

Connections in the bundles

Rahula, Mairo; **Mullari, Tanel** Векторные поля и симметрии 2004 / p. 199-236 : ill

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

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 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](#)

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](#)

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](#)

Füüsika. I : praktikumi tööjuhendid

2015 http://www.ester.ee/record=b4525849*est

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](#)

Nabla derivatives associated with nonlinear control systems on homogeneous time scales

Bartosiewicz, Zbigniew; Kotta, Ülle; Mullari, Tanel; Tönso, 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](#)

On accessibility conditions for state space nonlinear control systems on homogeneous time scales

Bartosiewicz, Zbigniew; Kotta, Ülle; Mullari, Tanel; Tönso, 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 the pressure of gravitational waves

Tammelo, R.; Mullari, Tanel General relativity and gravitation 2006 / 1, p. 1-13
https://www.researchgate.net/publication/226526191_On_the_pressure_of_gravitational_waves

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 relativistic tidal effects in the second approximation

Mullari, Tanel; Tammelo, R. Classical and quantum gravity 2006 / 12, p. 4047-4067
https://www.researchgate.net/publication/230975273_On_the_relativistic_tidal_effects_in_the_second_approximation

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

Removing the input derivatives in the generalized bilinear state equations

Mullari, Tanel; Kotta, Ülle; Kotta, Palle; Tönso, 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>

Static state feedback linearizability : relationship between two methods

Mullari, Tanel; Kotta, Ülle; Tönso, Maris Proceedings of the Estonian Academy of Sciences 2011 / 2, p. 121-135
https://artiklid.elnet.ee/record=b2413961*est

Tanel Mullari : doctor philosophiae teoreetilise füüsika alal. Teist järku relativistlik hälbevõrrand ja selle võrrandi rakendusi = PhD in theoretical physics. On the second order relativistic deviation equation and its applications

Mullari, Tanel Tartu Ülikooli doktorite promoveerimine = Doctoral degrees awarded at the University of Tartu : 2010 2010 / lk. 114-115

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; Tönso, Maris Proceedings of the European Control Conference 2007, Kos, Greece, July 2-5, 2007 2007 / p. 4268-4275 <http://ieeexplore.ieee.org/document/7068444/>

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](#)

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](#)