

### **Lista lucrărilor științifice în domeniul disciplinelor din postul didactic**

#### **A. Lucrări relevante dintre cele 39 publicate**

- 1.** **A. Pop**, A. Fanca, D. Gota, H. Valean. Monitoring and Prediction of Indoor Air Quality for Enhanced Occupational Health. *Intelligent Automation & Soft Computing*, Vol.35, No.1, pp. 925-940, 2023, DOI:10.32604/iasc.2023.025069, ISSN: 2326-005X, published june. 2022
- 2.** **A. Pop**, A. Fanca, D.Gota, H. Valean, L. Miclea. DISTRIBUTED SYSTEM FOR MONITORING ENVIRONMENTAL CONDITIONS using IoT. Proc. of 2022 International Conference on Electrical, Computer and Energy Technologies (ICECET), 20-22 July 2022, Prague, Czech Republic, ISBN:978-1-6654-7087-2, DOI: 10.1109/ICECET55527.2022.9873459
- 3.** Ciobotariu, D. Gota, **A. Pop**, O. Stan, A. Fanca, C. Domuta, H. Valean, L. Miclea. Demographic Attributes Classification via Convolutional Neural Networks: A Proposed Solution. Proc. of 2022 International Conference on Electrical, Computer and Energy Technologies (ICECET), 20-22 July 2022, Prague, Czech Republic, ISBN:978-1-6654-7087-2, DOI: 10.1109/ICECET55527.2022.9872818
- 4.** A. Fanca, D. Gota, **A. Pop**, H. Valean. Daily activities monitoring system using mobile terminal. Proc. of 2022 23rd International Carpathian Control Conference (ICCC 2022), 29 May 2022 - 01 June 2022, Sinaia, Romania, ISBN:978-1-6654-6636-3, DOI: 10.1109/ICCC54292.2022.9805886
- 5.** D. Crisan, A. Irimia, D. Gota, L. Miclea, **A. Puscasiu**, O. Stan H. Valean. Analyzing Benford's Law's Powerful Applications in Image Forensics. *Applied Science* 2021 (Q2/2021), Vol 11 Issue 23, 11482; <https://doi.org/10.3390/app112311482>, ISSN: 2076-3417
- 6.** A. Fanca, **A. Puscasiu**, D. Gota, H. Valean. Recommendation Systems with Machine Learning. Proc. of 2020 21th International Carpathian Control Conference (ICCC), High Tatras, Slovakia, 27-29 October, ISBN: 978-1-7281-1952-6, DOI: 10.1109/ICCC49264.2020.9257293
- 7.** A. Fanca, **A.Puscasiu**, M. Cujerean, D. Gota, H. Valean. System for monitoring people with disabilities in the event of an accident using mobile terminals. *International Journal of Advanced Computer Science and Applications (IJACSA)*, Volume 10, Issue 12, 2019, pp. 74-81, ISSN : 2156-5570, Digital Object Identifier (DOI) : 10.14569/IJACSA.2019.0101210
- 8.** **A. Puscasiu**, A. Fanca, D. Gota, S. Folea, H. Valean. A Survey on Distributed Greenhouse Gases Monitoring Systems. *International Journal of Advanced Computer Science and*

Applications (IJACSA), Volume 10, Issue 11, 2019, pp. 300-304, ISSN : 2156-5570, Digital Object Identifier (DOI) : 10.14569/IJACSA.2019.0101141

9. A. Fanca (Pop), **A. Puscasiu**, H. Valean, S. Folea. A Survey on Smartphone-Based Accident Reporting and Guidance Systems. International Journal of Advanced Computer Science and Applications(IJACSA), Vol. 9, No. 9, 2018, pp. 409-414, ISSN : 2156-5570, <http://dx.doi.org/10.14569/IJACSA.2018.090952>
10. **A. Puscasiu**, A. Fanca(Pop), H. Valean, S. Folea. Traffic Control Using Distributed Greenhouse Gases Measurements. Proc. of 2018 IEEE International Conference on Automation, Quality and Testing, Robotics THETA 21st edition, Cluj-Napoca May 24-26, ISBN: 978-1-5386-2203-2, IEEE Catalog Number: CFP18AQT-USB

#### **B. Teza de doctorat**

Pușcașiu (căs.Pop) Adela, Sistem distribuit bazat pe terminale mobile pentru monitorizarea condițiilor de mediu, Universitatea Tehnica din Cluj Napoca

#### **C.Brevete de inventie**

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#### **D.Cărți si capitole în cărți**

- 1.D. I. Gota, A. Fanca, **A. Pop**, O.Stan, H. Valean. Programarea orientata pe obiecte în limbajul C#,Ed. Risoprint, Cluj-Napoca, Romania, ISBN: 978-973-53-2917-4, 2022, 72 pagini
- 2.D. I. Gota, **A. Pop**, A. Fanca, H. Valean. Concepte OOP in C++, U.T. Press, Cluj-Napoca, Romania, ISBN: 978-606-737-590-9, 2022, 127 pagini
- 3.**A. Puscasiu**, A. Fanca, H. Valean, D. Gota, O Stan, N. Roman, O. Clitan, V. Muresan. Indoor Air Quality Monitoring System for Healthcare Facilities. Proc. of International Conference on Advancements of Medicine and Health Care through Technology, 13-15 October, Cluj-Napoca, Romania, pp. 399-408, part of book series IFMBE, volume 88, ISBN: 978-3-030-93564-1, DOI: 10.1007/978-3-030-93564-1\_44, Springer

#### **E. Articole/studii in extenso**

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#### **F. Publicatii in extenso**

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#### **G. Alte lucrari si contributii stiintifice**

1. A. Fanca, **A. Pop**, A. Badistru, D. Gota, H. Valean. Healthy nutrition smartphone app with personalized recommendations. Proc. of 2022 International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), 16-18 November 2022, Maldives, ISBN:978-1-6654-7095-7, DOI: 10.1109/ICECCME55909.2022.9988326

2. D. Gota, C Siman, A. Fanca, **A. Pop**, O. Stan, H. Valean, L. Miclea. Hand Gesture Recognition and Infrared Information System. Proc. of 2022 23rd International Carpathian Control Conference (ICCC 2022), 29 May 2022 - 01 June 2022, Sinaia, Romania, ISBN:978-1-6654-6636-3, DOI: 10.1109/ICCC54292.2022.9805963
3. A. Fanca, **A. Pop Puscasiu**, D. Gota, F. M. Giurgiu, M. M. Santa, H. Valean, C. Domuta, L. Miclea. Romanian coins recognition and sum counting system from image using TensorFlow and Keras. Proc. of 2022 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) THETA 23rd edition, May 19th-21st, Cluj-Napoca, Romania, IEEE Part Number: CFP22AQT-USB, ISBN: 978-1-6654-7932-5, DOI: 10.1109/AQTR55203.2022.9802068
4. C. Domuta, R. Miron Onciul, D. Gota, A. Fanca, **A. Pop Puscasiu**, O. Stan, H. Valean, L. Miclea. Gaze Analysis and Concentration Monitoring for Children With Attention Disorder using Eye-Tracking. Proc. of 2022 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) THETA 23rd edition, May 19th-21st, Cluj-Napoca, Romania, IEEE Part Number: CFP22AQT-USB, ISBN: 978-1-6654-7932-5, DOI: 10.1109/AQTR55203.2022.9802014
5. C. Domuta, A. Fanca, **A. Puscasiu Pop**, D. Gota, O. Stan, H. Valean, L. Miclea. Multi-channel Chatbot and Robotic Process Automation. Proc. of 2022 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) THETA 23rd edition, May 19th-21st, Cluj-Napoca, Romania, IEEE Part Number: CFP22AQT-USB, ISBN: 978-1-6654-7932-5, DOI: 10.1109/AQTR55203.2022.9801960
6. D. Gota, A. Ciobotaru, **A. Puscasiu**, O. Stan, A. Fanca, C. Domuta, H. Valean, L. Miclea. Deep Neural Networks and Computer Vision for Real-Time Facial Landmark Detection. Proc. of International Conference on Electrical, Computer and Energy Technologies (ICECET), 9-10 december 2021, Cape-Town, South-Africa
7. **A. Puscasiu**, A. Fanca, D. Gota, C. Domuta, H. Valean, O. Stan, L. Miclea. Data Transmission and Remote Control of Android Mobile Devices. Proc. of IEEE International conference on electrical, computer, communications and mechatronic engineering ICECCME 2021, Mauritius, 7-8.10.2021, ISBN: 971-1-6654-1262-9.
8. A. Fanca, **A. Puscasiu**, P. Detesan, D. Gota, H. Valean, L. Miclea. Monitoring System For Quarantined Persons . Proceedings of the 25th International Conference on System Theory, Control and Computing, pp. 455-460, Iasi, Romania, October 20-23, 2021, ISBN 978-1-6654-1495-1, IEEE Catalog Number CFP2136P-USB
9. D. Gota, **A. Puscasiu**, A. Fanca, D.B. Neag, M. Hulea, L. Miclea, H. Valean. Monitoring system for Android devices sensor performance. Proceedings of the 25th International Conference on System Theory, Control and Computing, pp. 461-466, Iasi, Romania, October 20-23, 2021, ISBN 978-1-6654-1495-1, IEEE Catalog Number CFP2136P-USB
10. Iulia Clitan, **Adela Puscasiu**, Vlad Muresan, Mihaela Ligia Unguresan, Mihail Abrudean. Web Application for Statistical Tracking and Predicting the Evolution of Active Cases with the Novel Coronavirus (SARS-CoV-2).Int. J. Modeling Optim, Vol.11, Pages. 70-74, 2021.
11. **A. Puscasiu**, A. Fanca, H. Valean, D. Gota, O Stan, N. Roman, O. Clitan, V. Muresan. Indoor Air Quality Monitoring System for Healthcare Facilities. Proc. of International Conference on

Advancements of Medicine and Health Care through Technology, 13-15 October, Cluj-Napoca, Romania, pp. 399-408, part of book series IFMBE, volume 88, ISBN: 978-3-030-93564-1, DOI: 10.1007/978-3-030-93564-1\_44, Springer

12. D. Gota, **A. Puscasiu**, A. Fanca, H. Valean, L. Miclea. Threat objects detection in airport using machine learning. Proc. of 2020 21th International Carpathian Control Conference (ICCC), High Tatras, Slovakia, 27-29 October, ISBN: 978-1-7281-1952-6, DOI: 10.1109/ICCC49264.2020.9257293
13. **A. Puscasiu**, A. Fanca, D. Gota, H. Valean. Data mining for identifying trends in markets. Proc. of 2020 IEEE International Conference on Automation, Quality and Testing, Robotics THETA 22'nd edition, Cluj-Napoca May 21-23, ISBN: 978-1-7281-7165-4, IEEE Catalog Number: CFP20AQT-USB
14. **A. Puscasiu**, A. Fanca, D. Gota, H. Valean. Automated image captioning. Proc. of 2020 IEEE International Conference on Automation, Quality and Testing, Robotics THETA 22'nd edition, Cluj-Napoca May 21-23, ISBN: 978-1-7281-7165-4, IEEE Catalog Number: CFP20AQT-USB
15. D. Gota, **A. Puscasiu**, A. Fanca, L. Miclea, H. Valean. Smart home automation system using Arduino microcontrollers. Proc. of 2020 IEEE International Conference on Automation, Quality and Testing, Robotics THETA 22'nd edition, Cluj-Napoca May 21-23, ISBN: 978-1-7281-7165-4, IEEE Catalog Number: CFP20AQT-USB
16. D. Gota, **A. Puscasiu**, A. Fanca, H. Valean. Human-Computer Interaction using hand gestures. Proc. of 2020 IEEE International Conference on Automation, Quality and Testing, Robotics THETA 22'nd edition, Cluj-Napoca May 21-23, ISBN: 978-1-7281-7165-4, IEEE Catalog Number: CFP20AQT-USB
17. A. Fanca, **A. Puscasiu**, D. Gota, H. Valean. Methods to Minimize False Detection in Accidental Fall Warning Systems. Proc. of 23rd International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, October 9-11, 2019, IEEE Catalog Number: CFP1936P-USB, ISBN: 978-1-7281-0698-4
18. D. Gota, A. Fanca, **A. Puscasiu**, H. Valean, L.Miclea. Driving Evaluation Based on Acceleration, Speed and Road Signs. Proc. of 23rd International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, October 9-11, 2019, IEEE Catalog Number: CFP1936P-USB, ISBN: 978-1-7281-0698-4
19. **A. Puscasiu**, A. Fanca, D. Gota, H. Valean. Dynamic Routing of Traffic Based on Greenhouse Gases Measurements. Proc. of 23rd International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, October 9-11, 2019, IEEE Catalog Number: CFP1936P-USB, ISBN: 978-1-7281-0698-4
20. **A. Puscasiu**, A. Fanca, D. Gota, H. Valean. Cooperative traffic control based on greenhouse gases footprint minimization . Proc. of 20th International Carpathian Control Conference (ICCC), Kraków - Wieliczka, Poland, May 26-29, 2019, IEEE Catalog Number: CFP1942L-USB, ISBN: 978-1-7281-0701-1
21. A. Fanca, **A. Puscasiu**, D. Gota, H. Valean . Evaluating data accuracy of built-in smartphone sensors for mobile applications. Proc. of 26th Telecommunications Forum (TELFOR),

Belgrade, Serbia, November, 20-21, 2018, ISBN: 978-1-5386-7170-2, IEEE Part Number:CFP1898P-CDR

22. V. Muresan, M. Abrudean, H. Valean , L. Miclea, M.L. Unguresan, I. Clitan, **A. Puscasiu**, A. Fanca (Pop). Control of a Separation Column for 18O Isotope Production. Proc. of 22nd International Conference on System Theory, Control and Computing - ICSTCC 2018 - 10-12 October, 2018.
23. A. Fanca (Pop), **A. Puscasiu**, S. Folea, H. Valean. Trauma Accident Detecting and Reporting System. Proc. of 2018 IEEE International Conference on Automation, Quality and Testing, Robotics THETA 21st edition, Cluj-Napoca May 24-26, ISBN: 978-1-5386-2203-2, IEEE Catalog Number: CFP18AQT-USB
24. V. Muresan, M.Abrudean, H. Valean, I. Clitan, M.L. Unguresan, T.Colosi, D. Sas, **A. Puscasiu**, A. Fanca.Pipes Temperature Control in an Annealing Furnace. Proceedings of the 2017 18th International Carpathian Control Conference (ICCC), May 28 - 31, IEEE Catalog Number: CFP1742L-USB, ISBN: 978-1-5090-5825-9
25. **A.Puscasiu**, S. Folea, H. Valean, A. FAnca, T.Sanislav. Monitoring The On-Site Contribution To The Greenhouse Effect By Distributed Measurement Of Carbon Dioxide. Proceedings of the 2017 18th International Carpathian Control Conference (ICCC), May 28 - 31, IEEE Catalog Number: CFP1742L-USB, ISBN: 978-1-5090-5825-9
26. A. Fanca, **A. Puscasiu**, H. Valean. Accident Reporting and Guidance System with automatic detection of the accident. Proc. of 2016 20th International Conference on System Theory, Control and Computing (ICSTCC), October 13-15, Sinaia, Romania, pp. 150-155, ISBN: 978-1-5090-2720-0, IEEE Catalog Number CFP1636P-ART
27. V. Muresan, M. Abrudean, H. Valean, I. Clitan, M. Unguresan, T. Colosi, **A. Puscasiu**, A. Fanca . Temperature Modeling and Control in a Tunnel Heat-Treatment Furnace. Proc. of 2016 20th International Conference on System Theory, Control and Computing (ICSTCC), October 13-15, Sinaia, Romania, pp. 245-250, ISBN: 978-1-5090-2720-0, IEEE Catalog Number CFP1636P-ART
28. **A. Puscasiu**, A. Fanca, H. Valean. Tracking and Localization System using Android Mobile Phones . Proc of 2016 IEEE International Conference on Automation, Quality and Testing, Robotics THETA 20th edition, 19th-21th May, Cluj-Napoca, Romania, ISBN: 978-1-4673-8691-13

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**Semnătura:**

