

Riid, Andri 2002 https://www.ester.ee/record=b1646015*est

Tulevikuvaade tööjõu- ja oskuste vajadusele : arvestusala : uuringu lühiversioon

2016 http://www.ester.ee/record=b4573863*est

Tulevikuvaade tööjõu- ja oskuste vajadusele : info- ja kommunikatsioonitehnoloogia : uuringu lühiversioon

2016 http://www.ester.ee/record=b4573867*est

Tuning and digital implementation of a fractional-order PD controller for a position servo

Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri; Astapov, Sergei International journal of microelectronics and computer science 2013 / p. 116-123 : ill

Two-dimensional knowledge model for learning control and competence mapping

Kukk, Vello; Umbleja, Kadri; Jaanus, Martin Learning Technology for Education in Cloud : 4th International Workshop, LTEC 2015, Maribor, Slovenia, August 24-28, 2015 : proceedings 2015 / p. 16-27 : ill https://doi.org/10.1007/978-3-319-22629-3_2 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Two-rate LQG control of VTAV for enhanced situational awareness

Astrov, Igor Recent advances in circuits, systems, signal processing and communications : proceedings of the 8th WSEAS International Conference on Circuits, Systems, Signal and Telecommunications (CSST '14) : Tenerife, Spain, January 10-12, 2014 2014 / p. 163-168 : ill

Two-rate motion control of VTAV by NARMA-L2 controller for enhanced situational awareness [Electronic resource]

Astrov, Igor 2016 39th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO) : May 30-June 3, 2016, Opatija, Croatia : proceedings 2016 / p. 1126-1131 : ill. [CD-ROM] <https://doi.org/10.1109/MIPRO.2016.7522309>

Two-rate neural predictive control of coaxial rotor/ducted-fan UAV for enhanced situational awareness

Astrov, Igor; Berezovski, Natalya; Pikkov, Mihhail; Kimlaychuk, Vadim International Conference on Information Society (i-Society 2015) : London, UK, November 9-11, 2015 2015 / p. 127-132 : ill <http://dx.doi.org/10.1109/i-Society.2015.7366873>

Using microcontrollers for high accuracy analogue measurements

Jaanus, Martin; Udal, Andres; Kukk, Vello; Umbleja, Kadri Elektronika ir elektrotehnika = Electronics and electrical engineering 2013 / p. 51-54 : ill <https://doi.org/10.5755/j01.eee.19.6.4559> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Uuenduslik tootmine : käsiraamat

Riives, Jüri; Lumiste, Rünno; Reedik, Vello; Roosimölder, Lembit; Karjust, Kristo; Kers, Jaan; Kiolein, Indrek; Kokla, Margo; Küttner, Rein; Lavin, Jaak; Lavrentjev, Jüri; Lõun, Kaia; Mõtus, Leo; Naams, Invar; Otto, Tauno; Pohlak, Meelis; Raba, Karl; Saks, Alo; Talkop, Adolf; Tähemaa, Toivo; Veinthal, Renno 2011 http://www.ester.ee/record=b2736534*est

Validated simulation tool for crisis management strategies and planned actions [Electronic resource]

Taveter, Kuldar; Meriste, Merik; Rannat, Kalev; Jähi, Markus; Dihe, Pascal; Scholl, Martin; Guarino, Sergio 2015 http://www.crismaproject.eu/deliverables/CRISMA_D444_public.pdf

Version 2 of Model for Decision-making assessment, and Economic impacts and consequences [Electronic resource]

Engelbach, Wolf; Frings, Sandra; Sautter, Johannes; **Taveter, Kuldar; Ma, Lixin; Meriste, Merik** 2014 http://www.crismaproject.eu/deliverables/CRISMA_D442_public.pdf

Why do students choose to study information and communications technology?

Kori, Külli; Pedaste, Margus; Niitsoo, Margus; **Kuusik, Rein, inform.; Murtazin, Kristina; Paluoja, Rein** Procedia - social and behavioral sciences 2015 / p. 2867-2872 <http://dx.doi.org/10.1016/j.sbspro.2015.04.249>

Vivat, crescat, floreat Universitas Technicorum Tallinensis! : [kõne rektoriametist lahkumisel]

Aarna, Olav Tehnikaülikool 2000 / 20. märts, lk. 9-10 : portr https://www.ester.ee/record=b5309277*est

Võimsuse juhtimine GSM-mobiiltelefonis

Koort, Marko Elektroonika 2000 : VII rahvusvahelise telekommunikatsioonipäeva konverentsi ettekannete materjalid 2000 / lk. 57-67 : ill https://www.ester.ee/record=b1399956*est

Välisvalgustuse juhtimislahenduste tööpõhimõtetest

Võrk, Alar; **Preden, Jürjo-Sören** Elektriala 2013 / lk. 8-10 : ill

Väljakutsed küber-füüsiliste süsteemide loomisel

Preden, Jürjo-Sören Inseneeria 2011 / lk. 36-37 : ill https://artiklid.elnet.ee/record=b2369619*est https://www.ester.ee/record=b1519314*est

Õpetajakeskne õppijakesksus

Kukk, Vello Õpetajate Leht 2011 / lk. 7 https://artiklid.elnet.ee/record=b2420072*est

Õppimine või ära tegemine

Jaanus, Martin; Kukk, Vello Tõhusa ja kaasahaarava õppe korraldamine kõrgkoolis : [õppemetoodiline konverents : konverentsi teesid : Kaitseväge Ühendatud Õppeasutused, 16. oktoober 2014, Tartu] 2014 / lk. 35-36

Üldkogu aastakoosolek 18. aprillil 2012 : [ka Eesti TA Informaatika ja Tehnikateaduste Osakonna juhataja Tarmo Soomere, peasekretär Leo Mõtuse ja asepresident Jüri Engelbrechti ettekanded]
Soomere, Tarmo; Mõtus, Leo; Engelbrecht, Jüri Eesti Teaduste Akadeemia aastaraamat = Annales academiae scientiarum Estonicae 2012 2013 / lk. 58-77

Управление вычислительным процессом при машинном проектировании электронных схем : диссертация на соискание ученой степени кандидата технических наук
Vendelin, Jelena 1985 https://www.ester.ee/record=b4635004*est