

**A multistage procedure of mobile vehicle acoustic identification for single-sensor embedded device**

**Astapov, Sergei; Riid, Andri** International journal of electronics and telecommunications 2013 / p. 151-160 : ill

**A solution to perceptual aliasing through probabilistic fuzzy logic and SIFT**

**Qamar, Syeda Madiha; Iqbal, Khawaja Fahad; Muhammad, Naveed** 2013 IEEE/ASME International Conference on Advanced Intelligent Mechatronics : Mechatronics for Human Wellbeing : July 9-12, 2013, Wollongong, Australia 2013 / p. 1393-1398 : ill

**An enhancement of the driver distraction detection and evaluation method based on computational intelligence algorithms**

**Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard** 2018 IEEE 16th International Conference on Industrial Informatics (INDIN 2018) : Porto, Portugal, 18-20 July 2018 2018 / p. 201-206 : ill <https://doi.org/10.1109/INDIN.2018.8472045>

**Artificial intelligence methods for data based modeling and analysis of complex processes : real life examples [Online resource]**

**Vassiljeva, Kristina; Petlenkov, Eduard; Vansovits, Vitali; Tepljakov, Aleksei** Proceedings of the 2016 IEEE First International Conference on Data Stream Mining & Processing (DSMP) : Lviv, Ukraine, August 23-27, 2016 2016 / p. 363-368 : ill <https://doi.org/10.1109/DSMP.2016.7583579>

**Clutch control and vibration reduction for a hybrid electric vehicle**

**Vu, Trieu Minh** Proceedings of the Institution of Mechanical Engineers. Part I, Journal of systems and control engineering 2012 / p. 867-874 : ill <https://journals.sagepub.com/doi/10.1177/0959651812445842?icid=int.sj-full-text.similar-articles.1>

**Combining multiple sound sources localization hybrid algorithm and fuzzy rule based classification for real-time speaker tracking application**

**Ibala, Christian; Astapov, Sergei; Riid, Andri** International journal of microelectronics and computer science 2013 / p. 12-25 : ill

**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](#)

**Detection and evaluation of driver distraction using machine learning and fuzzy logic**

**Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard; Herrmann, Martin** IEEE Transactions on Intelligent Transportation Systems 2019 / p. 2048 - 2059 <https://doi.org/10.1109/TITS.2018.2857222> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fuzzy logic and slip controller of clutch and vibration for hybrid vehicle**

**Vu, Trieu Minh;** Pumwa, John International journal of control, automation and systems 2013 / p. 526-532 : ill

**Fuzzy logic control for a ball and beam system**

**Moezzi, Reza; Vu, Trieu Minh; Tamre, Mart** International Journal of Innovative Technology and Interdisciplinary Sciences : IJTIS 2018 / p. 39-48 : ill <https://doi.org/10.1515/IJTIS.2018.1.1.39-48>

**Fuzzy logic control for non-linear model of the ball and beam system**

**Moezzi, Reza; Vu, Trieu Minh** Proceedings of the 11th International Conference of DAAAM Baltic Industrial Engineering : 20-22th April 2016, Tallinn, Estonia 2016 / p. 60-65 : ill <http://innomet.ttu.ee/daaam/>

**A hierarchical algorithm for moving vehicle identification based on acoustic noise analysis**

**Astapov, Sergei; Riid, Andri** Proceedings of the 19th International Conference Mixed Design of Integrated Circuits and Systems : MIXDES 2012 : Warsaw, Poland, 24-26 May, 2012 2012 / p. 467-472 : ill <https://ieeexplore.ieee.org/document/6226235>

**A method for detection and evaluation of driver distraction induced by in-vehicle information systems**

**Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 4513-4518 : ill <https://doi.org/10.1109/IECON.2018.8591252>

**A method of driver distraction evaluation using fuzzy logic : phone usage as a driver's secondary activity : case study**

**Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard; Herrmann, Martin** Proceedings : IACAT 2017 : XXVI International Conference on Information, Communication and Automation Technologies, October 26-28, 2017, Sarajevo, Bosnia-Herzegovina 2017 / 6 p. : ill <https://doi.org/10.1109/IACAT.2017.8171599>

**Methods of condition monitoring and fault detection for electrical machines**

**Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants;** Khang, Huynh Van Energies 2021 / art. 7459, 20 p. : ill <https://doi.org/10.3390/en14227459> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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>

**An overview of fuzzy logic approaches for fault diagnosis in energy conversion devices**

**Demidova, Galina; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants; Zakis, Janis; Suzdalenko, Alexander** 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 7 p  
<https://doi.org/10.1109/IWED52055.2021.9376389>

**Review on Braking Energy Management in Electric Vehicles**

**Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard** Energies 2021 / art. 4477 <https://doi.org/10.3390/en14154477> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Self-scaling laboratory crane fuzzy logic control with anti-swing regulation [Online resource]**

**Aksjonov, Andrei; Vodovozov, Valery; Petlenkov, Eduard** 2016 57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : October 13, 14, 2016 : conference proceedings 2016 / [6] p. : ill  
<https://doi.org/10.1109/RTUCON.2016.7763088>

**Simulation of two-rate adaptive neural network and fuzzy logic hybrid control for stochastic model of an experimental aircraft**

**Astrov, Igor; Pedai, Andrus; Rüstern, Ennu** Canadian Conference on Electrical and Computer Engineering 2004 = Conference canadienne en genie électrique et informatique : May 2-5, 2004, Fallsview Sheraton, Niagara Falls, Canada : proceedings. Vol. 1 2004 / p. 125-128 : ill

**Towards an Intelligent Control System for district heating plants : design and implementation of a fuzzy logic based control loop**

**Vansovitš, Vitali; Tepļakov, Aleksei; Vassiljeva, Kristina; Petlenkov, Eduard** 2016 IEEE 14th International Conference on Industrial Informatics (INDIN) : Palais des Congrès du Futuroscope, Futuroscope - Poitiers, France, 19-21 July, 2016 : proceedings 2016 / p. 405-410 : ill <https://doi.org/10.1109/INDIN.2016.7819193>