

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>

A transfer function approach to the realisation problem of nonlinear systems

Halas, Miroslav; **Kotta, Ülle** International journal of control 2012 / p. 320-331

Accessibility conditions of MIMO nonlinear control systems on homogeneous time scales

Bartosiewicz, Zbigniew; **Kotta, Ülle**; **Tönso, Maris**; Wyrwas, Małgorzata Mathematical control and related fields 2016 / p. 217-250
<https://doi.org/10.3934/mcrf.2016002>

Adjoint polynomial formulas for nonlinear state-space realization

Belikov, Juri; **Kotta, Ülle**; **Tönso, Maris** IEEE transactions on automatic control 2014 / p. 256-261

Comparison of LPV and nonlinear system theory : a realization problem

Belikov, Juri; **Kotta, Ülle**; **Tönso, Maris** Systems & control letters 2014 / p. 72-78

Credit-to-GDP ratios – non-linear trends and persistence: evidence from 44 OECD economies

Cuestas, Juan Carlos; Gil-Alana, Luis Alberiko; Malmierca, María Journal of economic studies 2023 / p. 448-463
<https://doi.org/10.1108/JES-12-2021-0637>

Decomposing comonad morphisms

Ahman, Danel; **Uustalu, Tarmo** 8th Conference on Algebra and Coalgebra in Computer Science : CALCO 2019, University College London, United Kingdom, 3-6 June 2019 2019 / art. 14 ; 20 p <https://doi.org/10.4230/LIPICs.CALCO.2019.14> [Conference proceeding at Scopus](#) [Article at Scopus](#)

ECG classification with event-driven sampling

Saeed, Maryam; **Märtens, Olev**; Larras, Benoit; Frappe, Antoine; John, Deepu; Cardiff, Barry IEEE Access 2024 / p. 25188-25199
<https://doi.org/10.1109/ACCESS.2024.3364115>

High level decision diagrams and characteristic polynomials

Karputkin, Anton Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK viienda aastakonverentsi artiklite kogumik : 25.-26. novembril 2011, Nelijärve 2011 / p. 143-146 : ill

Minimal realizations of nonlinear systems

Kotta, Ülle; Moog, Claude; **Tönso, 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](#)

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

New stability conditions via reflection coefficients of polynomials

Nurges, Ülo IEEE transactions on automatic control 2006 / 9, p. 1354-1360 : ill <https://ieeexplore.ieee.org/document/1506942>

On I-representations of polynomial algebras in quantum matrix spaces of rank 2

Bershtein, Olga Algebra and representation theory 2013 / [11] p

On conformal geospatial transformations with complex polynomials

Lippus, Jüri; Oja, Tõnu Proceedings of the Estonian Academy of Sciences 2012 / p. 65-70 : ill
https://www.kirj.ee/public/proceedings_pdf/2012/issue_1/Proc-2012-1-65-70.pdf

On robust control and nice stability via reflection coefficients

Nurges, Ülo Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 1999 / 1, p. 31-47: ill

Polynomial methods for nonlinear control systems = Polünoommeetodid mittelineaarsetes juhtimissüsteemides

Belikov, Juri 2012 http://www.ester.ee/record=b2854462*est

Realisation of linear time-varying systems

Kotta, Ülle; **Tönso, Maris** International journal of control 2017 / p. 1951-1956 <https://doi.org/10.1080/00207179.2016.1230891>

Realization of discrete-time nonlinear input-output equations : polynomial approach

Kotta, Ülle; **Tönso, Maris** Automatica 2012 / p. 255-262 <https://www.sciencedirect.com/science/article/pii/S0005109811005413>

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

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>

Reflection segments based stability domain approximation of the robust PID controller parameters

Avanessov, Sergei; Nurges, Ülo 2012 20th Mediterranean Conference on Control & Automation (MED), MED 2012 : Conference Proceedings : July 3-6, 2012, Catalonia Barcelona PlazaHotel, Barcelona, Spain 2012 / p. 204-209 : ill <https://ieeexplore.ieee.org/document/6265639>

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 assignment via reflection coefficients of polynomials

Nurges, Ülo Automatica 2006 / 7, p. 1223-1230 : ill

Robust pole assignment via stable polytopes of reflection vectors

Nurges, Ülo Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2006 / 2, p. 75-95 : ill

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 stability testing function for a complex interval family of fractional-order polynomials

Ghorbani, Majid; Rezaei, Hossein; Tepļakov, Aleksei; Petlenkov, Eduard Journal of the Franklin Institute 2022 / p. 10038 - 10057 <https://doi.org/10.1016/j.jfranklin.2022.09.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Stability of discrete-time systems via polytopes of reflection vector sets

Avanessov, Sergei; Nurges, Ülo Estonian journal of engineering 2012 / p. 291-301

Testing for long memory in the presence of non-linear deterministic trends with Chebyshev polynomials

Cuestas, Juan Carlos; Gil-Alana, Luis Alberiko Studies in nonlinear dynamics & econometrics 2016 / p. 57-74 : ill <https://doi.org/10.1515/snde-2014-0005>

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](#)

Об одном итерационном методе разложения многочленов на множители

Paluver, Nikolai 1955 https://www.ester.ee/record=b1390178*est <https://digikogu.taltech.ee/et/Item/e4ef64fa-4cd0-4268-8b09-7b9be1051171>

2D computational-numerical hardness comparison between fe-based hardfases with WC-Co reinforcements for integral-differential modelling

Casesnoves, Francisco Key engineering materials 2018 / p. 330 - 338 <https://doi.org/10.4028/www.scientific.net/KEM.762.330> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Using Edgeworth expansion approximating two- and three-dimensional probability distribution functions

Pihlak, Margus 2011 World Congress on Engineering and Technology (CET) Oct. 28 - Nov. 2, 2011, Shanghai, China 2011 / [4] p. https://www.engii.org/cet2011submission/files/upload/maatik_2011042820091607296.pdf

A versatile and flexible multiplier generator for Large integer polynomials

Imran, Malik; Abideen, Zain Ul; Pagliarini, Samuel Nascimento Journal of hardware and systems security 2023 / p. 55-71 <https://doi.org/10.1007/s41635-023-00134-2>

О некоторых многочленах наименьшего уклонения в метрике L2

Schats, Eugen Математика и теоретическая механика : сборник статей. 5 1970 / с. 23-26 https://www.ester.ee/record=b2189972*est <https://digikogu.taltech.ee/et/Item/3c00e8d1-e734-4bf3-b2a0-e0081b3050d2/>