

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](#)

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>

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

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

A comparative analysis of Fuzzy AHP and Fuzzy VIKOR methods for prioritization of the risk criteria of an autonomous vehicle system

Mehrparvar, Marmar; Majak, Jüri; Karjust, Kristo Proceedings of the Estonian Academy of Sciences 2024 / p. 116-123 <https://doi.org/10.3176/proc.2024.2.04>

Comparative analysis of intelligent braking controllers for electric vehicles

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Renewable energy and power quality journal 2022 / p. 55-60 <https://doi.org/10.24084/repqj20.217> [Journal metrics at Scopus](#) [Article at Scopus](#)

Design of regenerative anti-lock braking system controller for 4 in-wheel-motor drive electric vehicle with road surface estimation

Aksjonov, Andrei; Vodovozov, Valery; Augsburg, Klaus; Petlenkov, Eduard International journal of automotive technology 2018 / p. 727-742 : ill <https://doi.org/10.1007/s12239-018-0070-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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>

Flexibility enhancement of hybrid microgrids using optimal H^∞ filtering-based fuzzy control of UIPC

Zolfaghari, Mahdi; Ahmadihangar, Roya; Gharehpetian, Gevork B.; Häring, Tobias; Rosin, Argo Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 451-455 <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161545>

Fuzzy control of energy recovery in electric vehicles with hybrid energy storage

Vodovozov, Valery; Aksjonov, Andrei; Ricciardi, Vincenzo; Raud, Zoja 2019 International Conference on Clean Electrical Power (ICCEP) 2019 / p. 345-350 : ill <https://doi.org/10.1109/ICCEP.2019.8890103>

Fuzzy gradient control of electric vehicles at blended braking with volatile driving conditions

Vodovozov, Valery; Petlenkov, Eduard; Aksjonov, Andrei; Raud, Zoja ICINCO 2020 : 17th International Conference on Informatics in Control, Automation and Robotics, July 7-9, 2020 : online 2020 / p. 250-261 <http://wikicfp.com/cfp/servlet/event.showcfp?eventid=97093©ownerid=45217>

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 logic control of clutch for hybrid vehicle

Vu, Trieu Minh 12th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Kuressaare, Estonia, June 11-16, 2012 2012 / p. 26-30 : ill

Fuzzy logic control of electric vehicles in changing braking conditions

Vodovozov, Valery; Raud, Zoja; Aksjonov, Andrei; Petlenkov, Eduard 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / art. 20192756, p. 107-112 <https://doi.org/10.1109/ICEPDS47235.2020.9249083>

Fuzzy logic control of three-rate decentralized optimal control submodels of the Lockheed L1011 Tristar aircraft

Astrov, Igor; Pedai, Andrus Proceedings of the 5th IEEE International Conference on Intelligent Engineering Systems : Helsinki, 2001 2001 / p. 41-46

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%3BCstern/a3aff429485b23df6fa100139e71f0e0345165eb>

Hägusus, hägusad süsteemid ja inimene : ettekanne XXXIV automaatikapäevil 12. märtsil 1996. a. TTÜ aulas
Sillamaa, Hanno Tallinna Tehnikaülikooli aastaraamat 1996 1997 / lk. 146-152

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>

Improved DC-Link voltage transient response and stability issues in energy router with fuzzy logic control method

Najafzadeh, Mahdiyyeh; Husev, Oleksandr; Roasto, Indrek; Jalakas, Tanel 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/RTUCON51174.2020.9316477>

Improved fractional open circuit voltage MPPT methods for PV systems

Baimel, Dmitry; Tapuchi, Saad; Levron, Yoash; Belikov, Juri Electronics 2019 / art. 321 <https://doi.org/10.3390/electronics8030321>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An integrated decision support system for the resilience assessment of eastern Baltic Sea coasts

Barzehkar, Mojtaba; Parnell, Kevin Ellis; Soomere, Tarmo CoastGIS 2021 : Sustainable Coastal Management in a Changing World : conference proceedings 2021 / p. 12 <https://www.novia.fi/assets/Projectsites/CoastGIS/CoastGIS-2021-Book-of-Abstracts.pdf>

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

Modelling a blended braking system of electric vehicles

Vodovozov, Valery; Aksjonov, Andrei 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 16-22 : ill http://ise.elnet.ee/record=b2949856~S2*est

Modelling of a versatile vehicle braking system with a fuzzy PID torque controller

Vodovozov, Valery; Raud, Zoja; Aksjonov, Andrei; Petlenkov, Eduard 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/BEC49624.2020.9276798>

A novel human-machine interface evaluation methodology for passenger vehicles

Aksjonov, Andrei 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 72-78 : ill

http://www.ester.ee/record=b4763182*est http://ise.elnet.ee/record=b2950019~S2*est

Parameter identification of an induction motor using fuzzy logic controller

Lehtla, Tõnu PEMC'96 : 7th International Power Electronics & Motion Control Conference, Exhibition, Tutorials, Budapest, Hungary, 2-4 September, 1996 : proceedings. Volume 3 of 3 1996 / p. 3/292-3/296: ill

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

Robust speed controllers with autotuning for electrically driven equipment

Aksjonov, Andrei; Serbin, Aleksandr; Vodovozov, Valery; Raud, Zoja 2019 26th International Workshop on Electric Drives : Improvement in Efficiency of Electric Drives (WED) : Moscow Power Engineering Institute, Moscow, Russia, 30th of January - 2nd of February 2019 : proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/WED.2019.8664397>

Speed control of electric vehicle propulsion with autotuning at changeable driving modes and road conditions

Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard 2019 IEEE International Conference on Mechatronics (ICM) : proceedings 2019 / p. 584-589 : ill <https://doi.org/10.1109/ICMECH.2019.8722909>

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

Three-dimensional crane modelling and control using Euler-Lagrange state-space approach and anti-swing fuzzy logic
Aksjonov, Andrei; Vodovozov, Valery; Petlenkov, Eduard Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2015 / p. 5-13 : ill <http://dx.doi.org/10.1515/ecce-2015-0006>

Torque control in blended antilock braking systems of electric vehicles [Online resource]
Vodovozov, Valery; Petlenkov, Eduard; Raud, Zoja; Aksjonov, Andrei BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <https://doi.org/10.1109/BEC.2018.8600978>

Trajectory generation for autonomous mobile robots
Vu, Trieu Minh Computational intelligence for decision support in cyber-physical systems 2014 / p. 195-214 : ill https://doi.org/10.1007/978-981-4585-36-1_6 [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article collection metrics at WOS](#) [Article at WOS](#)

Trajectory phase-plane method - based analysis of stability and performance of a fuzzy logic controller for an anti-lock braking system
Aksjonov, Andrei; Ricciardi, Vincenzo; **Vodovozov, Valery;** Augsburg, Klaus 2019 IEEE International Conference on Mechatronics (ICM) : proceedings 2019 / p. 602-607 : ill <https://doi.org/10.1109/ICMECH.2019.8722831>

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

Использование нечеткой логики для управления тепловыми процессами
Podobed, M.; Karpovich, Dzmitry; **Rassõlkin, Anton** Нефтехимия - 2018 : материалы I Международного научно-технического форума по химическим технологиям и по нефтегазопереработке, Минск, 27-30 ноября 2018 г. Ч. 1 2018 / с. 270–274 <https://elib.belstu.by/handle/123456789/27138> <https://elib.belstu.by/bitstream/123456789/27138/1/neftepererabotka-2018.%20Ch.%201.pdf>