




INFORMAȚII PERSONALE

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Data nașterii 17.12.1967 | Naționalitatea Română

POZIȚIA PENTRU CARE SE
CANDIDEAZĂ

Profesor universitar

EXPERIENȚA PROFESIONALĂ

1992-prezent Cadru didactic universitar
profesor doctor inginer, coordonator de doctorat in domeniul ingineriei electronice
Activități didactice și de cercetare
Universitatea Tehnică „Gheorghe Asachi” Iași, România
Facultatea de Electronica, Telecomunicações și Tehnologia Informației

2002-prezent CEO al GREENSOFT SRL Iași
www.greensoft.com.ro
Tipul sau sectorul de activitate IT&C

EDUCAȚIE ȘI FORMARE

2024-2024 Abilitare pentru conducere doctorat
Universitatea Tehnică „Gheorghe Asachi”, Iași, România

1993-1999 Studii de doctorat
PhD, 1999
Titlul tezei de doctorat: "Contribuția în analiza dinamică a sistemelor fuzzy cu aplicații în
ingineria biomedicală"
Universitatea Tehnică „Gheorghe Asachi”, Iași, România

1987-1992 Studii universitare
Inginer
Universitatea Tehnică „Gheorghe Asachi” Iași, România
Facultatea de Electronică, Telecomunicações și Tehnologia Informației

Carti / monografii

1. A. Brezulianu – Sisteme informatice deschise. Complemente teoretice, de securitate si studii de caz, Editura Universitatii Tehnice “Gheorghe Asachi” din Iasi, 2024, ISBN: 978-973-621-552-0, 219 pag.
2. A. Brezulianu, M. Fira – Procesarea semnalelor biomedicale si aplicatii, Editura Politehnicum, Iasi, 2010, ISBN: 978-973-621-308-3, pp 1-244
3. A. Brezulianu, E. Mihăilescu, A. Toderiță - Rețele de calculatoare si aplicații, Editura Politehnicum, 2010, Iași, 410 pag.
4. A. Brezulianu, E. Mihailescu, D. Pintilie – Rețele de calculatoare si aplicatii (indrumar laborator), Editura Politehnicum, 2013, Iasi, ISBN: 978-973-621-391-4, 259 pag.
5. A. Brezulianu – Sisteme fuzzy și aplicații, 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 in Economics and Engineering, Editors: 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, A. Brezulianu – Procesarea imaginilor și a semnalului vocal – proiectare și aplicații, Universitatea Tehnică “Gh. Asachi” Iași, 1997, 121 pp

 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 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 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”, Applied Sciences 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 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/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://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)

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1. C. Aghion, A. Brezulianu, M. Hagn, BE Madsen, A. Kristenssen, 2023 International Symposium on Signals, Circuits and Systems (ISSCS), 1-4, "Device for tracking functional parameters 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 societatiilor de medici si naturalisti din Iasi, volumul 113 (2009), numarul 1 , pp. 120, ISSN: 0048-7848 (Eurasip)

Proprietate intelectuala / brevete de inventie / internationale

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

Grant-uri castigate prin competitie (director de proiect)

1. Grant „Cercetarea și realizarea unor soluții inovative de monitorizare a consumurilor în instalațiile tehnice utilizând inteligența 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 “Telecomunicațiile mai aproape de student” POSDRU/109/2.1./G/81641, Universitatea Tehnica “Gheorghe Asachi” & Compania Mobilis Romania, 2012-2013 (2 ani)
3. Grant PN II , AUTOMATIC ECG SIGNAL ANALYSIS FOR TELEMEDICINE APPLICATIONS, Universitatea Tehnica “Gheorghe Asachi” & Universitatea Incheon, South-Korea, Responsabil Proiect Universitatea Tehnica “Gheorghe Asachi”, 2009 (1 an)
4. Grant AEROSPATIAL - 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 CEEX-VIASAN, AUTOMATIC DIAGNOSTIC FOR DYSFUNCTIONAL DENTAL SYNDROME SYSTEMS, Universitatea Tehnica “Gheorghe Asachi” & Universitatea de Medicina si Farmacie “Gr.T.Popa”, 2005-2008, Responsabil Proiect Universitatea Tehnica “Gheorghe Asachi”, (3 ani)

Citari in carti, ISI

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1. 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", *Applied Sciences* 23 (3), 1128, <https://www.mdpi.com/1424-8220/23/3/1128>
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4. M Mukhtar, F Yunus, AAlqahtani, 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>
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6. 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>
7. 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>
8. 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>, <https://www.mdpi.com/journal/metals>
9. 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/cm/v67n2/41317>, <https://www.techscience.com/journal/cm>
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/journal/processes>
12. I Zagan, VG Găitan, AI Petrariu, N Iuga, A Brezulianu, "Design, fabrication, and testing of an IoT healthcare cardiac monitoring device", *Computers* 9 (1), 15, <https://www.mdpi.com/2073-431X/9/1/15>
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://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs179698>
14. A Brezulianu, O Geman, MD Zbancioc, M Hagan, C Aghion, DJ Hemanth, ..., "IoT based heart activity monitoring using inductive sensors", *Sensors* 19 (15), 3284, <https://www.mdpi.com/1424-8220/19/15/3284>
15. L Ungurean, A Brezulianu, "An internet of things framework for remote monitoring of the healthcare parameters", *Advances in Electrical and Computer Engineering* 17 (2), 11-16, https://www.researchgate.net/profile/loan-ungurean/publication/317331372_An_Internet_of_Things_Framework_for_Remote_Monitoring_of_the_HealthCare_Parameters/links/595dbfc7aca27230850d1031/An-Internet-of-Things-Framework-for-Remote-Monitoring-of-the-HealthCare-Parameters.pdf
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>

17. D Howard, A Brezulianu, "Capturing expert knowledge of mesh refinement in numerical methods of impact analysis by means of genetic programming", *Soft Computing* 15, 103-110, <https://link.springer.com/article/10.1007/s00500-010-0684-x>
18. D Howard, A Brezulianu, J Kolibal, "Genetic programming of the stochastic interpolation framework: convection-diffusion equation", *Soft Computing* 15, 71-78, <https://link.springer.com/article/10.1007/s00500-009-0520-3>
19. D Howard, J Kolibal, A Brezulianu, "Engineering presentation of the stochastic interpolation framework and its applications", *Soft Computing* 15, 79-87, <https://link.springer.com/article/10.1007/s00500-009-0517-y>

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1. GreenChain: A Solana Blockchain-based Management Platform for Academic/Commercial Areas
A Brezulianu, I Popa, O Geman, I Chiuchisan, C Nastase
2022 E-Health and Bioengineering Conference (EHB), 1-5
2. Implementing an integrated information system designed for Romanian public entities
M Udroi, M Dumitrache, I Sandu, A Brezulianu
Studies in Informatics and Control 27 (3), 369-376
3. M-GreenCARDIO embedded system designed for out-of-hospital cardiac patients
I Zagan, VG Gaitan, N Iuga, A Brezulianu
2018 international conference on development and application systems (DAS ...
4. Integrated Information System of Monitoring and Management for Heart Centers
A Brezulianu, M Fira
INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN ARTIFICIAL INTELLIGENCE 1 (5)
5. A genetic algorithm approach for scheduling of resources in well-services companies
A Brezulianu, L Fira, M Fira
International Journal of Advanced Research in Artificial Intelligence 1 (5), 1-6
6. Electrocardiographic signal processing applications in telemedicine
A Brezulianu, I Ciocoiu, M Fira
Handbook of research on developments in e-health and telemedicine ...
7. A genetic algorithm approach for a constrained employee scheduling problem as applied to employees at mall type shops
A Brezulianu, M Fira, L Fira
Proceedings of the 2009 International Conference on Hybrid Information ...
8. Analysis of chaotic movements and fuzzy assessment of hands tremor in rehabilitation
HN Teodorescu, D Mlynek, A Kandel, I Ropota, C Teodorescu, C Posa, ...
1998 and International Conference. Knowledge-Based Intelligent Electronic ...

Membru in colective de cercetare internationale

1. "Deputy Leader" in Comisia NATO, NATO Industrial Advisory Group (NIAG) SG 282 "Smart Amunition" (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-prezent)

- Competențe de comunicare dobândite prin experiența de cadru didactic universitar la ETTI Iași cât și în aceea de CEO la GREENSOFT timp de peste 25 ani

COMPETENTE PROFESIONALE

Autoevaluare	Înțelegere				Vorbire				Scriere	
	Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
Limba Engleza	C1	Utilizator experimentat	C1	Utilizator independent	C1	Utilizator elementar	C1	Utilizator independent	C1	Utilizator independent
Limba Franceza	A2	Utilizator elementar	A2	Utilizator elementar	A1	Utilizator elementar	A1	Utilizator elementar	A1	Utilizator elementar
Competențe și aptitudini tehnice	Solutii de optimizare industrială folosind tehnici de inteligența artificială									

24.09.2025

Brezulianu Adrian Iulian