Lista lucrari stiintifice

Adrian-Iulian BREZULIANU

1. Carti / monografii

1. A. Brezulianu – Sisteme fuzzy şi aplicaţii, Editura Tehnici şi Tehnologii, 2002, Iaşi, ISBN 0-973-97737-1-0, pp. 1-247.

2. A.Brezulianu, M.Fira – Procesarea semnalelor biomedicale si aplicatii, Editura Politehnium, Iasi, 2010, ISBN: 978-973-621-308-3, pp 1-244

3. A. Brezulianu, E. Mihăilescu, A. Toderiţă - Reţele de calculatoare si aplicaţii, Editura Politehnium, 2010, Iaşi, 410 pag.

4. A. Brezulianu, E. Mihailescu, D.Pintilie – Retele de calculatoare si aplicatii (indrumar laborator), Editura Politehnium, 2013, Iasi, ISBN: 978-973-621-391-4, 259 pag.

5. H.N. Teodorescu, A. Brezulianu - Chapter 2.2: Fuzzy Control of Analog PLL's - Fuzzy Systems in Economics and Engineering, Editors: Al.P.Tacu, Jaime G.Aluja, H.N.Teodorescu, Romanian Academy Publishing House, Bucureşti, 1994, ISBN 973-27-0469-1, pp. 206-217, pag. 12.

6. H.N.Teodorescu, A.Brezulianu – Procesarea imaginilor şi a semnalului vocal – proiectare şi aplicaţii, Universitatea Tehnică "Gh. Asachi" Iaşi, 1997, 121 pp

2. Articole publicate în reviste cotate ISI, cu factor de impact

1. VD Kumar, J. Praveenchandarm M. Arif, A. Brezulianu, O. Geman, A. Ikram (2023), " Efficient Cloud Resource Schedulling with an Optimized Throttled Load Balancing Approach, Computer, Materials & Continua 77 (2), https://cdn.techscience.cn/files/cmc/2023/TSP_CMC-77-2/TSP_CMC_34764/TSP_CMC_34764.pdf, (impact factor 3,1)

2. A. Brezulianu, O.Geman, IV Popa (2023), Artificial Intelligence Component of the Ferodata AI Engine to Optimize the Assignment of Rail Freight Locomotive Drivers, Applied Sciences 13 (20), 11516, https://www.mdpi.com/2076-3417/13/20/11516, (impact factor 2,7)

3. Munisamy Shyamala Devi, Venkatesan Dhilip Kumar, Adrian Brezulianu, Oana Geman, Muhammad Arif (2023) "A Novel Blunge Calibration Intelligent Feature Classification Model for the Prediction of Hypothyroid Disease", https://www.mdpi.com/1424-8220/23/3/1128, Sensors 23 (3), 1128, https://www.mdpi.com/1424-8220/23/3/1128 (impact factor 3,9)

4. Khalid Hamid, Muhammad Waseem Iqbal, Qaiser Abbas, Muhammad Arif, Adrian Brezulianu, Oana Geman (2023) "Cloud Computing Network Empowered by Modern Topological Invariants", https://www.mdpi.com/2076-3417/13/3/1399 (impact factor 2,7)

5. Yousaf, M W Iqbal, M Arif, A Jaffar, A Brezulianu, O Geman (2022) "Adoption of Conceptual Model for Smartphones among Older People", *Appl. Sci.* **2022**, *12*(24), 12703; **https://doi.org/10.3390/app122412703**, (impact factor: 2.838) https://www.mdpi.com/journal/applsci/stats

6. M Mukhtar, F Yunus, A Alqahtani, M Arif, A Brezulianu, O Geman (2022) "The Challenges and Compatibility of Mobility Management Solutions for Future Networks", *Appl. Sci.* **2022**, *12*(22), 11605; https://doi.org/10.3390/app122211605, (impact factor: 2.838)

7. K Hamid, M Waseem Iqbal, Q Abbas, M Arif, A Brezulianu, O Geman (2022) "Discovering Irregularities from Computer Networks by Topological Mapping", *Appl. Sci.* **2022**, *12*(23), 12051; **https://doi.org/10.3390/app122312051** (impact factor: 2.838)

8. Brezulianu A, Burlacu A, Popa IV, Arif M and Geman O (2022) "Not by Our Feeling, But by Other's Seeing": Sentiment Analysis Technique in Cardiology—An Exploratory Review. Front. Public Health 10:880207. doi: 10.3389/fpubh.2022.880207, https://www.frontiersin.org/articles/10.3389/fpubh.2022.880207/full (impact factor: 5.2)

9. A Burlacu, C Brinza, A Brezulianu, A Covic, "Accurate and early detection of sleepiness, fatigue and stress levels in drivers through heart rate variability parameters: a systematic review", Reviews in cardiovascular medicine, vol. 22, 3, pp. 845-852, 2021, http://venus-pro-bucket.s3.amazonaws.com/journal/RCM/22/3/10.31083/j.rcm2203090/2153-8174-22-3-845.pdf (impact factor: 4.43)

10. Sebastian Balos, Daniel Howard, Adrian Brezulianu, Danka Labus Zlatanovi, "Perforated Plate for Ballistic Protection—A Review", Metals 2021, 11(4), 526, https://doi.org/10.3390/met11040526 (impact factor: 2,695) https://www.mdpi.com/journal/metals

11. A. Brezulianu, O. Geman, M. Arif, I. Chiuchisan, O. Postolache, "Epidemiologic evolution platform using integrated modeling and geographic information system," Computers, Materials & Continua, vol. 67, no.2, pp. 1645–1663, 2021, https://www.techscience.com/cmc/v67n2/41317 (impact factor: 3,86) https://www.techscience.com/journal/cmc

12. I.Zagan, V.G.Găitan, A.I.Petrariu, N.Iuga, A.Brezulianu, Computers 2020, 9, 15, "Design, Fabrication, and Testing of an IoT Healthcare Cardiac Monitoring Device", https://www.mdpi.com/2073-431X/9/1/15 (impact factor: 2,8)

13. Yoseph Fahed, Ahamed Hassain Malim Nurul Hashimah, Heikkilä Markku, Brezulianu Adrian, Geman Oana, Paskhal Rostam Nur Aqilah, The impact of big data market segmentation using data mining and clustering techniques, Journal of Intelligent & Fuzzy Systems, JIFS-179698, pp. 1-15, March 2020, https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs179698?resultNumber=0&totalResults=820&start=0&q=The+impact+of+big+data+market+segmentation+using+data+mining+and+clustering+techniques&resultsPageSize=10&rows=10 (impact factor: 2)

14. Muhammad Arif ,Guojun Wang, Oana Geman ,Valentina Emilia Balas, Peng Tao, Adrian Brezulianu, Jianer Chen, Applied Sciences 2020, 10, 9, SDN-based VANETs, Security Attacks, Applications, and Challenges, https://www.mdpi.com/2076-

[3417/10/9/3217](#) (impact factor: 2,679)

15. Brezulianu, A.; Geman, O.; Zbancioc, M.D.; Hagan, M.; Aghion, C.; Hemanth, D.J.; Son, L.H. IoT Based Heart Activity Monitoring Using Inductive Sensors, Sensors 2019, 19, 3284, [https://www.mdpi.com/1424-8220/19/15/3284,](https://www.mdpi.com/1424-8220/19/15/3284) https://www.mdpi.com/journal/sensors/imprint (impact factor: 3,30)

16. Adrian Brezulianu; Cristian Aghion; Marius Hagan; Oana Geman; Iuliana Chiuchisan; Alexandra Balan; Doru Balan; Valentina Emilia Balas, Active Control Parameters Monitoring for Freight Trains, using Wireless Sensor Network Platform and Internet of Things, Processes, 2020, 8(6), 639, [https://doi.org/10.3390/pr8060639,](https://doi.org/10.3390/pr8060639) https://www.mdpi.com/journal/processes (impact factor: 3,5)

17. Daniel Howard, Adrian Brezulianu, Joseph Kolibal - Genetic Programming of the Stochastic Interpolation Framework: Convection Diffusion Equation Soft Computing, Springer, ISSN 1432-7643, (impact factor: 1,271)

18. Daniel Howard, Joseph Kolibal, Adrian Brezulianu - Engineering Presentation of the Stochastic Interpolation Framework and its Applications, Soft Computing, Springer, ISSN 1432-7643, (impact factor: 1,328)

3. Articole publicate în reviste indexate in baze de date internaţionale (BDI)

1. C. Aghion, A. Brezulianu, M. Hagn, BE Madsen, A. Kristenssen, 2023 International Synposium on Signals, Circuits and Systems (ISSCS), 1-4, "Device for tracking functional paramters for freight trains", https://ieeexplore.ieee.org/abstract/document/10190930

2. Daniel Howard, Adrian Brezulianu, Homology, Analogy and Cybernetics Ideas could help the counter terrorism effort, Romanian Intelligence Studies Review, no.11/June 2014, pp.25-32, ISSN 2067-3353.

3. Daniel Howard, Simon C. Roberts, Conor Ryan, Adrian Brezulianu – Textural Classification of Mammographic Parenchymal Patterns with the SONNET Selforganizing Neural Network, Journal of Biomedicine and Biotechnology Volume 2008, Article ID 526343

4. A. Brezulianu, Monica Fira, E. Gazzi, L. Sorodoc: „A Computerized Data Analysis Method for Electrogastrogaphyc Signals", Revista Medico-Chirurgicala a societatii de medici si naturalisti din Iasi, volumul 113 (2009), numarul 1 , pp. 120, ISSN: 0048-7848 (Eurasip)

4. Articole publicate în volumul unor manifestări ştiinţifice indexate in baze de date internaţionale

1. Brezulianu A, Fira M, Fira L. A genetic algorithm approach for a constrained employee scheduling problem as applied to employees at mall type shops. InProceedings of the 2009 International Conference on Hybrid Information Technology 2009 Aug 27 (pp. 497-501), https://dl.acm.org/doi/abs/10.1145/1644993.1645085

2. Teodorescu HN, Mlynek D, Kandel A, Ropota I, Teodorescu C, Posa C, Brezulianu A,

Ciorap R. Analysis of chaotic movements and fuzzy assessment of hands tremor in rehabilitation. In1998 Second International Conference. Knowledge-Based Intelligent Electronic Systems. Proceedings KES'98 (Cat. No. 98EX111) 1998 Apr 21 (Vol. 3, pp. 340-345). IEEE.
https://ieeexplore.ieee.org/abstract/document/725992

3. Zagan I, Gaitan VG, Iuga N, Brezulianu A. M-GreenCARDIO embedded system designed for out-of-hospital cardiac patients. In2018 international conference on development and application systems (DAS) 2018 May 24 (pp. 11-17). IEEE.
https://ieeexplore.ieee.org/abstract/document/8396063

4. Teodorescu, H.N., Gil Aluja, J., Wentland-Forte, M., Gil Lafuente, A.-M., Tacu, Al.P., Brezulianu, A., Analysis of a chaotic trade models and improved chaotic fuzzy trade models, Proc. of the 3rd Conference on Fuzzy Logic, Neural Nets and Soft Computing, Iizuka, Japan, 1994

5. A. Brezulianu, I. Popa, O. Geman, I. Chiuchisan and C. Nastase: GreenChain: a solana blockchain-based management platform for academic/commercial areas. In: 2022 E-Health and Bioengineering Conference (EHB), pp. 1–5Iasi, Roma (2022).
https://doi.org/10.1109/EHB55594.2022.9991630

6. A. Brezulianu, I. Popa, O. Geman, I. Chiuchisan and C. Nastase, "Integrated Extended SIR-type Epidemiological Modeling Platform for Covid-19," *2022 E-Health and Bioengineering Conference (EHB)*, Iasi, Romania, 2022, pp. 1-5, doi: 10.1109/EHB55594.2022.9991549.
https://ieeexplore.ieee.org/abstract/document/9991549

7. Teodorescu, H.N.; Brezulianu, A., Complete and incomplete fuzzy logic controllers, Proceedings of the Korean Institute of Intelligent Systems Conference, Korean Institute of Intelligent Systems, Korea, 1993

8. Brezulianu A., Popa I.V. AI FERODATA Application Enriched with Artificial Intelligence Models to Optimize Freight Transport, Proceedings of the Fifth International Conference on Railway Technology: Research, Development and Maintenance, Montpellier, France, 2022.
https://www.ctresources.info/ccc/paper.html?id=9678

9. Howard, Daniel; Roberts, Simon C.; Brezulianu, Adrian; Ryan Conor. Initial exploitation of the SONNET derived taxonomy of mammographic parenchymal patterns, Conference: Conference on Frontiers in the Convergence of Bioscience and Information Technologies Location: Cheju Isl, SOUTH KOREA Date: OCT 11-13, 2007, PROCEEDINGS OF THE FRONTIERS IN THE CONVERGENCE OF BIOSCIENCE AND INFORMATION TECHNOLOGIES Pages: 390-+ Published: 2007 (ISI, IEEE Xplore), https://ieeexplore.ieee.org/document/4524138

25.01.2024