

PERSONAL INFO

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POSITION

Board member

PROFESSIONAL EXPERIENCE

1992-present Professor / Electronic Engineer, Ph.O. programs coordonator for Smart IoT
„Gheorghe Asachi” Technical University of Iași, România
Faculty of Electronics, Telecommunications and Information Technology

2002-present CEO al GREENSOFT SRL Iași
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EDUCATION

2024-2024 Ph.O. coordinator
„Gheorghe Asachi” Technical University of Iași, România

1992-present Professor dr.eng.

1993-1999 Ph.O. studies
Ph.O. Thesis "Contributia in analiza dinamica a sistemelor fuzzy cu aplicatii in ingineria biomedicala"
„Gheorghe Asachi” Technical University of Iași, România

1987-1992 Electronic Engineer
„Gheorghe Asachi” Technical University of Iași, România
Faculty of Electronics, Telecommunications and Informaton Technology

Books

1. A Brezulianu - Sisteme informatice deschise. Complemente teoretice, de securitate și studii de caz, Editura Universitatii Tehnice "Gheorghe Asachi" din Iasi, 2024, ISBN: 978-973-621-552-0, 219 pag.
2. ABrezulianu, M.Fira - Procesarea semnalelor biomedicale si aplicatii, Editura Pol[eh]nium, Iasi, 2010, ISBN: 978-973-621-308-3, pp 1-244
3. A Brezulianu, E. Mihăilescu, A. Toderiță - Rețele de calculatoare si aplicații, Editura Politehniun, 2010, Iași, 410 pag.
4. A Brezulianu, E. Mihăilescu, DPintilie - Rețele de calculatoare si aplicatii (îndrumar laborator), Editura Politehniun, 2013, Iasi, ISBN: 978-973-621-3914, 259 pag.
5. A Brezulianu -Sisteme fuzzy și aplica i, Editura Tehnici și Tehnologii, 2002, Iași, ISBN 0-973-97737-1-0, pp. 1-247.
6. H.N. Teodorescu, A Brezulianu - Chapter 2.2: Fuzzy Control of Analog PLL's - Fuzzy Systems în Economics and Engineering, Ed[ors: Al.P.Tacu, Jaime G.Aluja, H.N.Teodorescu, Romanian Academy Publishing House, București, 1994, ISBN 973-27-0469-1, pp. 206-217, pag. 12
7. H.N.Teodorescu, ABrezulianu - Procesarea imaginilor și a semnalului vocal - proiectare și aplicatii, Universitatea Tehnică "Gh. Asachi" Iași, 1997, 121 pp

Impact factor articles

1. VD Kumar, J Praveenchandarm M Aril, A Brezulianu, O. Geman, A Ikram (2023), "Efficient Cloud Resouroe Scheduling 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 FerodataAI 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 Dhillip Kumar, Adrian Brezulianu, Oana Geman, Muhammad Aril (2023) "A Novei Blunge Calibration Intelligent Feature Classification Model for the Prediction of Hypothyroid Disease", Applied Scienoes 13 (3), 1399, <https://www.mdpi.com/1424-8220/23/3/1128> (impact factor 3,9)
4. Khalid Hamid, Muhammad Waseem Iqbal, Qaiser Abbas, Muhammad Aril, 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, MW Iqbal, M Aril, 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/applsc/vstats>
6. M Mukhtar, F Yunus, AAlqahtani, M Aril, A Brezulianu, O Geman (2022) "The Challenges and Compatibility of Mobillity Management Solufions for Future Networks", Appl. Sci. 2022, 12(22), 11605; [hllps://doi.org/10.3390/app122211605](https://doi.org/10.3390/app122211605), (impact factor: 2.838)
7. K Hamid, MWaseem Iqbal, QAbbas, 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)
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9. A Burlacu, C Brinza, A Brezulianu, A Covic, "Accurate and early detection of sleepiness, fatigue and stress levels în drivers through heart rate variability parameters: a systematic review", Reviews în cardiovascular medicine, voi 22, 3, pp. 845-852, 2021, [hlp://venus-pro-bucket.s3.amazonaws.com/purnal/RCM/22/3/10.31083/j.rcm2203090/2153-8174-22-3-845.pdf](http://venus-pro-bucket.s3.amazonaws.com/purnal/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. Aril, I. Chiuchisan, O. Postolache, "Epidemiologic evolution platform using integrated modeling and geographic infom,ation system," Computers, Materials & Continua, voi 67, no.2, pp. 1645-1663, 2021, <https://www.lechscience.com/lcm/v67n2/41317> (impact factor: 3,86) <https://www.techscience.com/journal/cmc>
12. IZagan, VG.GMan, AJPetrariu, N.Iuga, ABrezulianu, Computers 2020, 9, 15, "Design, Fabrication, and Testing of an IoT Healthcare Cardiac Moniloring 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 dustering techniques, Journal of Intelligent & Fuzzy Systems, JIFS-179698, pp. 1-15, March 2020, <https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/jifs179698?resultNumber=0&totalResults=820&stat=0&q=The+impact+of+big+data+market+segmentation+using+data+mining+and+dustering+techniques&resultsPageSize=10&rows=10> (impact factor: 2)
14. Muhammad Aril ,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 HeartActivity Monitoring Using Inductive Sensors, Sensors 2019, 19, 3284, <https://www.mdpi.com/1424-8220/19/15/3284>, https://www.mdpi.com/_pumal/sensorsfingerprint(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://www.mdpi.com/pumal/processes> (impact factor: 3,5)
17. Daniel Howard, Adrian Brezulianu, Joseph Kolibal- Genetic Programming ofthe 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 ts Applications, Soft Computing, Springer, ISSN 1432-7643, (impact factor: 1,328)

Other articles

1. C. Aghion, A. Brezulianu, M. Hagn, BE Madsen, A. Kristenssen, 2023 Intemational Symposium 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 Cybematics 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 - Texturai Classification of Mammographic Parenchymal Patterns with the SONNET Selforganizing Neural Network, Journal of Biomedicine and Biotechnology Volume 2008, MeIe 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 lasi, volumul 113 (2009), numarul 1 , pp. 120, ISSN: 0048-7848 (Eurasip)

IP international

1. Patent USA - EinDrink Reg.No. 5,326,430
2. Patent EUIPO- MEROOR, No. 017882036

R&D projects as director

1. Grant „Cercetarea și realizarea unor soluții inovative de monitorizare a consumurilor în instala ile tehnice utilizând inteligenta artificială”, Cod SMIS: 121866, Universitatea Tehnica "Gheorghe Asachi" & Compania REMONI Danemarca, Responsabil Proiect Universitatea Tehnica "Gheorghe Asachi", 2021 - 2023 (3 ani)
2. Grant proiect POS-DRU "Telecomunicatiile mai aproape de student" POSDRU/109/2.1./G/81641, Universitatea Tehnica "Gheorghe Asochi" & Compania Mobilis Romania, 2012-2013 (2 ani)
3. Grant PN Ii, AUTOMATIC ECG SIGNALANALYSIS FOR TELEMEDICINE APPLICATIONS, Universitatea Tehnica "Gheorghe Asochi" & Universitatea Incheon, South-Korea, Responsabil Proiect Universitatea Tehnica "Gheorghe Asochi", 2009 (1 an)
4. GrantAEROSPATIAL- ROSA, ADVANCED ACCELEROMETER MEASUREMENT SYSTEM FOR INVESTIGATING ATMOSPHERIC SPACECRAFT, Universitatea Tehnica "Gheorghe Asachi" & ROSA, 2004-2006, Responsabil Proiect Universitatea Tehnica "Gheorghe Asachi", (3 ani)
5. Grant CEEEX-VIASAN, AUTOMATIC DIAGNOSTIC FOR DYSFUNCTIONAL DENTAL SYNDROME SYSTEMS, Universtatea Tehnica "Gheorghe Asachi" & Universitatea de Medicina si Farmocie "Gr.T.Popa", 2005-2008, Responsabil Proiect Universitatea Tehnica "Gheorghe Asachi", (3 ani)

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10. 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>
11. 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://www.mdpi.com/purnal/processes>
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13. F Yoseph, NH Ahamed Hassain Malim, M Heikkilä, A Brezulianu, ..., "The impact of big data market segmentation using data mining and clustering techniques", *Journal of Intelligent & Fuzzy Systems* 38 (5), 6159-6173, <https://contentiospress.com/articles/purnal-of-intelligent-and-fuzzy-systems/ifs179698>
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16. I Zagan, VG Gaitan, AI Petrariu, A Brezulianu, "Healthcare IoT m-GreenCARDIO Remote Cardiac Monitoring System-Concept, Theory of Operation and Implementation", *Advances in Electrical and Computer Engineering* 17 (2), 23-30, <https://www.proquest.com/openview/bf64fa43a81e5e61eda81ccb13e702eb/1?pq-origsite=gscholar&cbl=2049588>

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2. Implementing an integrated information system designed for Romanian public entities
M Udriou, M Dumitrache, I Sandu, A Brezulianu
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3. M-GreenCARDIO embedded system designed for out-of-hospital cardiac patients
I Zagan, VG Gaitan, N Iuga, A Brezulianu
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A Brezulianu, L Fira, M Fira
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6. Electrocardiographic signal processing applications in telemedicine
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7. A genetic algorithm approach for a constrained employee scheduling problem as applied to employees at mail type shops
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8. Analysis of chaotic movements and fuzzy assessment of hand tremor in rehabilitation
HN Teodorescu, D Mlynek, A Kandel, I Ropota, C Teodorescu, C Posa, ...
1998 International Conference. Knowledge-Based Intelligent Electronic ...

Committees

1. "Deputy Leader" in Comisia NATO, NATO Industrial Advisory Group (NIAG) SG 282 "SmartAmunition" (2022-2024)
2. Membru in Comisia NATO, NATO Industrial Advisory Group (NIAG) SG 306 "Digital Thread, Digital Twins" (2024-2025)
3. Membru in Comisia NATO, NATO Industrial Advisory Group (NIAG) SG 318 "ASW" (2025-present)

03.06.2026

Brezulianu Adrian Iulian