




INFORMAȚII PERSONALE

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Data nașterii 17.12.1967 | Naționalitatea Română

POZIȚIA PENTRU CARE SE
CANDIDEAZĂ

Coordonator doctorat

EXPERIENȚA PROFESIONALĂ

-
- 1992-prezent Cadru didactic universitar
conferențiar doctor inginer
Activități didactice și de cercetare
Universitatea Tehnică „Gheorghe Asachi” Iași, România
Facultatea de Electronica, Telecomunicatii si Tehnologia Informatiei
- 2002-prezent CEO al GREENSOFT SRL Iași
www.greensoft.com.ro
Tipul sau sectorul de activitate IT&C

EDUCAȚIE ȘI FORMARE

-
- 1993-1999 Studii de doctorat
PhD, 1999
Titlul tezei de doctorat: "Contributia in analiza dinamica a sistemelor fuzzy cu aplicatii in ingineria biomedicala"
Universitatea Tehnică „Gheorghe Asachi”, Iași, România
- 1987-1992 Studii universitare
Inginer
Universitatea Tehnică „Gheorghe Asachi” Iași, România
Facultatea de Electronică, Telecomunicații si Tehnologia Informatiei

Carti / monografii

1. A. Brezulianu – Sisteme fuzzy și aplicații, Editura Tehnici și Tehnologii, 2002, Iași, ISBN 0-973-97737-1-0, pp. 1-247.
2. A. Brezulianu, M. Fira – Procesarea semnalelor biomedicale și aplicații, Editura Politehnică, Iași, 2010, ISBN: 978-973-621-308-3, pp. 1-244
3. A. Brezulianu, E. Mihailescu, A. Toderiță - Rețele de calculatoare și aplicații, Editura Politehnică, 2010, Iași, 410 pag.
4. A. Brezulianu, E. Mihailescu, D. Pintilie – Rețele de calculatoare și aplicații (îndrumar laborator), Editura Politehnică, 2013, Iași, 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: A.P. Tacu, Jaime G. Aluja, H.N. Teodorescu, Romanian Academy Publishing House, București, 1994, ISBN 973-27-0469-1, pp. 206-217, pag. 12.
6. 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. Praveenchandam 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/cmcc/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/cmcc/v67n2/41317> (impact factor: 3.86) <https://www.techscience.com/journal/cmcc>
12. I. Zagan, V.G. Găitan, A.I. Petriariu, 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/jifs179698?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. Gazzì, L. Sorodoc: „A Computerized Data Analysis Method for Electrogastrophyc Signals”, Revista Medico-Chirurgicala a societatii de medici si naturalisti din Iasi, volumul 113 (2009), numarul 1 , pp. 120, ISSN: 0048-7848 (Eurasip)

Proprietate intelectuală / brevete de
inventie / internaționale

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 Tehnică “Gheorghe Asachi” & Compania REMONI Danemarca, Responsabil Proiect Universitatea Tehnică “Gheorghe Asachi”, 2021 – 2023 (3 ani)
2. Grant proiect POS-DRU “Telecomunicațiile mai aproape de student” POSDRU/109/2.1./G/81641, Universitatea Tehnică “Gheorghe Asachi” & Compania Mobilis Romania, 2012-2013 (2 ani)
3. Grant PN II , AUTOMATIC ECG SIGNAL ANALYSIS FOR TELEMEDICINE APPLICATIONS, Universitatea Tehnică “Gheorghe Asachi” & Universitatea Incheon, South-Korea, Responsabil Proiect Universitatea Tehnică “Gheorghe Asachi”, 2009 (1 an)
4. Grant AEROSPATIAL - ROSA, ADVANCED ACCELEROMETER MEASUREMENT SYSTEM FOR INVESTIGATING ATMOSPHERIC SPACECRAFT, Universitatea Tehnică “Gheorghe Asachi” & ROSA, 2004-2006, Responsabil Proiect Universitatea Tehnică “Gheorghe Asachi”, (3 ani)
5. Grant CEEX-VIASAN, AUTOMATIC DIAGNOSTIC FOR DYSFUNCTIONAL DENTAL SYNDROME SYSTEMS, Universitatea Tehnică “Gheorghe Asachi” & Universitatea de Medicina si Farmacie “Gr.T.Popa”, 2005-2008, Responsabil Proiect Universitatea Tehnică “Gheorghe Asachi”, (3 ani)

Citari in carti, ISI

https://scholar.google.com/citations?hl=en&user=cttP0HQAAAAJ&view_op=list_works&sortby=pubdate

1. Munisamy Shyamala Devi, Venkatesan Dhillip 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>
2. Khalid Hamid, Muhammad Waseem Iqbal, Qaiser Abbas, Muhammad Arif, Adrian Brezulianu, Oana Geman (2023) "Cloud Computing Network Empowered by Modern Topological Invariants", *Applied Sciences* 13 (3), 1399, <https://www.mdpi.com/2076-3417/13/3/1399>
3. 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>, <https://www.mdpi.com/journal/applsci/stats>
4. 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>
5. 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>
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/cmcc/v67n2/41317>, <https://www.techscience.com/journal/cmcc>
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, Al Petriariu, 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, Al Petriariu, 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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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 Udroui, 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, ...
1998ond International Conference. Knowledge-Based Intelligent Electronic ...
-
1. "Deputy Leader" in Comisia NATO, NATO Industrial Advisory Group (NIAG) SG 282 "Smart Amunition" (2022-present)

Membru in colective de cercetare internationale

- Competențe de comunicare dobândite prin experiența de cadru didactic universitar la ETTI Iași cât și în aceea de CEO la GREENSOFT timp de peste 20 ani

COMPETENTE DE COMUNICARE

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									

22.01.2024

Brezulianu Adrian Iulian