

A quadratic programming approach to output and robust controller design

Nurges, Ülo; Rüstern, Ennu Proceedings of the 3rd International Conference on Control Theory and Applications : Pretoria, South Africa, December 2001 2001 / p. 113-117

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 frequency control in the phase synchronization measurement system

Min, Mart; Rüstern, Ennu; Ronk, Ants; Sillamaa, Hanno Preprints 11th IFAC World Congress "Automatic Control in the Service of Mankind" : Tallinn, Estonia, USSR, August 13-17, 1990. Vol. 4 1990 / p. 161-167

An integrated approach for the identification of compact, interpretable and accurate Fuzzy rule-based classifiers from data

Riid, Andri; Rüstern, Ennu INES 2011 : 15th International Conference on Intelligent Engineering Systems : June 23–25, 2011, Poprad, Slovakia 2011 / p. 101-107 : ill <https://ieeexplore.ieee.org/document/5954728>

Analoog-digitaal- ja digitaal-analoogmuundurid : õppevahend

Sillamaa, Hanno; Rüstern, Ennu 1983 https://www.ester.ee/record=b1255437*est

Automaatika ja süsteemitehnika instituut

Mõtus, Leo; Rüstern, Ennu Teadustegevus / TTÜ 1993 / lk. 73-74

Automaatikapäevade traditsioonist [TTÜs]

Rüstern, Ennu Mente et Manu 2002 / 26. märts, lk. 3 https://www.ester.ee/record=b1242496*est

Automatic linguistic inversion of a fuzzy model for fed-batch fermentation control

Riid, Andri; Leibak, Alar; Rüstern, Ennu Proc. 2006 International Conference on Intelligent Engineering Systems : INES, London, 26-28 June 2006 2006 / p. 129-134
https://www.researchgate.net/publication/224646300_Automatic_Linguistic_Inversion_of_a_Fuzzy_Model_for_Fed-Batch_Fermentation_Control

Calculation of the group delay from Laguerre series

Kukk, Vello; Rüstern, Ennu Труды по электротехнике и автоматике : сборник статей. 10 1972 / с. 91-96
https://www.ester.ee/record=b2190520*est <https://digikogu.taltech.ee/et/Item/49449c41-8f8a-4846-93fd-8f149889ec73>

Car navigation and collision avoidance system with fuzzy logic

Riid, Andri; Pahhomov, Dmitri; Rüstern, Ennu 2004 IEEE International Conference on Fuzzy Systems : proceedings : Budapest, Hungary, 25-29 July, 2004. Vol. 3 2004 / p. 1443-1448 : ill <https://ieeexplore.ieee.org/document/1375386>

Comparative analysis of two types of models for multirate linear multivariable discrete-time control systems

Astrov, Igor; Rüstern, Ennu Proceedings of the 13th International Conference "Systems for Automation of Engineering and Research" (SAER'99) : Varna, Bulgaria, September 18-19, 1999 1999 / p. 44-48

Comparison of fuzzy function approximators

Riid, Andri; Rüstern, Ennu BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 139-142: ill

Computational intelligence methods for process control : fed-batch fermentation application

Riid, Andri; Rüstern, Ennu International journal of computational intelligence in bioinformatics and systems biology 2009 / 2, p. 135-162 https://www.academia.edu/19788077/Computational_intelligence_methods_for_process_control_fed_batch_fermentation_application

Decentralization of stochastic multivariable discrete-time control systems on two-rate aggregative subsystems

Astrov, Igor; Rüstern, Ennu Proc. 14th International Conf. Systems for Automation of Engineering and Research 2000 / p. 57-61

Decentralized partitioning and simulation of three-rate stochastic multidimensional continuous-time state-space models

Astrov, Igor; Em, Juri; Pedai, Andrus; Rüstern, Ennu Proc. 4th Portuguese Conference on Automatic Control (CONTROLO'2000) 2000 / p. 226-231

Decentralized partitioning of centralized controller on three-rate subcontrollers for the multidimensional stochastic state-space continuous-time model of an experimental aircraft

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu Proc. 14th International Conf. Systems for Automation of Engineering and Research 2000 / p. 62-66

Decomposition of stochastic multivariable continuous-time control systems in state space on three-rate autonomous subsystems

Astrov, Igor; Em, Juri; Rüstern, Ennu Proceedings of the 12th International Conference on Systems for Automation of Engineering and Research (SAER'98) : 19-20 September 1998, Varna - St. Konstantin resort, Bulgaria 1998 / p. 29-33

Decomposition of stochastic multivariable discrete-time control systems on autonomous subsystems with various rates of transients

Astrov, Igor; Rüstern, Ennu Proceedings of the 12th International Conference on Systems for Automation of Engineering and Research (SAER'98) : 19-20 September 1998, Varna - St. Konstantin resort, Bulgaria 1998 / p. 39-43

Department of Automation and System Engineering

Sillamaa, Hanno; Kukk, Vello; Väljamäe, Gunnar; Aarna, Olav; Annus, Arno; Kiitam, Andres; Rüstern, Ennu; Mõtus, Leo; Rüstern, Ennu Research activities / Tallinn Technical University 1993 / p. 69-72 https://www.ester.ee/record=b1053754*est

Depth control of an autonomous underwater vehicle in situational awareness a mission [Electronic resource]

Astrov, Igor; Rüstern, Ennu ICROS-SICE 2009 proceedings : ICROS-SICE International Joint Conference 2009 : Fukuoka, Japan, August 18-21, 2009 2009 / p. 560-564 [DVD-ROM]

Depth multirate control of an autonomous underwater vehicle for enhanced situational awareness [Electronic resource]

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu RoViSP'09 CD-ROM proceedings : 7th International Conference on Robotics, Vision, Signal Processing and Power Applications "Sustaining Engineers of Tomorrow" : Awana Porto Malai, Langkawi Island, Malaysia, December 19-20, 2009 2009 / [8] p. [CD-ROM]

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 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 of two-rate decentralized linear quadratic regulators for continuous-time stochastic multivariable control systems

Astrov, Igor; Em, Juri; 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. 273-276 : ill

Design of two-rate stochastic multivariable continuous-time control systems: autonomous isolated subsystems with various rates of transients

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. 321-324: 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

Desired trajectory generation of a quadrotor helicopter using hybrid control for enhanced situational awareness

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu Proceedings of the 2010 IEEE International Conference on Information and Automation : June 20-23, Harbin, China 2010 / p. 1003-1007 : ill <https://ieeexplore.ieee.org/document/5512295>

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

Enhancing situational awareness through multirate control of an autonomous underwater vehicle

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu Proceedings of the 2009 IEEE International Conference on Mechatronics and Automation : August 9-12, Changchun, China 2009 / p. 1184-1189 : ill <https://ieeexplore.ieee.org/document/5246459?reload=true&arnumber=5246459>

Ennu Rüstern 60 : [intervjuu Ennu Rüsterniga]

Rüstern, Ennu; Ummelas, Mart Mente et Manu 2006 / 18. jaan., lk. 4 : fot. (Vivat!) https://www.ester.ee/record=b1242496*est

Error-free simplification of transparent Mamdani systems

Riid, Andri; Saastamoinen, Kalle; Rüstern, Ennu 2008 / p. 2-8 - 2-13 <https://ieeexplore.ieee.org/document/4670399>

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

Extracting and exploiting linguistic information from a Fuzzy process model for bed-batch fermentation control

Riid, Andri; Rüstern, Ennu Intelligent engineering systems and computational cybernetics. III 2009 / p. 95-105

https://www.researchgate.net/publication/226373084_Extracting_and_Exploiting_Linguistic_Information_from_a_Fuzzy_Process_Model_for_Fed-Batch_Fermentation_Control

Fed-batch fermentation controller design with evolutionary computation

Riid, Andri; Rüstern, Ennu CSTST '08 Proceedings of the 5th international conference on Soft computing as transdisciplinary science and technology 2008 / p. 371-377 : ill

Fingerprint recognition for distorted image applications using three-rate hybrid Kohonen neural network

Astrov, Igor; Tatarly, Sergei; Tatarly, Svetlana; Rüstern, Ennu Mathematical Methods and Computational Techniques in Research and Education : 7th WSEAS International Conference on Wavelet Analysis and Multirate Systems (WAMUS'07) : Arcachon, France, October 13-15, 2007 2007 / p. 122-126 <https://dl.acm.org/doi/abs/10.5555/1974885.1974887>

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

Fuzzy knowledge-based control for backing multi-trailer systems

Riid, Andri; Ketola, J.; Rüstern, Ennu Proceedings of the IEEE Intelligent Vehicles Symposium (IV'07) : Istanbul, 13-15 June, 2007 2007 / p. 498-504 <https://ieeexplore.ieee.org/document/4290164>

Fuzzy logic in control : truck backer-upper problem revisited

Riid, Andri; Rüstern, Ennu The 10th IEEE International Conference on Fuzzy Systems : Melbourne, Australia, December 2001. Volume 1 2001 / [4] p. : ill <https://www.semanticscholar.org/paper/Fuzzy-logic-in-control%3A-truck-backer-upper-problem-Riid-R%C3%BCstern/a3aff429485b23df6fa100139e71f0e0345165eb>

Fuzzy logic in simulation of Lockheed L1011 aircraft three-rate model

Astrov, Igor; Rüstern, Ennu IFAC Conference on New Technologies for Computer Control : NTCC 2001 : 19-22 November 2001, Hong Kong : final program and abstracts 2001 / p. 516-521 : ill <https://www.sciencedirect.com/science/article/pii/S1474667017329920>

Fuzzy modelling and control of fed-batch fermentation

Riid, Andri; Rüstern, Ennu Computational intelligence and applications 1999 / p. 283-291

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

Gradient descent based optimization of transparent Mamdani systems

Riid, Andri; Rüstern, Ennu Proc. 6th Int. Conf. on Neural Networks and Soft Computing 2002, Zakopane 2002 / p. 545-550 https://link.springer.com/chapter/10.1007/978-3-7908-1902-1_83

Graduate School in Information and Communication Technologies : experiences at Tallinn University of Technology

Jervan, Gert; Kruus, Margus; Rüstern, Ennu Proceedings MSE 2007 : 2007 IEEE International Conference on Microelectronic Systems Education : 3-4 June 2007, San Diego, CA 2007 / p. 25-26

Heuro-fuzzy extraction of interpretable fuzzy rules from data

Riid, Andri; Rüstern, Ennu 2004 IEEE International Conference on Systems, Man & Cybernetics : The Hague, Netherlands, 10-13 October, 2004. Vol. 3 2004 / p. 2266-2271 : ill https://www.researchgate.net/profile/E-Rustern/publication/4126700_Heuro-fuzzy_extraction_of_interpretable_fuzzy_rules_from_data/links/00463524db07f8c32e000000/Heuro-fuzzy-extraction-of-interpretable-fuzzy-rules-from-data.pdf

Identification of numerically accurate first-order Takagi-Sugeno systems with interpretable local models from data

Riid, Andri; Rüstern, Ennu Journal of advanced computational intelligence and intelligent informatics 2005 / 5, p. 526-533

Identification of transparent, compact, accurate and reliable linguistic fuzzy models

Riid, Andri; Rüstern, Ennu Information sciences 2011 / p. 4378-4393 <https://www.sciencedirect.com/science/article/pii/S0020025511000685>

Interpretability improvement of Fuzzy systems : reducing the number of unique singletons in Zeroth order Takagi-Sugeno systems

Riid, Andri; Rüstern, Ennu WCCI 2010 IEEE World Congress on Computational Intelligence : July, 18-23, Barcelona, Spain : proceedings 2010 / p. 2913-2018 : ill <https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=2d2002fb7518da488fde49a2eeeb7a109438a04c>

Interpretability of Fuzzy Systems and its application to process control

Riid, Andri; Rüstern, Ennu Proceedings of the 2007 IEEE International Conference on Fuzzy Systems : FUZZ-IEEE 2007 : London, 23.-26. July 2007 2007 / [6] p <https://ieeexplore.ieee.org/document/4295370>

Interpretability versus adaptability in fuzzy systems

Riid, Andri; Rüstern, Ennu Proceedings of the Estonian Academy of Sciences. Engineering 2000 / 2, p. 76-95 : ill https://artiklid.elnet.ee/record=b1004039*est

Interpretability, interpolation and rule weights in linguistic Fuzzy modeling

Riid, Andri; Rüstern, Ennu Fuzzy Logic and Applications : 9th International Workshop, WILF 2011 : Trani, Italy, August 29-31, 2011 : proceedings 2011 / p. 91-98 : ill https://link.springer.com/chapter/10.1007/978-3-642-23713-3_12

Lineaarse süsteemi parameetrite optimeerimise algoritmide uurimine

Matskin, M.; Rüstern, Ennu XXIX vabariiklik üliõpilaste teaduslik- tehniline konverents 30. märtsist - 1. aprillini 1977 : ettekannete teesid 1977 / lk. 48 https://www.ester.ee/record=b2449987*est

Lineaarsete mitmemõõtmeliste hilistumistega süsteemide identifitseerimine Laguerre'i jadade meetodil

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

Low-quality fingerprint recognition using three-rate hybrid Kohonen neural network [Electronic resource]

Astrov, Igor; Tatarly, Sergei; Tatarly, Svetlana; Rüstern, Ennu Proceedings of the 6th International Conference on Information, Communications and Signal Processing : ICICS 2007 : Singapore, December 10-13, 2007 2007 / [5] p. [CD-ROM] <https://ieeexplore.ieee.org/document/4449586>

A method for heuristic fuzzy modeling in noisy environment

Riid, Andri; Rüstern, Ennu 5th IEEE International Conference on Intelligent Systems (IS 2010) : London, 7-9 July 2010 : proceedings 2010 / p. 468-473 : ill <https://ieeexplore.ieee.org/document/5548337>

Modelling and simulation of two-rate state-space models for stochastic multivariable continuous-time control systems

Astrov, Igor; Rüstern, Ennu CSCS-12 : 12th International Conference on Control Systems and Computer Science : proceedings : May 26-29, 1999, Bucharest, Romania. Vol. 1 1999 / p. 103-108

Modelling of multirate multivariable control systems : a state-space approach : thesis submitted to Tallinn Technical University in candidature for the degree of Doctor of Philosophy in Engineering

Astrov, Igor 2000 http://www.ester.ee/record=b1707861*est

Mõningate sageduskarakteristikute aproksimeerimise algoritmide uurimine

Leonavitsius, R.; Rüstern, Ennu XXIX vabariiklik üliõpilaste teaduslik- tehniline konverents 30. märtsist - 1. aprillini 1977 : ettekannete teesid 1977 / lk. 48 https://www.ester.ee/record=b2449987*est

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

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

New stability conditions for discrete polynomials

Nurges, Ülo; Rüstern, Ennu Proceedings of the 2005 American Control Conference : June 8-June 10, 2005, Hilton Portland & Executive Tower, Portland, Oregon. Vol. 6 2005 / p. 4149-4153 : ill https://folk.ntnu.no/skoge/prost/proceedings/acc05/PDFs/Papers/0742_FrB05_6.pdf

New stability conditions for discrete-time systems

Nurges, Ülo; Rüstern, Ennu Proceedings of the 6th Asia-Pacific Conference on Control & Measurement : 12-19 August, 2004, Chengdu, China 2004 / p. 167-173

On the representation and interpretation of linguistic fuzzy systems

Riid, Andri; Rüstern, Ennu Proceedings of the third IASTED International Conference on Artificial Intelligence and Applications - AIA 2003 : Benalmadena, Spain, September 8-10, 2003 2003 / p. 88-93

On the robust control of polytopic plants

Nurges, Ülo; Rüstern, Ennu Proceedings of the 1999 American Control Conference : June 2-4, 1999, Hyatt Regency San Diego, San Diego, California, USA. Vol. 1 1999 / p. 435-439 : ill <https://ieeexplore.ieee.org/document/782865>

On the robust controller design via reflection coefficients

Nurges, Ülo; Rüstern, Ennu Proceedings of the 5th Asia-Pacific Conference on Control & Measurement, Dali, China, 2002 2002 / p. 160-165

On the robust output control via reflection vectors [Electronic resource]

Nurges, Ülo; Rüstern, Ennu Preprints of the 16th IFAC World Congress : Prague, Czech Republic, July 3-8, 2005 2005 / [6] p. [CD-ROM] <https://www.sciencedirect.com/science/article/pii/S1474667016370434>

On the robust pole placement for interval plants

Nurges, Ülo; Rüstern, Ennu Proceedings of the Workshop on Applications of Interval Analysis to Systems and Control : Girona, Spain, February 24-26, 1999 1999 / p. 423-431

On the robust stability and robust control via reflections coefficients [Electronic resource]

Nurges, Ülo; Rüstern, Ennu Proceedings of the First African Control Conference : University of Cape Town, Cape Town, South Africa, 3-5 December 2003 2003 / p. 381-386 [CD-ROM] <https://folk.ntnu.no/skoge/prost/proceedings/afcon03/Papers/003.pdf>

On the robust stability of discrete-time systems

Nurges, Ülo; Rüstern, Ennu The 1998 IEEE Asia Pacific Conference on Circuits and Systems : Microelectronics and Integrating Systems : November 24-27, 1998, Chiangmai Plaza Hotel, Chiangmai, Thailand 1998 / p. 407-410

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

Processing of blurred image by the two-rate hybrid Kohonen neural network

Astrov, Igor; Tatarlõ, Svetlana; Rüstern, Ennu Proceedings of 2nd IASTED International Multi-Conference on Automation, Control, and Information Technology - Signal and Image Processing 2005 / p. 30-35

Processing of distorted fingerprints with use of three-rate hybrid kohonen neural networks

Astrov, Igor; Tatarly, S.; Tatarly, S.; Rüstern, Ennu Proceedings of the 8th International Conference on Signal Processing : ICSP'06 : Guilin, China, November 16-20, 2006 2006 / p. 2383-2386 <https://ieeexplore.ieee.org/document/4129338>

Processing of distorted fingerprints with use of three-rate hybrid kohonen neural networks [Electronic resource]

Astrov, Igor; Tatarly, S.; Tatarly, S.; Rüstern, Ennu Proceedings of the 8th International Conference on Signal Processing : ICSP'06 : Guilin, China, November 16-20, 2006 2006 / [4] p. [CD-ROM] <https://ieeexplore.ieee.org/document/4129338>

Processing of two-dimensional data with use of two-rate Kohonen's neural networks [Electronic resource]

Astrov, Igor; Tatarlõ, Svetlana; Rüstern, Ennu IEEE Canadian Conference on Electrical and Computer Engineering 2005 / p. 949-952 [CD-ROM] <https://ieeexplore.ieee.org/document/1557133>

Programm lineaarse te süsteemide analüüsiks

Moskin, I.; Rüstern, Ennu XXIX vabariiklik üliõpilaste teaduslik- tehniline konverents 30. märtsist - 1. aprillini 1977 : ettekannete teesid 1977 / lk. 47-48 https://www.ester.ee/record=b2449987*est

Pöördumine Haridus- ja Teadusministri ning Riigikogu kultuurikomisjoni esimehe poole : [doktorikoolide probleemist]

Arro, Ilmar; Kaljurand, Mihkel; Kallavus, Urve; Kübarsepp, Jakob; Lille, Ülo; Lopp, Margus; Mellikov, Enn; Min, Mart; Rang, Toomas; Rüstern, Ennu; Taklaja, Andres; Tamm, Toomas; Tammet, Tanel; Tepandi, Jaak; Ubar, Raimund-Johannes; Öpik, Andres Tallinna Tehnikaülikooli aastaraamat 2005 2006 / lk. 430-431

Pöördumine Haridus- ja Teadusministri ning Riigikogu kultuurikomisjoni esimehe poole : [doktorikoolide probleemist]

Arro, Ilmar; Kaljurand, Mihkel; Kallavus, Urve; Kübarsepp, Jakob; Lille, Ülo; Lopp, Margus; Mellikov, Enn; Min, Mart; Rang, Toomas; Rüstern, Ennu; Taklaja, Andres; Tamm, Toomas; Tammet, Tanel; Tepandi, Jaak; Ubar, Raimund-Johannes; Öpik, Andres Mente et Manu 2005 / 18. mai. lk. 1 https://www.ester.ee/record=b1242496*est

Redundancy detection and removal in Mamdani Fuzzy Systems

Riid, Andri; Saastamoinen, Kalle; Rüstern, Ennu Proceedings of the Eighth International Conference on Applications of Fuzzy Systems and Soft Computing : Helsinki, Finland, 1-3 September 2008 2008 / p. 131-140

Redundancy detection and removal tool for transparent Mamdani systems

Riid, Andri; Saastamoinen, Kalle; Rüstern, Ennu Intelligent systems : from theory to practice 2010 / p. 397-415

https://link.springer.com/chapter/10.1007/978-3-642-13428-9_19

Reflection coefficient approach to robust state controller design

Nurges, Ülo; Rüstern, Ennu IEEE International Conference on Control and Automation : ICCA 2009 : Christchurch, New Zealand, December 9-11, 2009 2009 / p. 519-523 <https://ieeexplore.ieee.org/document/5410189>

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

Vassiljeva, Kristina 2012

Robust control via polytopic stability region approximations

Nurges, Ülo; Rüstern, Ennu Proceedings of the 15th Mediterranean Conference on Control and Automation : MED'07 : Athena (Greece), June 27-29, 2007 2007 / [5] p <https://ieeexplore.ieee.org/document/4433838>

Robust pole placement by quadratic programming

Nurges, Ülo; Rüstern, Ennu 5th IFAC Symposium on Robust Control Design : Toulouse, France, July 4-7, 2006 2006 / p. 333-338 <https://www.sciencedirect.com/science/article/pii/S1474667015335217>

Robust pole placement via polytope of reflection vectors

Nurges, Ülo; Rüstern, Ennu ECC'07 European Control Conference : July 2-5, 2007, Kos, Greece : proceedings 2007 / p. 798-803 <https://ieeexplore.ieee.org/document/7068240>

Robust reflection coefficients placement by quadratic programming

Nurges, Ülo; Rüstern, Ennu Proc. IEEE Conference on Decision and Control 2000 / p. 16 https://www.researchgate.net/publication/251794857_Robust_reflection_coefficients_placement_by_quadratic_programming

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

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

Simulation of neural network and fuzzy logic hybrid control for two-rate stochastic model of an experimental aircraft

Astrov, Igor; Rüstern, Ennu Proceedings of the Asian Simulation Conference - 5th International Conference on System Simulation and Scientific Computing (ICSC 2002), Shanghai, China, November 3-6, 2002. Vol. 2 2002 / p. 852-856

Simulation of three-rate decentralized LQG control for Lockheed L1011 aircraft

Astrov, Igor; Rüstern, Ennu Control and Applications : lasted International Conference 2001 2001 / p. 225-230

Simulation of three-rate neural and neuro-fuzzy hybrid control for the multidimensional stochastic model of a fighter aircraft

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu SCI 2004 : the 8th World Multi-Conference on Systemics, Cybernetics and Informatics : July 18-21, 2004, Orlando, Florida, USA. Vol. 8 : proceedings 2004 / p. 351-356

Simulation of two-rate adaptive hybrid control with neural and neuro-fuzzy networks for stochastic model of an experimental aircraft

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu Proceedings of the International Conference on Cybernetics and Information Technologies, Systems and Applications (CITSA 2004) [and] 10th International Conference on Information System Analysis and Synthesis (ISAS 2004) : Orlando, Florida, USA. Vol. 2 2004 / p. 295-300

Simulation of two-rate adaptive hybrid control with neural and neuro-fuzzy networks for stochastic model of missile autopilot

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu WCICA 2004 : Fifth World Congress on Intelligent Control and Automation : June 15-19, 2004, Hangzhou, China : conference proceedings. Vol. 3 2004 / p. 2603-2607 : ill

Simulation of two-rate adaptive neural network and fuzzy logic hybrid control for stochastic model of an experimental aircraft

Astrov, Igor; Pedai, Andrus; Rüstern, Ennu Canadian Conference on Electrical and Computer Engineering 2004 = Conference canadienne en genie electrique et informatique : May 2-5, 2004, Fallsview Sheraton, Niagara Falls, Canada : proceedings. Vol. 1 2004 / p. 125-128 : ill

Simulation of two-rate hybrid control for stochastic model of missile autopilot

Astrov, Igor; Rüstern, Ennu Proceedings of the International Conference on Computer, Communication and Control Technologies (CCCT'03) : Sheraton World Resort, Orlando, Florida, USA, July 31-August 2, 2003. 3 2003 / p. 150-154

Stable polytopes of reflection vectors and robust control

Nurges, Ülo; Rüstern, Ennu Proceedings of the 7th Asia-Pacific Conference on Control & Measurement : 10-18 August, 2006,

Supervisory fed-batch fermentation control on the basis of linguistically interpretable fuzzy models

Riid, Andri; Rüstern, Ennu Proceedings of the Estonian Academy of Sciences. Engineering 2000 / 2, p. 96-112 : ill
https://artiklid.elnet.ee/record=b1004040*est

Takagi-Sugeno systems with improved interpretability and interpolation using a complementary interpolation model

Riid, Andri; Rüstern, Ennu Proceedings of the IEEE 4th International Conference on Intelligent System Design and Applications : Budapest, Hungary, 2004. Vol. 1 2004 / p. 259-264 : ill https://conf.uni-obuda.hu/isda2004/43_ISDA2004.pdf

Teaduskondade ja kolledžite üritused [TTÜ 90. aastapäeva raames]

Liias, Roode; Lehtla, Tõnu; Rajangu, Väino; Rüstern, Ennu; Klesment, Raili; Kosk, Kertu; Kulu, Priit; Paas, Aet; Sagar, Maris; Lechtmets, Alge; Andrejev, Viktor; Roosileht, Mare Tallinna Tehnikaülikool 90 : [artiklikogumik] 2009 / lk. 94-110

Telefoniteatmiku koostamine arvutil

Rüstern, Ennu Side. Raadio. Televisioon : infoseeria 10 1985 / lk. 1-5 : tab https://www.ester.ee/record=b1232303*est

The discrete control of two-rate nonlinear multivariable continuous-time systems

Astrov, Igor; Rüstern, Ennu Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 1997 / 3, p. 197-208

The distance from stability boundary and reflection vectors [Electronic resource]

Nurges, Ülo; Rüstern, Ennu 2002 American Control Conference : Anchorage, Alaska, May 8-10, 2002 : conference proceedings 2002 / p. 3908-3913 [CD-ROM] <https://ieeexplore.ieee.org/document/1024539>

The state-space description of two-rate nonlinear multivariable discrete systems

Astrov, Igor; Rüstern, Ennu Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 1997 / 3, p. 187-196

Transparency analysis of first-order Takagi-Sugeno systems

Riid, Andri; Isotamm, Raul; Rüstern, Ennu 10th International Conference on System-Modeling-Control : Zakopane, Poland, May 21-25, 2001 : proceedings. Vol. 2 2001 / p. 165-170 : ill
https://www.researchgate.net/publication/2491497_Transparency_Analysis_Of_First-Order_Takagi-Sugeno_Systems

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

Transparent fuzzy systems and modelling with transparency protection

Riid, Andri; Rüstern, Ennu IFAC Symposium on Artificial Intelligence in Real Time Control : AIRTC-2000 : October 2-4, 2000, Budapest, Hungary : preprints 2000 / p. 229-234 : ill

Transparent fuzzy systems in modeling and control

Riid, Andri; Rüstern, Ennu Interpretability issues in fuzzy modeling 2002 / p. 452-476 https://link.springer.com/chapter/10.1007/978-3-540-37057-4_19

Two-rate aggregative model in state space for a class of nonlinear multivariable stochastic continuous-time control systems

Astrov, Igor; Rüstern, Ennu Proceedings of the 12th International Conference on Systems for Automation of Engineering and Research (SAER'98) : 19-20 September 1998, Varna - St. Konstantin resort, Bulgaria 1998 / p. 34-38

Two-rate neuro-fuzzy hybrid control for model of an experimental aircraft

Astrov, Igor; Rüstern, Ennu Automation, Control and Information Technology : proceedings of the IASTED International Conference : June 10-13, 2002, Novosibirsk, Russia 2002 / p. 180-185

Two-rate state-space continuous-time models for subsystems of stochastic multivariable control systems

Astrov, Igor; Rüstern, Ennu Proceedings of the 13th International Conference "Systems for Automation of Engineering and Research" (SAER'99) : Varna, Bulgaria, September 18-19, 1999 1999 / p. 49-53

Two-rate state-space mathematical models for stochastic multivariable continuous-time control systems and their simulation (MMAR'2000)

Astrov, Igor; Em, Juri; Rüstern, Ennu Proc. 6th International Conf. on Methods and Models in Automation and Robotics 2000 / p. 471-476

Вajatakse haid insenere : [vestlus TTÜ automaatika ja süsteemitehnika instituudi direktori E. Rüsterniga]
Rüstern, Ennu; Krišciunas, Svetlana Õhtuleht 1994 / 5. apr., lk. 8

Автоматизация исследования и проектирования адаптивных систем управления непрерывными динамическими объектами

Lehtmets, Andrus; Rüstern, Ennu Тезисы докладов 3-й Всесоюзной школы "Проектирование автоматизированных систем контроля и управления сложными объектами" 1988 / с. 13

Автоматизация поверки цифровых вольтметров

Mägi, Harri; Rüstern, Ennu Труды по электротехнике и автоматике : сборник статей. 12 1974 / с. 95-102 : илл
https://www.ester.ee/record=b2190668*est <https://digikogu.taltech.ee/et/Item/57b94a1f-6879-4443-b6f2-322fd7e53d89>

Алгоритм вычисления передаточной функции из переходной характеристики

Kukk, Vello; Rüstern, Ennu Труды по электротехнике и автоматике : сборник статей. 13 1975 / с. 45-53
https://www.ester.ee/record=b2190710*est <https://digikogu.taltech.ee/et/Item/ffbd63ed-06d6-4bbb-9468-118f743cc87f>

Анализ линейных систем на ЭЦВМ

Rüstern, Ennu Тезисы докладов республиканской научно-технической конференции, посвященной Дню радио, Таллин, 1977 1977 / с. 77 https://www.ester.ee/record=b1313776*est

Влияние абсорбции диэлектрика конденсаторов на выходные параметры фильтров

Kivimaker, A.; Rebane, Raul-Vello; Rüstern, Ennu Тезисы докладов научно-технической конференции, посвященной Дню радио 1974 / с. 27 https://www.ester.ee/record=b1294751*est

Вопросы автоматизации калибраторов напряжения

Mägi, Harri; Rebane, Raul-Vello; Rüstern, Ennu; Hunt, I. Тезисы докладов научно-технической конференции, посвященной Дню радио 1974 / с. 28-29 https://www.ester.ee/record=b1294751*est

Высоковольтный выходной усилитель

Vasser, R.; Rüstern, Ennu Тезисы докладов научно-технической конференции, посвященной Дню радио 1974 / с. 28
https://www.ester.ee/record=b1294751*est

Измерительно-вычислительный комплекс Е 102

Rebane, Raul-Vello; Ojarand, Jaan; Rüstern, Ennu; Martin, Kaarel Тезисы докладов республиканской научно-технической конференции, посвященной Дню радио. [1], Секция: Информационно-измерительная техника 1981 / с. 13-14 : ил
https://www.ester.ee/record=b1310782*est

Исследование алгоритмов преобразования и аппроксимации параметров линейных систем и цепей на ЭВМ : автореферат ... кандидата технических наук (05.13.01)

Rüstern, Ennu 1976 https://www.ester.ee/record=b1301697*est

Исследование алгоритмов преобразования и аппроксимации параметров линейных систем и цепей на ЭВМ : диссертация на соискание ученой степени кандидата технических наук

Rüstern, Ennu 1975 https://www.ester.ee/record=b4630872*est

Исследование интеллектуальных систем управления сложными динамическими объектами методом прототипов

Sarv, Siim; Rüstern, Ennu Автоматизация и роботизация в химической промышленности : Тезисы докладов к [III] всесоюзной научной конференции, 5-9 сент. 1988 г. 1988 / с. 168-169

Метод лагеровских последовательностей

Kukk, Vello; Rüstern, Ennu Анализ и синтез сложных систем и цепей с помощью ЭВМ 1985 / с. 59-68

Модели линейных систем

Leppikson, Viktor; Rüstern, Ennu Автоматизация проектирования в электронике - система SPADE 1982 / с. 57-68 : ил
https://www.ester.ee/record=b1312243*est <https://digikogu.taltech.ee/et/Item/4bb3c838-273f-4f66-907d-fe44df0c246b>

Моделирование дискретных адаптивных систем управления

Lehtmets, Andrus; Rüstern, Ennu XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том II, Автоматика. Энергетика. Механика. Химия 1986 / с. 14 https://www.ester.ee/record=b1305565*est

Нахождение передаточной функции по заданной функции группового запаздывания

Kukk, Vello; Rüstern, Ennu Труды по электротехнике и автоматике : сборник статей. 11 1973 / с. 19-26 : илл
https://www.ester.ee/record=b2190624*est <https://digikogu.taltech.ee/et/Item/d6e57925-e104-44e1-a218-c5b3110d9996>

Нахождение передаточных функций по амплитудным или фазовым характеристикам

Rüstern, Ennu Труды по электротехнике и автоматике : сборник статей. 12 1974 / с. 23-31 : илл

https://www.ester.ee/record=b2190668*est <https://digikogu.taltech.ee/et/Item/57b94a1f-6879-4443-b6f2-322fd7e53d89>

Нахождение передаточных функций по заданным частотным характеристикам на ЭВМ "Минск-22"

Rüstern, Ennu Тезисы докладов научно-технической конференции, посвященной Дню радио 1974 / с. 13

https://www.ester.ee/record=b1294751*est

Некоторые алгоритмы идентификации на основе последовательности Лагерра

Rüstern, Ennu Республиканская научно-техническая конференция, посвященная Дню радио : тезисы докладов 1973 / с. 19-21 https://www.ester.ee/record=b1383925*est

Некоторые аспекты коррекции погрешностей СИП

Logunov, Gennadi; Lipping, Kalle; Rüstern, Ennu Синхронные измерительные преобразователи 1984 / с. 39-47

Нелинейные делители напряжения с широтно-импульсной модуляцией

Rebane, Raul-Vello; Rüstern, Ennu Тезисы докладов научно-технической конференции, посвященной Дню радио 1974 / с. 16-17 https://www.ester.ee/record=b1294751*est

Новый метод идентификации времени чистого запаздывания

Kukk, Vello; Rüstern, Ennu Труды по электротехнике и автоматике : сборник статей. 11 1973 / с. 11-17 : илл

https://www.ester.ee/record=b2190624*est <https://digikogu.taltech.ee/et/Item/d6e57925-e104-44e1-a218-c5b3110d9996>

Обработка результатов реологических измерений на ЭВМ

Gordon, Boris; Rüstern, Ennu; Sildaru, Kalev Расчет и проектирование измерительных преобразователей 1983 / с. 43-49 : ил https://www.ester.ee/record=b1288985*est <https://digikogu.taltech.ee/et/Item/4e3815a3-f217-4ae2-9776-1b5ea3c25959>

Пакеты прикладных программ для автоматизации исследования и проектирования алгоритмов адаптивного управления НТП

Lehtmets, Andrus; Priima, H.; Rüstern, Ennu Автоматизация и роботизация в химической промышленности : Тезисы докладов к [III] всесоюзной научной конференции, 5-9 сент. 1988 г 1988 / с. 212-213

Построение моделей среды по результатам пластометрических учений

Sildaru, Kalev; Rüstern, Ennu; Gordon, Boris XII конференция молодых ученых и специалистов Прибалтики и Белоруссии по проблемам строительных материалов и конструкций, 31 января - 2 февраля : тезисы докладов 1984 / с. [?]

https://www.ester.ee/record=b2731034*est

Применение разложений по функциям Лагерра для машинного анализа линейных цепей и систем

Kukk, Vello; Rüstern, Ennu; Leppikson, Viktor Проблемы кибернетики : материалы конференции молодых ученых и специалистов по кибернетике. 2-4 июня 1971 г. 1971 / с. 101

Разработка прикладного пакета для проектирования адаптивных систем управления с применением инструментальной систем С-PRIZ

Lehtmets, Andrus; Priima, H.; Rüstern, Ennu; Sarv, Siim Объектно-ориентированное программирование : всесоюз. конф. "Актуальные проблемы системного программирования", Таллинн, 16-18 янв. 1990 1990 / с. 79-80

Расчет и проектирование приборов, устройств и систем технической кибернетики

1980 https://www.ester.ee/record=b1281890*est <https://digikogu.taltech.ee/et/Item/8e0abfe2-9020-4ebd-85d1-fd67de0d1b30>

Расчет и проектирование систем технической кибернетики

1983 https://www.ester.ee/record=b1288991*est <https://digikogu.taltech.ee/et/Item/7d7515af-76b7-4d35-89a7-e80367d5b635>

Расчет линейных систем методом лаггеровских последовательностей

Rüstern, Ennu Расчет и проектирование систем технической кибернетики 1984 / с. 69-83

Расчет показателей качества переходного процесса

Rüstern, Ennu Расчет и проектирование систем технической кибернетики 1984 / с. 57-68

Система автоматизированной поверки АЦП и ЦВ Е 101

Rüstern, Ennu; Takis, N. Аналого-цифровые и цифро-аналоговые преобразователи : тезисы докладов Республиканской научно-технической конференции, посвященной дню радио, в октябре 1983 года : секция: прецизионные аналого-цифровые и цифро-аналоговые преобразователи 1983 / с. 67-69 : ил https://www.ester.ee/record=b1373964*est

Система программ для анализа динамики RC-сетей

Rüstern, Ennu; Kukk, Vello XVI студенческая научно-техническая конференция вузов Прибалтики, Белорусской ССР и Калининградской области, посвященная 100-летию со дня рождения В. И. Ленина : 20-25 апреля 1970 г. : (тезисы докладов).

Система программ для анализа линейных систем и цепей

Kukk, Vello; Kurm, Matti; Ronk, Ants; Rüstern, Ennu Тезисы докладов республиканской научно-технической конференции, посвященной 80-летию со дня изобретения радио А. С. Поповым 1975 / с. 53 https://www.ester.ee/record=b1322122*est

Точные пассивные аналоговые цепи, основывающиеся на способах последовательного замещения двухполюсников. Делители с широтно - импульсной модуляцией

Rebane, Raul-Vello; Uibu, A.; Rüstern, Ennu Республиканская научно-техническая конференция, посвященная Дню радио : тезисы докладов 1973 / с. 29-30 https://www.ester.ee/record=b1383925*est

Усредняющие фильтры по принципу выборка-запоминание

Rüstern, Ennu Тезисы докладов республиканской научно-технической конференции, посвященной 80-летию со дня изобретения радио А. С. Поповым 1975 / с. 72-73 https://www.ester.ee/record=b1322122*est

Электротехника и автоматика

Rüstern, Ennu; Aarna, Olav; Teder, Toomas; Annus, Arno; Bachverk, Aleksander; Kiitam, Andres; Saks, Eva; Raiend, Kullo; Rebane, Jüri; Rebane, Kaie; Kortela, U.; Lautala, P. 1984 https://www.ester.ee/record=b1351791*est

Электротехника и автоматика

Ubar, Raimund-Johannes; Rang, Toomas; Velmre, Enn; Evartson, Teet; Voolaine, A.; Toome, Tõnis; Viilup, Agu; Sudnitsõn, Aleksander; Berkman, Boriss; Rüstern, Ennu; Leis, Paul; Keevallik, Andres; Kruus, Margus; Jüri, A. 1984 https://www.ester.ee/record=b1549179*est

Электротехника и автоматика

Bachverk, Aleksander; Min, Mart; Parve, Toomas; Land, Raul; Lipping, Kalle; Võrno, Toivo; Logunov, Gennadi; Rüstern, Ennu; Peterson, Jaak; Trumm, Tõnu; Trampärk, H.; Sillamaa, Hanno 1984 https://www.ester.ee/record=b1356648*est

Электротехника и автоматика

Seppel, Simmu; Sillamaa, Hanno; Aarna, Olav; Raiend, Kullo; Kukk, Vello; Rüstern, Ennu; Vendelin, Jelena; Leppikson, Viktor; Vijar, Merike; Kurm, Matti; Min, Mart; Parve, Toomas; Väljamäe, Gunnar; Proode, Ülo; Tilk, Johan; Gordon, Boris; Einer, Lauri; Rimmel, Ülo; Sepp, Ülo; Uutma, Toomas; Annus, Arno; Bachverk, Aleksander; Kiitam, Andres; Saks, Eva; Sildaru, Kalev 1985 https://www.ester.ee/record=b1302188*est

Электротехника и автоматика

Rüstern, Ennu; Leis, Paul; Sudnitsõn, Aleksander; Viies, Vladimir; Berkman, Boriss; Keevallik, Andres; Kruus, Margus; Ubar, Raimund-Johannes; Alango, Villem; Kont, Toomas; Grigorjeva, Ksenja; Einasto, N.; Evartson, Teet; Gerasimtšuk, Valeri; Mahhitko, V.P.; Šendrik, M.G.; Tamm, Boris, inform. 1986 https://www.ester.ee/record=b1296477*est

Электротехника и автоматика

Mägi, Harri; Rüstern, Ennu; Aarna, Olav; Kiitam, Andres; Land, Raul; Min, Mart; Ronk, Ants; Parve, Toomas; Rang, Toomas; Mahhitko, V.P.; Šendrik, M.G.; Tamm, Boris, inform. 1986 https://www.ester.ee/record=b1296468*est

Электротехника и автоматика

Rüstern, Ennu; Keevallik, Andres; Kruus, Margus; Salum, Kaja; Berkman, Boriss; Tammemäe, Kalle; Alango, Villem; Kont, Toomas; Ubar, Raimund-Johannes; Lohuaru, Tõnu; Štraube, B.; Elst, G.; Bombik, B.; Viies, Vladimir; Gallai, S.; Rang, Toomas; Laansoo, Ants; Männama, Vello; Pikkov, Otto; Gurjanov, Boris; Opotski, Aleksei; Velmre, Enn 1988 https://www.ester.ee/record=b1256708*est

Есть ли у науки шанс фыжить? : [беседа с Э.Рюстерн и Х.Силламаа]

Rüstern, Ennu; Sillamaa, Hanno; Krišciunas, Svetlana Вечерний курьер 1993 / 1. апр., с. 2