

### **Adaptability, interpretability and rule weights in fuzzy rule-based systems**

**Riid, Andri; Rüstern, Ennu** Information sciences 2014 / p. 301-312 : ill

### **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>

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

**Mehrpavar, 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<sup>∞</sup> 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&copyownerid=45217>

### **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%3C%BCstern/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 transparent, compact, accurate and reliable linguistic fuzzy models**

**Riid, Andri; Rüstern, Ennu** Information sciences 2011 / p. 4378-4393

**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](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](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://www.ester.ee/record=b4763182*est) [http://ise.elnet.ee/record=b2950019~S2\\*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 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](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](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

**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](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

**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>