A note on the relationship between single- and multi-experiment observability for discrete-time nonlinear control systems
Kaparin, Vadim; **Kotta, Ülle**; Shumsky, Alexey Ye.; Zhirabok, Alexey N. Proceedings of the Estonian Academy of Sciences 2011 / 3, p. 174-178

A transfer function approach to the realisation problem of nonlinear systems
Halas, Miroslav; **Kotta, Ülle** International journal of control 2012 / p. 320-331

Accessibility and orbits for discrete-time nonlinear control systems
Bartosiewicz, Zbigniew; **Kotta, Ülle**; Wyrwas, Malgorzata 60th IEEE Conference on Decision and Control, CDC 2021, Austin, 13-17 December 2021 2021 / p. 4594-4601 https://doi.org/10.1109/CDC45484.2021.9682853 Conference proceedings at Scopus Article at Scopus Article at WOS

Accessibility and system reduction of nonlinear time-delay control systems
Bartosiewicz, Zbigniew; **Kaldmäe, Arvo**; Kawano, Yu; **Kotta, Ülle**; Pawluszewicz, Ewa; **Simha, Ashutosh**; Wyrwas, Małgorzata IEEE Transactions on Automatic Control 2021 / p. 3781−3788 https://doi.org/10.1109/TAC.2020.3028566 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Accessibility conditions of MIMO nonlinear control systems on homogeneous time scales
Bartosiewicz, Zbigniew; **Kotta, Ülle**; **Tõnso, Maris**; Wyrwas, Małgorzata Mathematical control and related fields 2016 / p. 217-250 https://doi.org/10.3934/mcrf.2016002 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Accommodation to defects in the discrete dynamic systems
Zhirabok, Alexey N.; **Kotta, Ülle**; **Shumsky, A. E.** Automation and remote control 2014 / p. 997-1009 : ill https://doi.org/10.1134/S0005117914060010 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Acessibility conditions for discrete time nonlinear multiinput multioutput systems
Kotta, Ülle; **Tõnso, Maris** 5th Junior European Meeting on Control & Information Technology : September 20-22, 2006, Tallinn, Estonia : book of abstracts 2006 / p. 25

Adaptive controller for networked control systems subjected to random communication delays
Srinivasan, Seshadhri; Saravanakumar, G.; Subathra, B.; **Kotta, Ülle** Soft computing applications : proceedings of the 7th International Workshop Soft Computing Applications (SOFA 2016). Vol. 1 2018 / p. 78-94 https://doi.org/10.1007/978-3-319-62521-8_8 Conference proceedings at Scopus Article at Scopus Article at WOS

Adaptive LQR controller for Networked Control Systems subjected to random communication delays
Srinivasan, Seshadhri; Vallabhan, Mishiga; Ramaswamy, Srini; **Kotta, Ülle** American Control Conference (ACC), 2013 : 17 - 19 June 2013, Washington, DC, USA (2013) 2013 / p. 783 - 787 https://doi.org/10.1109/acc.2013.6579931 Conference Proceedings at Scopus Article at Scopus

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

Adaptive output feedback linearization for a class of NN-based ANARX models
Petlenkov, Eduard; **Nõmm, Sven**; **Kotta, Ülle** Proceedings of the 6th IEEE International Conference on Control and Automation : Guangzhou, China, May 30 - June 1, 2007 2007 / p. 3173-3178 https://ieeexplore.ieee.org/document/4376947

Adjoint polynomial formulas for nonlinear state-space realization
Belikov, Juri; **Kotta, Ülle**; **Tõnso, Maris** IEEE transactions on automatic control 2014 / p. 256-261 https://doi.org/10.1109/TAC.2013.2270868 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Advanced design of nonlinear discrete-time and delayed systems = Diskreetsete ja hilistumistega mittelineaarsete juhtimissüsteemide süntees
Kaldmäe, Arvo 2016 https://digi.lib.ttu.ee/i/?5215 https://www.ester.ee/record=b4569894*est

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

Algebraic formalism of differential one-forms for nonlinear control systems on time scales
Bartosiewicz, Zbigniew; **Kotta, Ülle**; Pawluszewicz, Ewa; Wyrwas, Małgorzata Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2007 / 3, p. 264-282

Algebraic formalism of differential p-forms and vector fields for nonlinear control systems on homogeneous time scales
Bartosiewicz, Zbigniew; **Kotta, Ülle**; Pawluszewicz, Ewa; **Tõnso, Maris**; Wyrwas, Małgorzata Proceedings of the Estonian Academy

of Sciences 2013 / p. 215-226 https://doi.org/10.3176/proc.2013.4.02 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

An algorithm to transform discrete-time state equations into the extended observer form
Kaldmäe, Arvo; **Kotta, Ülle** Automatica 2024 / art. 111598 https://doi.org/10.1016/j.automatica.2024.111598 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Any dynamical system is fully accessible through one single actuator and related problems
Kawano, Yu; **Kotta, Ülle**; Moog, Claude International journal of robust and nonlinear control 2016 / p. 1748-1754 https://doi.org/10.1002/rnc.3379 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A brief tutorial overview of disturbance observers for nonlinear systems : application to flatness-based control
Kaldmäe, Arvo; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2020 / p. 57-73 : ill https://doi.org/10.3176/proc.2020.1.07 http://www.kirj.ee/33035/?tpl=1061&c_tpl=1064 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Challenges and perspectives in control of ionic polymer-metal composite (IPMC) actuators : a survey
Aabloo, Alvo; **Belikov, Juri**; **Kaparin, Vadim**; **Kotta, Ülle** IEEE Access 2021 / art. 9133056, p. 121059-121073 https://doi.org/10.1109/ACCESS.2020.3007020 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comments on 'A new kind of nonlinear disturbance observer for nonlinear systemswith applications to cruise control of air-breathing hypersonic vehicles'
Kaldmäe, Arvo; **Kotta, Ülle** International journal of control 2020 / p. 1725 https://doi.org/10.1080/00207179.2018.1529436 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comments on "PBH tests for nonlinear systems"
Sarafrazi, Mohammad Amin; Bartosiewicz, Zbigniew; **Kotta, Ülle** Automatica 2020 / art. 108617 https://doi.org/10.1016/j.automatica.2019.108617 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparison of LPV and nonlinear system theory : a realization problem
Belikov, Juri; **Kotta, Ülle**; **Tõnso, Maris** Systems & control letters 2014 / p. 72-78 https://doi.org/10.1016/j.sysconle.2013.10.009 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Computation of nonlinear eigenvalues based on the Ore determinant : preliminary results
Halás, Miroslav; **Kaldmäe, Arvo**; **Kotta, Ülle**; Slacka, Juraj Proceedings of the Estonian Academy of Sciences 2024 / p. 366 - 378 https://doi.org/10.3176/proc.2024.4.06 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Computer algebra tools for modelling, analysis and synthesis for nonlinear control systems = Arvutialgebra vahendid mittelineaarsete juhtimissüsteemide modelleerimiseks, analüüsiks ja sünteesiks
Tõnso, Maris 2010 https://www.ester.ee/record=b2552427*est

Construction of flat outputs of nonlinear discrete-time systems in a geometric and an algebraic framework
Kolar, Bernd; **Kaldmäe, Arvo**; Schöberl, Markus; **Kotta, Ülle**; Schlacher, Kurt IFAC-PapersOnLine 2016 / p. 796-801 https://doi.org/10.1016/j.ifacol.2016.10.263 Conference Proceedings at Scopus Article at Scopus Article at WOS

Controller and controllability canonical forms for discrete-time nonlinear systems
Kotta, Ülle Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2005 / 1, p. 55-62

Decomposition of discrete-time nonlinear control systems
Kotta, Ülle Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2005 / 3, p. 154-161

Degree of Dieudonne determinant defines the order of nonlinear system
Kotta, Ülle; **Belikov, Juri**; Halas, Miroslav; **Leibak, Alar** International journal of control 2019 / p. 518-527 https://doi.org/10.1080/00207179.2017.1361042 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Discrete- time linear- analytic system linearization and decoupling via application of right inverse system
Kotta, Ülle Eesti NSV Teaduste Akadeemia toimetised. Füüsika. Matemaatika = Известия Академии наук Эстонской ССР. Физика. Математика = Proceedings of Academy of Sciences of the Estonian SSR. Physics. Mathematics 1988 / lk. 257-262 https://www.ester.ee/record=b1264310*est

Disturbance decoupling by measurement feedback
Kaldmäe, Arvo; **Kotta, Ülle** 19th IFAC World Congress on International Federation of Automatic Control, IFAC 2014 2014 / p. 7735-7740 : ill https://doi.org/10.3182/20140824-6-za-1003.00216 Conference proceedings at Scopus Article at Scopus

Disturbance decoupling by measurement feedback : sensor location
Kaldmäe, Arvo; **Kotta, Ülle**; Shumsky, Alexey; Zhirabok, Alexey Proceedings of the Estonian Academy of Sciences 2016 / p. 317-

329 : ill https://doi.org/10.3176/proc.2016.4.05 https://artiklid.elnet.ee/record=b2808632*est Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Disturbance decoupling for nonlinear systems by measurement feedback: Sensor location
Kaldmäe, Arvo; **Kotta, Ülle**; Shumsky, Alexey; Zhirabok, Alexey 19th IFAC World Congress on International Federation of Automatic Control, IFAC 2014 2014 / p. 7729-7734 : ill https://doi.org/10.3182/20140824-6-za-1003.00013 Conference proceedings at Scopus Article at Scopus

Disturbance decoupling in nonlinear hybrid systems
Kaldmäe, Arvo; **Kotta, Ülle**; Shumsky, Alexey; Zhirabok, Alexey Nonlinear analysis : hybrid systems 2018 / p. 42-53 https://doi.org/10.1016/j.nahs.2017.11.001 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Disturbance decoupling in nonlinear hybrid systems [Electronic resource]
Kaldmäe, Arvo; **Kotta, Ülle**; Shumsky, Alexey; Zhirabok, Alexey 12th IEEE International Conference on Control and Automation : ICCA 2016 : Kathmandu, Nepal, 1-3 June 2016 2016 / p. 86-91 : ill. [USB] https://doi.org/10.1109/ICCA.2016.7505257

Disturbance decoupling of multi-input multi-output discrete-time nonlinear systems by static measurement feedback
Kaldmäe, Arvo; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2012 / p. 77-88 https://artiklid.elnet.ee/record=b2497319*est

Disturbance decoupling problem in finite automata : sensor location problem
Kaldmäe, Arvo; **Kotta, Ülle**; Shumsky, Alexey; Zhirabok, Alexey 2016 IEEE Conference on Control Applications (CCA) : part of 2016 IEEE Multi-Conference on Systems and Control, September 19-22, 2016, Buenos Aires, Argentina 2016 / p. 481-486 : ill https://doi.org/10.1109/CCA.2016.7587876

Eesti Vabariigi 2018. aasta teaduspreemia laureaadid TTÜst
Vähi, Kersti; **Buldas, Ahto**; **Kotta, Ülle**; **Kurnitski, Jarek**; **Raudla, Ringa** Mente et Manu 2018 / lk. 26-27 : portr https://www.ttu.ee/ttu-uudised/ajaleht-mente-et-manu/mente-et-manu/ http://www.ester.ee/record=b1242496*est https://artiklid.elnet.ee/record=b2836028*est

Equivalence of linear control systems on time scales
Bartosiewicz, Zbigniew; **Kotta, Ülle**; Pawluszewicz, Ewa Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2006 / 1, p. 43-52

Equivalence of realizability conditions for nonlinear control systems
Kotta, Ülle; **Mullari, Tanel** Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2006 / 1, p. 24-42

Erratum : Linearization of discrete-time control system by state transformation
Mullari, Tanel; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2021 / p. 307 https://doi.org/10.3176/proc.2021.1.09 https://kirj.ee/wp-content/plugins/kirj/pub/Erratum-proc-3-2021-307_20210822154030.pdf

Event-based control for differentially flat systems: application to autonomous underwater vehicle
Kaldmäe, Arvo; **Kotta, Ülle**; **Meurer, Christian**; **Simha, Ashutosh** IFAC-PapersOnLine 2019 / p. 180-185 https://doi.org/10.1016/j.ifacol.2019.11.775 Conference proceedings at Scopus Article at Scopus Article at WOS

Experimental validation of the Newton observer for a nonlinear flux-controlled AMB system operated with zero-bias flux
Mystkowski, Arkadiusz; Kierdelewicz, A.; **Kotta, Ülle**; **Kaparin, Vadim** International journal of control 2020 / p. 2257-2266 : ill https://doi.org/10.1080/00207179.2018.1552025 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Extended observer form : simple existence conditions
Kaparin, Vadim; **Kotta, Ülle**; **Mullari, Tanel** International journal of control 2013 / p. 794-803 : ill https://doi.org/10.1080/00207179.2012.760048 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Extended observer form for nonlinear system with disturbances : Algorithm and application
Kaparin, Vadim; Simha, Ashutosh; Chowdhury, Nilanjan Roy; **Kotta, Ülle**; Levron, Yoash; **Belikov, Juri** 2024 18th International Conference on Control, Automation, Robotics and Vision (ICARCV) 2024 https://doi.org/10.1109/ICARCV63323.2024.10821609

Extended observer form with vector fields
Mullari, Tanel; **Kotta, Ülle**; **Kaldmäe, Arvo**; **Kaparin, Vadim**; Simha, Ashutosh International journal of control 2024 / p. 2399 - 2412 https://doi.org/10.1080/00207179.2023.2274060 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Extended observer forms for submersive discrete-time systems
Simha, Ashutosh; **Kaparin, Vadim**; **Mullari, Tanel**; **Kotta, Ülle** IEEE Transactions on Automatic Control 2023 / p. 2684 - 2688 https://doi.org/10.1109/TAC.2023.3336253 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Faulty plant reconfiguration based on disturbance decoupling methods

Kaldmäe, Arvo; **Kotta, Ülle**; Jiang, Bin; Shumsky, Alexey Ye.; Zhirabok, Alexey N. Asian journal of control 2016 / p. 858-867 : ill https://doi.org/10.1002/asjc.1185 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Faulty plant reconfiguration by measurement feedback: Sensor location
Kaldmäe, Arvo; **Kotta, Ülle**; Shumsky, Alexey; Zhirabok, Alexey IFAC-PapersOnLine 2015 / p. 1283-1288 : ill https://doi.org/10.1016/j.ifacol.2015.09.702 Conference proceedings at Scopus Article at Scopus

Feedback linearization and lattice theory
Kotta, Ülle; **Tõnso, Maris**; Shumsky, Alexey Ye.; Zhirabok, Alexey N. Systems & control letters 2013 / p. 248-255 https://doi.org/10.1016/j.sysconle.2012.11.014 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Feedback linearization of an active magnetic bearing system operated with a zero-bias flux
Mystkowski, Arkadiusz; **Kaparin, Vadim**; **Kotta, Ülle**; Pawluszewicz, Ewa; **Tõnso, Maris** International journal of applied mathematics and computer science 2017 / p. 539-548 : ill https://doi.org/10.1515/amcs-2017-0038 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Feedback linearization of discrete-time nonlinear control systems : computational aspects
Mullari, Tanel; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2020 / p. 11-26 https://doi.org/10.3176/proc.2020.1.03 http://kirj.ee/32996/?tpl=1061&c_tpl=1064 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Feedback linearization of possibly non-smooth systems
Kaldmäe, Arvo; **Kotta, Ülle**; Shumsky, Alexey; Zhirabok, Alexey Proceedings of the Estonian Academy of Sciences 2017 / p. 109-123 https://doi.org/10.3176/proc.2017.2.01 http://www.ester.ee/record=b2355998*est https://artiklid.elnet.ee/record=b2820923*est Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Finite determination of accessibility and singular points of nonlinear systems: an algebraic approach
Sarafrazi, Mohammad Amin; **Kotta, Ülle**; Bartosiewicz, Zbigniew Systems & control letters 2020 / art. 104600, p. 1−7 https://doi.org/10.1016/j.sysconle.2019.104600 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A flapped paddle-fin for improving underwater propulsive efficiency of oscillatory actuation
Simha, Ashutosh; **Gkliva, Roza**; **Kotta, Ülle**; **Kruusmaa, Maarja** IEEE robotics and automation letters 2020 / p. 3176-3181 https://doi.org/10.1109/LRA.2020.2975747 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Flatness based control of a HVAC system
Kaldmäe, Arvo; **Kotta, Ülle** Information technology and control 2017 / p. 499-507 : ill https://doi.org/10.5755/j01.itc.46.4.17697 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

FLHex: a flapped-paddle hexapod for all-terrain amphibious locomotion
Burzynski, Piotr; **Simha, Ashutosh**; **Kotta, Ülle**; Pawluszewicz, Ewa; Sastry, Shivakumar Bulletin of the Polish Academy of Sciences Technical Sciences 2021 / art. e139007, 9 p. : ill https://doi.org/10.24425/bpasts.2021.139007 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Forward and backward shifts of vector fields : towards the dual algebraic framework
Mullari, Tanel; **Kotta, Ülle**; Bartosiewicz, Zbigniew; Pawluszewicz, Ewa; Moog, Claude IEEE transactions on automatic control 2017 / p. 3029-3033 https://doi.org/10.1109/TAC.2016.2608718 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Functions' algebra in nonlinear control : computational aspects and software
Belikov, Juri; **Kaldmäe, Arvo**; **Kaparin, Vadim**; **Kotta, Ülle**; Shumsky, Alexey Ye.; **Tõnso, Maris**; Zhirabok, Alexey Proceedings of the Estonian Academy of Sciences 2017 / p. 89-107 https://doi.org/10.3176/proc.2017.1.06 http://www.ester.ee/record=b2355998*est Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A geometric approach to position tracking control of a nonholonomic planar rigid body : case study of an underwater vehicle
Simha, Ashutosh; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2020 / p. 215-227 : ill https://doi.org/10.3176/proc.2020.3.05 https://kirj.ee/public/proceedings_pdf/2020/issue_3/proc-2020-3-215-227.pdf Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Global linearization approach to nonlinear control systems : a brief tutorial overview
Belikov, Juri; **Kaldmäe, Arvo**; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2017 / p. 243-263 https://doi.org/10.3176/proc.2017.3.01 http://www.ester.ee/record=b2355998*est https://artiklid.elnet.ee/record=b2824300*est Journal metrics at Scopus Aricle at Scopus Journal metrics at WOS Article at WOS

Infoleht / [TTÜ] Küberneetika Instituut
Penjam, Jaan; **Kotta, Ülle**; **Kutser, Mati**; **Lemba, Maris**; **Tamm, Marje** 2001

Input-output decoupling of discrete-time nonlinear systems by dynamic measurement feedback
Kaldmäe, Arvo; **Kotta, Ülle** European journal of control 2017 / p. 31-38 : ill https://doi.org/10.1016/j.ejcon.2016.12.004 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Input–output linearization of discrete-time systems by dynamic output feedback
Kaldmäe, Arvo; **Kotta, Ülle** European journal of control 2014 / p. 73-78 https://doi.org/10.1016/j.ejcon.2013.12.004 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Institute of Cybernetics at TTU : activity report 1997-1999
Kotta, Ülle 2000

Institute of Cybernetics at TUT : activity report 2000-2003
2004 https://www.ester.ee/record=b1928118*est

Intrinsic conditions for extended observer forms for nonlinear systems
Simha, Ashutosh; Respondek, Witold; **Kaldmäe, Arvo**; **Kaparin, Vadim**; **Kotta, Ülle** 2018 IEEE Conference on Decision and Control (CDC), 17-19 Dec. 2018, 17-19 Dec. 2018 : proceedings 2018 / p. 1373-1378 https://doi.org/10.1109/CDC.2018.8619122 Conference Proceedings at Scopus Article at Scopus Article at WOS

Juhtimissüsteemide juhitavus ja tagasiside. Tagasiside. Mittelineaarsus.Lamedus
Kotta, Ülle Keeruka maailma võlu 2015 / lk. 77-80 : ill https://www.ester.ee/record=b4488344*est

Kahe doktorikraadi omanik Sven Nõmm : [intervjuu TTÜ ja Nantes'i Ülikooli doktoriga]
Nõmm, Sven; **Kotta, Ülle** Tallinna Tehnikaülikooli aastaraamat 2004 2005 / lk. 123-124

Learning based personalized energy management systems for residential buildings
Soudari, Mallikarjun; Srinivasan, Seshadhri; Balasubramanian, Subathra; **Vain, Jüri**; **Kotta, Ülle** Energy and buildings 2016 / p. 953-968 : ill https://doi.org/10.1016/j.enbuild.2016.05.059 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

A linear filtering framework for nonlinear systems based on extended output injection
Simha, Ashutosh; **Kotta, Ülle** IFAC-PapersOnLine 2019 / p. 274-279 https://doi.org/10.1016/j.ifacol.2019.11.791 Conference proceedings at Scopus Article at Scopus Article at WOS

Linearization by generalized input-output injections on homogeneous time scales
Ciulkin, Monika; Pawluszewicz, Ewa; **Kaparin, Vadim**; **Kotta, Ülle** 2016 21st International Conference on Methods and Models in Automation and Robotics (MMAR 2016) : Miedzyzdroje, Poland, 29 August - 1 September 2016 2016 / p. 48-53 https://doi.org/10.1109/MMAR.2016.7575086

Linearization by input-output injections on homogeneous time scales
Ciulkin, Monika; **Kaparin, Vadim**; **Kotta, Ülle**; Pawluszewicz, Ewa Proceedings of the Estonian Academy of Sciences 2014 / p. 387-397 https://artiklid.elnet.ee/record=b2707375*est https://doi.org/10.3176/proc.2014.4.04 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Linearization of discrete-time control system by state transformation
Mullari, Tanel; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2021 / p. 62–79 https://doi.org/10.3176/proc.2021.1.09 https://kirj.ee/wp-content/plugins/kirj/pub/proc-1-2021-62-79_20210630094644.pdf?v=a57b8491d1d8 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Measurement feedback disturbance decoupling in discrete-event systems
Kaldmäe, Arvo; **Kotta, Ülle**; Shumsky, Alexey; Zhirabok, Alexey International journal of robust and nonlinear control 2015 / p. 3330-3348 https://doi.org/10.1002/rnc.3265 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Measurement feedback disturbance decoupling in discrete-time nonlinear systems
Kaldmäe, Arvo; **Kotta, Ülle**; Shumsky, Alexey Ye.; Zhirabok, Alexey N. Automatica 2013 / p. 2887-2891 : ill https://doi.org/10.1016/j.automatica.2013.06.013 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Minimal realizations of nonlinear systems
Kotta, Ülle; Moog, Claude; **Tõnso, Maris** Automatica 2018 / p. 207-212 https://doi.org/10.1016/j.automatica.2018.05.007 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Minimal realizations of nonlinear time-delay systems
Kaldmäe, Arvo; Zbigniew, Bartosiewicz; **Kotta, Ülle**; Wyrwas, Malgorzata IEEE transactions on automatic control 2023 / p. 6766 -

6772 https://doi.org/10.1109/TAC.2023.3240124 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The minimal time-varying realization of a nonlinear time-invariant system?
Kotta, Ülle; Moog, Claude H.; **Tõnso, Maris** 9th IFAC Symposium on Nonlinear Control Systems 2013 : Toulouse, France, 4 - 6 September 2013 2013 / p. 518 - 523 https://doi.org/10.3182/20130904-3-FR-2041.00080 Conference Proceedings at Scopus Article at Scopus

Mittelineaarsed juhtimissusteemid
Kotta, Ülle Aastaraamat 2018 / Eesti Matemaatika Selts 2022 / lk. 9-21 https://matemaatika.eu/aastaraamatud/aastaraamat-2018/

Model matching problem for discrete-time nonlinear systems
Belikov, Juri; Halas, Miroslav; **Kotta, Ülle**; Moog, Claude Proceedings of the Estonian Academy of Sciences 2015 / p. 457-472 : ill https://artiklid.elnet.ee/record=b2750720*est https://doi.org/10.3176/proc.2015.4.01 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Motor failure tolerant control system with self diagnostics for unmanned multirotors
Ambroziak, Leszek; **Simha, Ashutosh**; Pawluszewicz, Ewa; Kotta, Ülle 2019 24th International Conference on Methods and Models in Automation and Robotics (MMAR) 2019 / p. 422–427 : ill https://doi.org/10.1109/MMAR.2019.8864726

Nabla derivatives associated with nonlinear control systems on homogeneous time scales
Bartosiewicz, Zbigniew; **Kotta, Ülle**; **Mullari, Tanel**; **Tõnso, Maris**; Pawluszewicz, Ewa; Wyrwas, Małgorzata Nonlinear analysis : modelling and control 2016 / p. 547-563 https://doi.org/10.15388/NA.2016.4.8 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Neural networks based ANARX structure for identification and model based control
Petlenkov, Eduard; **Nõmm, Sven**; **Kotta, Ülle** 9th International Conference on Control, Automation, Robotics and Vision : 5-8 December, 2006, Singapore : [proceedings] 2006 / p. 2284-2288 https://ieeexplore.ieee.org/document/4150221

Newton observer for a nonlinear flux-controlled AMB system
Mystkowski, Arkadiusz; **Kotta, Ülle**; **Kaparin, Vadim** Proceedings of the Estonian Academy of Sciences 2018 / p. 61-72 : ill https://doi.org/10.3176/proc.2018.1.03 http://www.ester.ee/record=b2355998*est Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

NLControl - a mathematica package for nonlinear control systems
Kotta, Ülle; **Tõnso, Maris** IFAC-PapersOnLine 2017 / p. 681-686 https://doi.org/10.1016/j.ifacol.2017.08.122 Conference proceedings at Scopus Article at Scopus Article at WOS

Non-commutative determinants in nonlinear control theory : preliminary ideas
Kotta, Ülle; **Leibak, Alar**; Halas, Miroslav ICARCV 2008 : 10th International Conference on Control, Automation, Robotics & Vision : 17-20 December 2008, Hanoi, Vietnam 2008 / p. 815-820 https://ieeexplore.ieee.org/document/4795622

Nonlinear orientation controller for a compliant robotic fish based on asymmetric actuation
Meurer, Christian; **Simha, Ashutosh**; **Kotta, Ülle**; **Kruusmaa, Maarja** 2019 International Conference on Robotics and Automation : ICRA 2019, Palais des Congres de Montreal, Canada, 20-24 May, 2019 2019 / Art. 8793892 ; p. 4688-4694 https://doi.org/10.1109/ICRA.2019.8793892 Conference proceeding at Scopus Article at Scopus Article at WOS

A note on observability of nonlinear discrete-time systems
Kaldmäe, Arvo; **Kotta, Ülle** 2023 62nd IEEE Conference on Decision and Control (CDC), Singapore, 13-15 December 2023 2023 / p. 7483-7488 https://doi.org/10.1109/CDC49753.2023.10383709 Conference proceedings at Scopus Article at Scopus Article at WOS

Observable space of the nonlinear control system on a homogeneous time scale
Kaparin, Vadim; **Kotta, Ülle**; Wyrwas, Małgorzata Proceedings of the Estonian Academy of Sciences 2014 / p. 11-25 https://artiklid.elnet.ee/record=b2665198*est https://doi.org/10.3176/proc.2014.1.04 Journal metrics at Scopus Article at Scopus Journal metrics at Scopus Article at WOS

Observer-based residual generation for nonlinear discrete-time systems
Kaldmäe, Arvo; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2018 / p. 325-336 https://doi.org/10.3176/proc.2018.4.01 http://www.kirj.ee/public/proceedings_pdf/2018/issue_4/proc-2018-4-325-336.pdf Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Oluline sündmus : [juuni algul kaitses Sven Nõmm Tallinna Tehnikaülikoolis loodusteaduste doktori kraadi, talle omistati ka Nantes'i ülikooli doktorikraad ühise kraadiõppe programmi raames]
Kotta, Ülle Postimees 2004 / lk. 12

On accessibility conditions for state space nonlinear control systems on homogeneous time scales
Bartosiewicz, Zbigniew; **Kotta, Ülle**; **Mullari, Tanel**; **Tõnso, Maris**; Wyrwas, Małgorzata Systems & control letters 2016 / p. 8-13

https://doi.org/10.1016/j.sysconle.2016.09.018 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

On flatness of discrete-time nonlinear systems
Kaldmäe, Arvo; **Kotta, Ülle** 9th IFAC Symposium on Nonlinear Control Systems 2013 : Toulouse, France, 4 - 6 September 2013 2013 / p. 588 - 593 https://doi.org/10.3182/20130904-3-FR-2041.00017 Conference Proceedings at Scopus Article at Scopus

On integrability of observable space for discrete-time analytic systems
Kawano, Yu; **Kotta, Ülle** 2015 54th IEEE Conference on Decision and Control (CDC) : date: 15-18 Dec. 2015 2015 / p. 7137 - 7142 https://doi.org/10.1109/CDC.2015.7403345 Conference Proceedings at Scopus Article at Scopus

On integrability of observable space for discrete-time polynomial control systems
Kawano, Yu; **Kotta, Ülle** IEEE transactions on automatic control 2015 / p. 1987-1991 https://doi.org/10.1109/TAC.2014.2365685 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

On submersivity assumption for nonlinear control systems on homogeneous time scales
Kotta, Ülle; Rehák, Branislav; Wyrwas, Małgorzata Proceedings of the Estonian Academy of Sciences 2011 / 1, 25-37

On the differentiation of a composite function with a generalized vector argument on homogeneous time scales
Kaparin, Vadim; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2017 / p. 309-322 : tab https://doi.org/10.3176/proc.2017.3.04 http://www.ester.ee/record=b2355998*est https://artiklid.elnet.ee/record=b2824309*est Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

On the finiteness of accessibility test for nonlinear discrete-time systems
Sarafrazi, Mohammad Amin; Pawluszewicz, Ewa; Bartosiewicz, Zbigniew; **Kotta, Ülle** International journal of control 2021 / p. 2330-2336 https://doi.org/10.1080/00207179.2019.1706102 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

On the properties of forward and backward shifts of vector fields
Kaldmäe, Arvo; **Kaparin, Vadim**; **Kotta, Ülle**; **Mullari, Tanel**; Pawluszewicz, Ewa Proceedings of the Estonian Academy of Sciences 2022 / p. 314-325 https://doi.org/10.3176/proc.2022.4.02 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

On the stopping criteria in nonlinear unknown input observability condition
Sarafrazi, Mohammad Amin; **Kotta, Ülle**; Bartosiewicz, Zbigniew IEEE transactions on automatic control 2022 / p. 4733-4737 https://doi.org/10.1109/TAC.2022.3160133 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

On the transformation of a nonlinear discrete-time input-output system into the strong row-reduced form
Bartosiewicz, Zbigniew; **Belikov, Juri**; **Kotta, Ülle**; **Tõnso, Maris**; **Wyrwas, Małgorzata** Proceedings of the Estonian Academy of Sciences 2016 / p. 220-236 https://doi.org/10.3176/proc.2016.3.02 https://artiklid.elnet.ee/record=b2798394*est Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Polynomial accessibility condition for the multi-input multi-output nonlinear control system
Kotta, Ülle; **Tõnso, Maris**; Kawano, Yu Proceedings of the Estonian Academy of Sciences 2014 / p. 136-150 https://artiklid.elnet.ee/record=b2673962*est https://doi.org/10.3176/proc.2014.2.04 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A polynomial approach to a nonlinear model matching problem
Belikov, Juri; Halas, Miroslav; **Kotta, Ülle**; Moog, Claude Proceedings of the Estonian Academy of Sciences 2016 / p. 330-344 : ill https://doi.org/10.3176/proc.2016.4.02 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Popov form and the explicit equations of inverse systems
Bartosiewicz, Zbigniew; **Kotta, Ülle**; Pawluszewicz, Ewa; Tõnso, Maris; Wyrwas, Małgorzata Proceedings of the Estonian Academy of Sciences 2018 / p. 432-355 : ill http://www.kirj.ee/public/proceedings_pdf/2018/issue_4/proc-2018-4-342-355.pdf https://doi.org/10.3176/proc.2018.4.04 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Predictive smart thermostat controller for heating, ventilation, and air-conditioning systems
Soudari, Mallikarjun; **Kaparin, Vadim**; Srinivasan, Seshadhri; Seshadhri, Subathra; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2018 / p. 291-299 : ill http://www.kirj.ee/public/proceedings_pdf/2018/issue_3/proc-2018-3-291-299.pdf https://doi.org/10.3176/proc.2018.3.11 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Realisation of linear time-varying systems
Kotta, Ülle; **Tõnso, Maris** International journal of control 2017 / p. 1951-1956 https://doi.org/10.1080/00207179.2016.1230891 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Realizability of bilinear input-output differential equations in the classigal [i.e. classical] state-space form
Kotta, Ülle; **Mullari, Tanel**; **Kotta, Palle**; Zinober, Alan 5th Junior European Meeting on Control & Information Technology :

September 20-22, 2006, Tallinn, Estonia : book of abstracts 2006 / p. 18

Realization and identification of discrete-time nonlinear systems
Nõmm, Sven 2004 https://www.ester.ee/record=b1910554*est

Realization of discrete-time nonlinear input-output equations : polynomial approach
Kotta, Ülle; **Tõnso, Maris** Automatica 2012 / p. 255-262 https://www.sciencedirect.com/science/article/pii/S0005109811005413

Realization of nonlinear input-output equations in controller canonical form
Kaldmäe, Arvo; **Kotta, Ülle** Kybernetika 2018 / p. 736-747 https://doi.org/10.14736/kyb-2018-4-0736 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Realization of nonlinear input-output equations using polynomial approach : preliminary ideas
Kotta, Ülle; **Tõnso, Maris** Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kolmanda aastakonverentsi artiklite kogumik : 25.-26. aprill 2008, Voore külalistemaja 2008 / p. 21-24

Realization of nonlinear MIMO system on homogeneous time scales
Belikov, Juri; **Kotta, Ülle**; **Tõnso, Maris** European journal of control 2015 / p. 48-54 https://doi.org/10.1016/j.ejcon.2015.01.006 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Realization of nonlinear time-delay input–output equations
Kaldmäe, Arvo; **Kotta, Ülle**; **Tõnso, Maris** IEEE Control Systems Letters 2018 / p. 369-374
https://doi.org/10.1109/LCSYS.2018.2838456 Journal metrics at Scopus Article at Scopus

Realization of time-delay systems
Kaldmäe, Arvo; **Kotta, Ülle** Automatica 2018 / p. 317-320 https://doi.org/10.1016/j.automatica.2018.01.001 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Realizations in feedforward forms of nonlinear input-output equations with time-delays
Kaldmäe, Arvo; Kawano, Yu; **Kotta, Ülle** International journal of robust and nonlinear control 2020 / p. 7560-7573
https://doi.org/10.1002/rnc.5194 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Reducibility condition for nonlinear discrete-time systems : behavioral approach
Bartosiewicz, Zbigniew; **Kotta, Ülle**; Pawłuszewicz, Ewa; **Tõnso, Maris**; Wyrwas, Małgorzata Control and Cybernetics 2013 / p. 329-346 https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=d858f3fd9c2acd98e41f35a0bed4c0cb9efab59c Journal metrics at Scopus Article at Scopus

Rekursiivsed juhtimissüsteemid : Eesti Teadusfondi projekt aastatel 1999-2002
Kotta, Ülle; **Nõmm, Sven** Eesti Teadusfondi Aastaraamat 2002/2003 2003 / lk. 23 : ill. (Tehnikateadused)

Relations between modules associated to input-output nonlinear equations with delays and their realizations
Bartosiewicz, Zbigniew; **Kaldmäe, Arvo**; **Kotta, Ülle**; Wyrwas, Malgorzata 62nd IEEE Conference on Decision and Control, CDC 2023, Singapore, 13-15 December 2023 2023 / p. 644-650 https://doi.org/10.1109/CDC49753.2023.10383927 Conference proceedings at Scopus Article at Scopus Article at WOS

Relaxing realizability conditions for discrete-time nonlinear systems
Kotta, Ülle; Schlahter, Kurt; **Tõnso, Maris** Automatica 2015 / p. 67-71 https://doi.org/10.1016/j.automatica.2015.05.007 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Remarks on the realization of time-varying systems
Kotta, Ülle; Moog, Claude; **Tõnso, Maris** Proceedings of the Estonian Academy of Sciences 2018 / p. 208-216
http://www.kirj.ee/public/proceedings_pdf/2018/issue_3/proc-2018-3-207-216.pdf https://doi.org/10.3176/proc.2018.3.02 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Removing the input derivatives in the generalized bilinear state equations
Mullari, Tanel; **Kotta, Ülle**; **Kotta, Palle**; **Tõnso, Maris**; Zinober, Alan Proceedings of the Estonian Academy of Sciences 2009 / 2, p. 98-107 https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=b053956e3600449843044b1022ebefc6d5d19df8

Silmad kinni ja näpud püsti! Kellest saab doktorant? : [kavandatavaid seadusemuudatusi õppetoetuste ja õppelaenu osas kommenteerivad TTÜ kõnetehnoloogia doktorant Tanel Alumäe, infotehnoloogia doktorant Juhan-Peep Ernits ja Küberneetikainstituudi vanemteadur Ülle Kotta]
Lill, Anne; **Alumäe, Tanel**; **Ernits, Juhan-Peep**; **Kotta, Ülle** Linnaleht 2004 / 3. dets., lk. A 7

Single-experiment observability decomposition of discrete-time analytic systems
Kawano, Yu; **Kotta, Ülle** Systems & control letters 2016 / p. 193-199 https://doi.org/10.1016/j.sysconle.2016.09.016 Journal metrics at

Scopus Article at Scopus Journal metrics at WOS Article at WOS

State estimation and control for small low-cost autonomous underwater vehicles = Meetodid olekute hindamiseks ja juhtimiseks soodsa hinnaga autonoomsetele allveerobotitele
Meurer, Christian 2021 https://www.ester.ee/record=b5435482*est https://digikogu.taltech.ee/et/Item/717111f2-51e3-4176-b0b8-b369064b26a2 https://doi.org/10.23658/taltech.27/2021

State feedback linearization of nonlinear control systems on homogeneous time scales
Bartosiewicz, Zbigniew; **Belikov, Juri**; **Kotta, Ülle**; Wyrwas, Małgorzata Nonlinear analysis: hybrid systems 2019 / p. 69-85 https://doi.org/10.1016/j.nahs.2018.08.002 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

State-space realization of nonlinear control systems : unification and extension via pseudo-linear algebra
Belikov, Juri; **Kotta, Ülle**; **Tõnso, Maris** Kybernetika 2012 / p. 1100-1113 https://www.researchgate.net/publication/269024076_State-space_realization_of_nonlinear_control_systems_Unification_and_extension_via_pseudo-linear_algebra

Static state feedback linearizability : relationship between two methods
Mullari, Tanel; **Kotta, Ülle**; **Tõnso, Maris** Proceedings of the Estonian Academy of Sciences 2011 / 2, p. 121-135 https://artiklid.elnet.ee/record=b2413961*est

Static state feedback linearization of nonlinear control systems on homogeneous time scales
Bartosiewicz, Zbigniew; **Kotta, Ülle**; **Tõnso, Maris**; Wyrwas, Małgorzata Mathematics of control, signals, and systems 2015 / p. 523-550 https://doi.org/10.1007/s00498-015-0150-5 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Teadlane peab julgema eksida : [Ülle Kotta : TTÜ küberneetika instituudi teadur, kes 1996. aastal pälvis pika teadurikarjääri tunnustusena Eesti Vabariigi teaduspreemia]
Helme, Kristi; **Kotta, Ülle** Mente et Manu 2013 / lk. 6-8 : fot

A test for the generic strong-accessibility of meromorphic nonlinear systems
Carravetta, Francesco; Sarafrazi, Mohammad Amin; Bartosiewicz, Zbigniew; **Kotta, Ülle** IEEE transactions on automatic control 2020 / p. 867-873 https://doi.org/10.1109/TAC.2019.2921645 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Testing generic strong accessibility of nonlinear control systems via polynomial (quadratic) immersion
Carravetta, Francesco; Sarafrazi, Mohammad Amin; Bartosiewicz, Zbigniew; **Kotta, Ülle** 61st IEEE Conference on Decision and Control, CDC 2022, Cancun, 6 December - 9 December 2022, proceedings 2022 / p. 1841-1846 https://doi.org/10.1109/CDC51059.2022.9992952 Conference Proceedings at Scopus Article at Scopus Article at WOS

The concepts of Lie derivative for discrete-time systems
Mullari, Tanel; **Kotta, Ülle**; Bartosiewicz, Zbigniew; Pawluszewicz, Ewa Proceedings of the Estonian Academy of Sciences 2012 / p. 253-265 : ill

The connection between different static state feedback linearizability conditions of discrete time nonlinear control systems
Mullari, Tanel; **Kotta, Ülle**; **Tõnso, Maris** Proceedings of the European Control Conference 2007, Kos, Greece, July 2-5, 2007 2007 / p. 4268−4275 http://ieeexplore.ieee.org/document/7068444/

The strong Popov form of nonlinear input–output equations
Bartosiewicz, Zbigniew; Pawluszewicz, Ewa; Wyrwas, Małgorzata; **Kotta, Ülle**; **Tõnso, Maris** Proceedings of the Estonian Academy of Sciences 2018 / p. 193–206 https://doi.org/10.3176/proc.2018.3.01 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Theorem on the differentiation of a composite function with a vector argument
Kaparin, Vadim; Kotta, Ülle Proceedings of the Estonian Academy of Sciences 2010 / 3, p. 195-200 https://artiklid.elnet.ee/record=b2163022*est

Tracking control of nonlinear pneumatic actuator systems using static state feedback linearization of the input-output map
Wang, Jihong; **Kotta, Ülle**; Ke, Jia Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2007 / 1, p. 47-66 : ill

Transfer functions of discrete-time nonlinear control systems
Halas, Miroslav; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2007 / 4, p. 322-335

Transfer matrix and its Jacobson form for nonlinear systems on time scales : mathematica implementation
Belikov, Juri; **Kotta, Ülle**; **Leibak, Alar** Full Papers : 18th International Conference on Process Control '11 : June 14-17, 2011, Tatransk Lomnica, Slovakia 2011 / p. 141-146

Transformation of nonlinear discrete-time state equations into the observer form : extension to non-reversible case
Mullari, Tanel; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2021 / p. 235-247 https://doi.org/10.3176/proc.2021.3.03 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Transformation of nonlinear discrete-time state equations into the observer form : revision
Mullari, Tanel; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2023 / p. 1-5 https://doi.org/10.3176/proc.2023.1.01 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Transformation of nonlinear discrete-time system into the extended observer form
Kaparin, Vadim; **Kotta, Ülle** International journal of control 2018 / p. 848-858 https://doi.org/10.1080/00207179.2017.1294264 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Transformation of nonlinear MIMO discrete-time systems into the extended observer form
Kaparin, Vadim; **Kotta, Ülle** Asian journal of control 2019 / p. 2208–2217 : ill https://doi.org/10.1002/asjc.1824 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Transformation of nonlinear state equations into observer form = Mittelineaarsete olekuvõrrandite olekutaastaja kujule teisendamine
Kaparin, Vadim 2013 https://www.ester.ee/record=b2998616*est

Transformation of nonlinear state equations into the observer form : necessary and sufficient conditions in terms of one-forms
Kaparin, Vadim; **Kotta, Ülle** Kybernetika 2015 / p. 36-58 https://doi.org/10.14736/kyb-2015-1-0036 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Transformation of the transfer matrix of the nonlinear system into the Jacobson form
Belikov, Juri; **Kotta, Ülle**; **Leibak, Alar** Proceedings of the 2010 IRAST International Congress on Computer Applications and Computational Science (CACS 2010) : 4-6 December 2010, Singapore 2010 / p. 495-498

Transforming a set of nonlinear input-ouput equations into Popov form
Bartosiewicz, Zbigniew; **Kotta, Ülle**; Pawluszewicz, Ewa; **Tõnso, Maris**; Wyrwas, Małgorzata 2015 54th IEEE Conference on Decision and Control (CDC) : date: 15-18 Dec. 2015 2015 / p. 7131 - 7136 https://doi.org/10.1109/CDC.2015.7403344 Conference Proceedings at Scopus Article at Scopus Article at WOS

Täppisteaduste valdkonna aastapreemia tööde tsükli "Algebralised meetodid matemaatilises juhtimisteoorias" eest : Ülle Kotta. Algebralised meetodid matemaatilises juhtimisteoorias
Kotta, Ülle Eesti Vabariigi preemiad 2018 : teadus. F. J. Wiedemanni keeleauhind. Kultuur. Sport 2018 / lk. 76-89 : portr

Universal tool for solving different control problems
Kotta, Ülle 5th Junior European Meeting on Control & Information Technology : September 20-22, 2006, Tallinn, Estonia : book of abstracts 2006 / p. 1

Weak reachability and controllability of discrete-time nonlinear systems: generic approach and singular points
Mullari, Tanel; **Kotta, Ülle**; Bartosiewicz, Zbigniew; Sarafrazi, Mohammad Amin; Moog, Claude; Pawluszewicz, Ewa International journal of control 2020 / p. 483-489 https://doi.org/10.1080/00207179.2018.1479076 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

WebMathematica-based tools for discrete-time nonlinear control systems
Tõnso, Maris; **Rennik, Heli**; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2009 / 4, p. 224-240

Ülle Kotta: A researcher seeks the best solution, the industry a functional one
Kotta, Ülle Estonian Centre of Excellence in ICT Research 2021 / p. 64-68 : ill http://www.digar.ee/id/nlib-digar:634779 https://www.ester.ee/record=b5456158*est

Автоматизированное проектирование многомерных линейных систем управления
Oit, Monika; Pajupuu, J.; Härmaorg, T.; **Jaaksoo, Ülo**; **Kotta, Ülle**; **Nurges, Ülo** VIII Всесоюзное совещание по проблемам управления : Таллин, октябрь 1980 : тезисы докладов. Книга 3 1980 / с. 597-600 https://www.ester.ee/record=b1275375*est

Идентификация многомерных линейных стационарных динамических систем : автореферат ... кандидата технических наук (05.13.01)
Kotta, Ülle 1980 https://www.ester.ee/record=b3545499*est

Управление дискретными обратимыми справа нелинейными системами : автореферат ... доктора физико-математических наук
Kotta, Ülle 1992 https://www.ester.ee/record=b1164884*est

Частичная декомпозируемость многомерных систем

Kotta, Ülle Eesti NSV Teaduste Akadeemia toimetised. Füüsika. Matemaatika = Известия Академии наук Эстонской ССР. Физика. Математика = Proceedings of Academy of Sciences of the Estonian SSR. Physics. Mathematics 1987 / lk. 30-35
https://www.ester.ee/record=b1264310*est