

LISTA DE LUCRĂRI
a cadrului didactic MAZARE ALIN GHEORGHITA

A. Teza de doctorat

Modelarea, simularea și implementarea de structuri hardware reconfigurabile bazate pe concepte din inteligența artificială, Inginerie electronică, telecomunicații și tehnologii informaționale, 2008

B. Cărți și capitole în cărți publicate în perioada 2012 - 2022

B1. Cărți și capitole în cărți de specialitate internaționale ca autor (cu ISBN extern)

1. Laurentiu Ionescu, Alin Mazare, Gheorghe Serban, *Intrinsic Evolvable Hardware Used for Fault Tolerance Systems*, International Journal of Organizational and Collective Intelligence , IGI Global, Vol. 3, Issue 2, Article 2, (pp.43-80), 3(2), 43-80, April-June 2012, DOI: 10.4018/joci.2012040102, DOI: 10.4018/IJOI, ISSN: 1947-9344, EISSN: 1947-9352, 2012, 2012, (TC_2_2012_DECIE, TC_2_2012_DECIE)

B2. Cărți și capitole în cărți de specialitate naționale ca autor (cu ISBN intern)

1. Gheorghe Șerban, Marian Răducu, Ionel Bostan, Alin Mazăre, Ioan Liță, Alexandru Ene, Luminița Mirela Constantinescu, Valeriu Ionescu, Adrian Zafiu, Daniel Alexandru Vișan, Constantin Stoica, Mariana Iorgulescu., *Întrebări de verificare a cunostintelor pentru finalizarea studiilor*, “Întrebări de verificare a cunostintelor pentru finalizarea studiilor”, 194 pg. , e-ISBN: 978-606-560-383-7, Ed. Universitatii din Pitesti, Pitesti, 2014, 2014, (TC_2_2014_DECIE, TC_2_2014_DECIE)
2. Laurențiu-Mihai Ionescu, Alin Mazăre, *Aplicații cu circuite reconfigurabile*, ISBN: 978-606-560-445-2, Ed. Universității din Pitești, 2015, 2015, (TC_2_2015_DECIE, TC_2_2015_DECIE)
3. Alin-Gheorghita Mazare, Laurentiu-Mihai Ionescu, *Tehnici CAD – îndrumar de laborator*, ISBN: 978-606-560-444-5, Ed. Universității din Pitești, 2015, 2015, (TC_2_2015_DECIE, TC_2_2015_DECIE)

B5. Manuale didactice, suport de curs

1. Alin Mazare, *Circuite integrate digitale - Note de curs*, Universitatea din Pitesti, 2016
2. Alin Mazare, *Construcția și tehnologia aparaturii electronice - Note de curs*, Universitatea din Pitesti, 2016

C. Lucrări (articole) ISI / BDI publicate în perioada 2012 - 2022

C1. Articole în reviste cotate ISI Thomson Reuters

1. Gheorghe Serban, Laurentiu Ionescu, Alin Mazare, *The possibility of optimisation for power supply consumption using evolvable power regulator*, Revue Roumaine des Sciences Techniques, Serie Electrotechnique et Energetique, Tome 57, 2012, No 2, Avril-Juin, pp.222-231, ISSN: 0035-4066 FI 0.47, 2012, (TC_2_2012_DECIE, TC_2_2012_DECIE)
2. Nicu Bizon, Alin Gheorghita Mazare, Laurentiu Mihai Ionescu, Florentina Magda Enescu, *Optimization of the Proton Exchange Membrane Fuel Cell Hybrid Power System for Residential Buildings*, ENERGY CONVERSION AND MANAGEMENT, Volume: 163, Pages: 22-37, DOI: 10.1016/j.enconman.2018.02.025, Published:MAY 1 2018, Document Type:Article, FI 2017 :6.377, 2018, (TC_25_2018_DECIE)
3. Nicu Bizon, Jose Manuel Lopez-Guede, Erol Kurt, Phatiphat Thounthong, Alin Gheorghita Mazare, Laurentiu Mihai Ionescu, Gabriel Iana, *Hydrogen economy of the fuel cell hybrid power system optimized by air flow control to mitigate the effect of the uncertainty about available renewable power and load dynamics*, ENERGY CONVERSION AND MANAGEMENT, Volume: 179, Pages: 152-165, DOI: 10.1016/j.enconman.2018.10.058, Published: JAN 1 2019 , 2019, (TC_9_2019_DECIE)
4. Bizon Nicu, Mazare Alin Gheorghita, Ionescu Laurentiu Mihai, Thounthong Phatiphat, Kurt Erol, Oproescu Mihai, Serban Gheorghe, Lita Ioan, *Better Fuel Economy by Optimizing Airflow of the Fuel Cell*

Hybrid Power Systems Using Fuel Flow-Based Load-Following Control, ENERGIES, Volume: 12, Issue: 14, Article Number: 2792, Published: JUL 2 2019, DOI: 10.3390/en12142792, ISSN: 1996-1073, FI. 2018: 2,707, 2019, (TC_1_2019_DECIE)

5. Laurentiu-Mihai Ionescu, Nicu Bizon, Alin-Gheorghita Mazare, Nadia Belu, *Reducing the Cost of Electricity by Optimizing Real-Time Consumer Planning Using a New Genetic Algorithm-Based Strategy*, Mathematics 2020, 8(7), 1144; <https://doi.org/10.3390/math8071144> Teme: Cost-Efficient Data Collection for Smart Grid and Revenue Assurance (CERA-SG) (CTI - fin), 50% Sisteme integrate hardware si software (CTI - nefin), 50% FI 1.747 WOS: 000557284400001, 2020, (TC_16_2020_DECIE, TC_8_2020_DECIE)

6. Enescu, F.M.; Bizon, N.; Onu, A.; Răboacă, M.S.; Thounthong, P.; Mazare, A.G.; Șerban, G., *Implementing Blockchain Technology in Irrigation Systems That Integrate Photovoltaic Energy Generation Systems*, Published: 18 February 2020, <https://doi.org/10.3390/su12041540>, Sustainability, volum 12, Nr. 4, (ISSN: 2071-1050), Q2, Fi: 2.576 (2019), WOS:000522460200258, 2020, (TC_9_2020_DECIE, TC_2_2020_DECIE)

C2. Articole în volume indexate ISI Proceedings

1. G. Șerban, C. Anton, L. Ionescu, I. Tutănescu, A. Mazăre, *H-ARQ System for real time Error Detection and Correction based on Hardware Associative Memories*, International Conference on Applied Electronics AE'2012, 5-7 September, 2012, Pilzen, Czech Republic, lucrare publicata in Conference Proceedings ISSN 1803-7232, 2012, (TC_2_2012_DECIE, TC_2_2012_DECIE)

2. Anton Constantin, Ionescu Laurentiu, Tutanescu Ion, Mazare Alin, Serban Gheorghe, Oprea Adriana, *An Error Detection and Correction System based on Associative Memories*, 2012 20th Telecommunications Forum (TELFOR), ISBN: 978-1-4673-2984-2, p.568-571, Belgrade, Serbia, November, 20-22, 2012, 2012, (TC_2_2012_DECIE, TC_2_2012_DECIE)

3. Ionescu, L., Anton, C., Tutănescu, I., Mazăre, A., Șerban, G., *Error correction and detection system based on Hopfield networks*, 2012 International Conference for Internet Technology and Secured Transactions, ICITST 2012, Article number 6470868, Pages 541-544, ISBN: 978-190832008-7, 2012, (TC_2_2012_DECIE, TC_2_2012_DECIE)

4. Barbu V., Ionescu L., Mazare A., Serban G., *Evolvable Hardware Used in Heliostatic Field Tracker System Control*, 2013 International Conference on Applied Electronics, Pilsen 10 – 12 September 2013, 29-33, ISSN 1803-7232 (Print) ISSN 1805-9597 (Online), ISBN 978-80-261-0166-6, 2013, (TC_2_2013_DECIE, TC_2_2013_DECIE)

5. Anton, C., Ionescu, L., Tutanescu, I., Mazare, A., Serban, G., *Error detection and correction using LDPC in parallel Hopfield networks*, 4th International Symposium on Electrical and Electronics Engineering (ISEEE), 2013, 11-13 Oct. 2013, INSPEC Accession Number: 13936656, 10.1109/ISEEE.2013.6674380, 2013, (TC_2_2013_DECIE, TC_2_2013_DECIE)

6. Anton C., Ionescu L. Mazăre A., Tutănescu I., Serban G., *Errors correction with optimised Hopfield neural networks*, Telecommunications Forum (TELFOR), 2013 21st, 25-28 nov. 2013, ISBN 978-1-4799-1419-7, pp. 393 – 396, 2013, 2013, (TC_2_2013_DECIE, TC_2_2013_DECIE)

7. A Mazare, L Ionescu, G Serban, I Lita, *FPGA-based system for data acquisition and remote communication*, Design and Technology in Electronic Packaging (SIITME), 2014 IEEE 20th International Symposium for, 169-174, DOI: 10.1109/SIITME.2014.6967019, 2014, 2014, (TC_2_2014_DECIE, TC_2_2014_DECIE)

8. LM Ionescu, A Mazare, C Anton, C Stoian, *The hardware implementation of a quantum computation system emulator*, Applied Electronics (AE), 2014 International Conference on, ISSN 1803-7232, ISBN 978-8-0261-0276-2, 121 – 124, 2014, 2014, (TC_2_2014_DECIE, TC_2_2014_DECIE)

9. Mazare, A., Ionescu, L.-M., Lita, A.-I., Serban, G., Ionut, M., *Mobile system with real time route learning using Hardware Artificial Neural Network*, 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), pp. 45-48, DOI:10.1109/ECAI.2015.7301250, ISBN 978-1-4673-6646-5, Bucharest, Romania, June, 2015, 2015, (TC_2_2015_DECIE, TC_2_2015_DECIE)

10. L.M. Ionescu, A. Mazare, A.I. Lita, G. Serban, *Fully Integrated Artificial Intelligence Solution for Real Time Route Tracking*, 38th International Spring Seminar on Electronics Technology "Novel Trends in Electronics Manufacturing" ISSE, Edger, Hungary, 2015, 2015, (TC_2_2015_DECIE, TC_2_2015_DECIE)

11. N. Belu, L.M. Ionescu, A. Misztal, A. Mazare, *Poka Yoke system based on image analysis and object recognition*, Modern Technologies in Industrial Engineering ModTech, Mamaia Romania, MODERN

TECHNOLOGIES IN INDUSTRIAL ENGINEERING (MODTECH2015) Book Series: IOP Conference Series-Materials Science and Engineering Volume: 95 Article Number: 012138, 2015, 2015, (TC_2_2015_DECIE, TC_2_2015_DECIE)

12. Berechet, V.A. ; Ionescu, L.M. ; Mazare, A.G. ; Lita, I., *Real time PCB diagnosis using FPGA - implemented video analysis tool*, 2015 IEEE 21st International Symposium for Design and Technology in Electronic Packaging (SIITME), pp. 201-205, DOI:10.1109/SIITME.2015.7342323, Brasov, Romania 2015, 2015, (TC_2_2015_DECIE, TC_2_2015_DECIE)

13. Ionescu, L.M., Mazare, A.G., Berechet, V.A., Lita, I., *Real - time system for shape extraction from an image*, 2015 IEEE 21st International Symposium for Design and Technology in Electronic Packaging (SIITME), pp. 205 – 208, , 2015, (TC_2_2015_DECIE, TC_2_2015_DECIE)

14. A. Mazare, L.M. Ionescu, A.I. Lita, G. Serban, *Real Time System for Image Acquisition and Pattern Recognition Using Boolean Neural Network*, 38th International Spring Seminar on Electronics Technology "Novel Trends in Electronics Manufacturing", Edger, Hungary, 2015, 2015, (TC_2_2015_DECIE, TC_2_2015_DECIE)

15. Adrian Ioan Lita, Laurentiu Mihai Ionescu, Alin Gheorghita Mazare, Gheorghe Serban, Ioan Lita, *Real time system for instrumental sound extraction and recognition*, Electronics Technology (ISSE), 2016 39th International Spring Seminar on, pp. 456-461, Electronic ISSN: 2161-2064, 2016, 2016, (TC_2_2016_DECIE, TC_2_2016_DECIE)

16. LM Ionescu, N Belu, N Rachieru, AG Mazăre, DC Anghel, *Monitoring of manufacturing processes in the automotive industry using indoor location system*, IOP Conference Series: Materials Science and Engineering, Vol. 145, Issue 2, Pp. 022020, doi:10.1088/1757-899X/145/2/022020, 2016, 2016, (TC_2_2016_DECIE, TC_2_2016_DECIE)

17. L. M. Ionescu, A. Gh. Mazare, I. Lita, N. Belu, A-I. Lita, *Real time system for extraction and playback of an instrumental sound*, 2016 IEEE 22nd International Symposium for Design and Technology in Electronic Packaging (SIITME), Oradea, Romania, 2016, pp. 86-89. doi: 10.1109/SIITME.2016.7777250. (BDI: IEEE Xplore), 2016, (TC_2_2016_DECIE, TC_2_2016_DECIE)

18. Visan, Daniel Alexandru; Ionescu, Laurentiu Mihai; Lita, Adrian Ioan, Alin Mazare, *Remote Communication Interface for Sound and Vibration Sensors*, 2016 IEEE 22nd International Symposium for Design and Technology in Electronic Packaging (SIITME), Oradea, Romania, 2016, pp. 90-93. doi: 10.1109/SIITME.2016.7777250. (BDI: IEEE Xplore), 2016, (TC_2_2016_DECIE, TC_2_2016_DECIE)

19. Laurentiu Mihai Ionescu; Alin Gheorghita Mazare; Adrian Ioan Lita; Daniel Alexandru Visan; Gheorghe Serban; Nadia Belu; A. Sanmarghitan; T. Goeller; S. Balauta, *Current consumption monitoring and analysis system for energy management improvement in an industrial complex*, 2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME) Pages: 286 - 291 Date Added to IEEE Xplore: 18 January 2018 DOI: 10.1109/SIITME.2017.8259909, 2017, (TC_7_2017_DECIE)

20. Adrian Ioan Lita; Daniel Alexandru Visan; Alin Gheorghita Mazare; Laurentiu Mihai Ionescu, *Door automation system for smart home implementation*, 2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME) Pages: 345 - 348 Date Added to IEEE Xplore: 18 January 2018 DOI: 10.1109/SIITME.2017.8259925, 2017, (TC_7_2017_DECIE)

21. Alin Gheorghita Mazăre; Laurentiu Mihai Ionescu; Daniel Alexandru Visan; Nadia Belu; Ioan Liță; T. Eilks; V. Stan; C. Colceriu, *Intelligent system for determining the consumer profile and generate alarm in case of significant deviations from the profile*, 2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME) Pages: 361 - 366 Date Added to IEEE Xplore: 18 January 2018 DOI: 10.1109/SIITME.2017.8259926, 2017, (TC_7_2017_DECIE)

22. Daniel Alexandru Visan; Laurentiu Mihai Ionescu; Alin Gheorghita Mazare; Adrian Ioan Lita, *Line encoder with serial data transmission for automotive applications*, 2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME) Pages: 349 - 352 Date Added to IEEE Xplore: 18 January 2018 DOI: 10.1109/SIITME.2017.8259922, 2017, (TC_7_2017_DECIE)

23. Mazare, A. G; Belu, N.; Ionescu, L. M.; Rachieru, N.; Misztal, A., *Non-invasive system for monitoring of the manufacturing equipment*, MODTECH INTERNATIONAL CONFERENCE - MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING VBook Series: IOP Conference Series-Materials Science and Engineering, Volume: 227, DOI: 10.1088/1757-899X/227/1/012078, Published: 2017, ISSN: 1757-8981, 2017, (TC_7_2017_DECIE, TC_7_2017_DECIE)

24. Ionescu, L. M. ; Mazare, A. ; Serban, G. ; Ionita, S, *Real time monitoring system used in route planning for the electric vehicle*, INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING - MOBILITY ENGINEERING AND ENVIRONMENT (CAR2017)Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 252, Article Number: UNSP 012095, DOI: 10.1088/1757-899X/252/1/012095, Published: 2017ISSN: 1757-8981, 2017, 2017, (TC_7_2017_DECIE, TC_7_2017_DECIE)
25. Lita, Ioan; Visan, Daniel Alexandru; Mazare, Alin Gheorghita, *Experimental module for assistive technologies applications*, 22nd IEEE International Symposium for Design and Technology in Electronic Packaging (SIITME)Location: Oradea, ROMANIA Date: OCT 20-23, 2016,ISBN:978-1-5090-4446-7, 2017, (TC_2_2017_DECIE, TC_2_2017_DECIE)
26. Laurentiu Mihai Ionescu ; Alin Mazare ; Mihai Oproescu ; Ioan Lita ; Gheorghe Serban ; Belu Nadia, *Electricity consumption measurement system for detecting losses occurring in power transmission networks*, Electronics, Computers and Artificial Intelligence (ECAI), 2017 9th International Conference on, Date of Conference: 29 June-1 July 2017, Date Added to IEEE Xplore: 07 December 2017, Electronic ISBN: 978-1-5090-6458-8Print ISBN: 978-1-5090-6457-1USB ISBN: 978-1-5090-6456-4Print on Demand(PoD) ISBN: 978-1-5090-6459-5DOI: 10.1109/ECAI.2017.8166469, 2017, (TC_7_2017_DECIE)
27. Adrian Ioan Lita, Daniel Alexandru Visan, Alin Gheorghita Mazare, Ioan Lita, *Microcontroller based thermal enclosure for electronic boards testing*, Electronics Technology (ISSE), 2017 40th International Spring Seminar on, Date of Conference: 10-14 May 2017Date Added to IEEE Xplore: 08 August 2017Electronic ISBN: 978-1-5386-0582-0Print on Demand(PoD) ISBN: 978-1-5386-0583-7, DOI: 10.1109/ISSE.2017.8000940, 2018, (TC_4_2018_DECIE)
28. Alin Gh Mazare, Laurentiu M Ionescu, Daniel Visan, Adrian I Lita, Gheorghe Serban, *Embedded system for real time analysis of thermal images for prevention of water stress on plants*, 2018 41st International Spring Seminar on Electronics Technology (ISSE) , Conference Location: Zlatibor, Serbia, Serbia , Publisher: IEEE , DOI: 10.1109/ISSE.2018.8443604 , Electronic ISBN: 978-1-5386-5731-7 , Date of Conference: 16-20 May 2018, 2018, (TC_25_2018_DECIE)
29. Laurentiu-Mihai Ionescu, Alin Mazare, Daniel Visan, Nadia Belu, Adrian Lita, *Field Programmable Gates Array implementation of quantum computation structures*, 2018 41st International Spring Seminar on Electronics Technology (ISSE) , Publisher: IEEE ,Conference Location: Zlatibor, Serbia, Serbia , DOI: 10.1109/ISSE.2018.8443620 , Electronic ISBN: 978-1-5386-5731-7, 2018, (TC_5_2018_DECIE)
30. Daniel Alexandru Visan, Adrian Ioan Lita, Alin Gheorghita Mazare, Laurentiu Mihai Ionescu, Ioan Lita, *Digital Modem for Distributed Data Acquisition and Control Systems Used in Intensive Fruit Farming*, 2018 41st International Spring Seminar on Electronics Technology (ISSE), Conference Location: Zlatibor, Serbia, Serbia , DOI: 10.1109/ISSE.2018.8443613 , Electronic ISBN: 978-1-5386-5731-7 , Date of Conference: 16-20 May 2018, 2018, (TC_25_2018_DECIE)
31. Adrian Ioan Lita , Daniel Alexandru Visan , Mirela Gherghe , Laurentiu Mihai Ionescu , Alin Gheorghita Mazare , Ioan Lita, *Microcontroller Based Magnetometer for Smart Meters Used in Electrical Energy Measurement*, 2018 41st International Spring Seminar on Electronics Technology (ISSE) , DOI: 10.1109/ISSE.2018.8443693 , Conference Location: Zlatibor, Serbia, Serbia , Electronic ISBN: 978-1-5386-5731-7 , DOI: 10.1109/ISSE.2018.8443693 , Date of Conference: 16-20 May 2018, 2018, (TC_5_2018_DECIE)
32. Adrian Ioan LITA, Daniel Alexandru VISAN, Laurentiu Mihai IONESCU, Alin Gheorghita MAZARE, *Temperature Control System for Accelerated Aging Tests on Printed Circuit Boards*, PROCEEDINGS OF THE 2018 10TH INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI)Book Group Author(s):IEEEBook Series: International Conference on Electronics Computers and Artificial IntelligencePublished: 2018ISBN:978-1-5386-4901-5ISSN: 2378-7147, 2018, (TC_5_2018_DECIE)
33. N. Belu, LM Ionescu, AG Mazăre, N Rachieru, *Kanban system based on manufacturing equipment operation monitoring*, IOP Conference Series: Materials Science and Engineering, Volume 400, 6 - Management of Industrial Processes, ModTech 2018, 2018, (TC_25_2018_DECIE)
34. Alin Gheorghită Mazăre, Laurențiu Mihai Lonescu, Ioan Liță, Daniel Vișan, Nadia Belu, Mirela Gherghe, *Intelligent monitoring and planning system for herbicidal processes in agricultural*, 2018 IEEE 24th International Symposium for Design and Technology in Electronic Packaging (SIITME), Date of

Conference: 25-28 Oct. 2018, Electronic ISBN: 978-1-5386-5577-1, Print on Demand(PoD) ISBN: 978-1-5386-5578-8, 2018, (TC_5_2018_DECIE, TC_25_2018_DECIE)

35. Laurentiu Mihai Ionescu, Alin Gheorghita Mazare, Gheorghe Serban, Daniel Visan, Adrian Ioan Lita, *Intelligent command of an underground irrigation and fertilization system*, 2018 IEEE 24th International Symposium for Design and Technology in Electronic Packaging (SIITME), Date of Conference: 25-28 Oct. 2018, Electronic ISBN: 978-1-5386-5577-1, Print on Demand(PoD) ISBN: 978-1-5386-5578-8, 2018, (TC_5_2018_DECIE, TC_25_2018_DECIE)

36. Adrian Ioan Lita, Daniel Alexandru Visan, Laurentiu Mihai Ionescu, Alin Gheorghita Mazare, *Automated Testing System for Cable Assemblies Used in Automotive Industry*, 2018 IEEE 24th International Symposium for Design and Technology in Electronic Packaging (SIITME), Date of Conference: 25-28 Oct. 2018, Electronic ISBN: 978-1-5386-5577-1, Print on Demand(PoD) ISBN: 978-1-5386-5578-8, 2018, (TC_5_2018_DECIE)

37. Daniel Alexandru Visan, Ioan Lita, Alin Gheorghita Mazare, Laurentiu Mihai Ionescu, *QPSK Transmission System for Machine to Machine Communication*, 2018 IEEE 24th International Symposium for Design and Technology in Electronic Packaging (SIITME), DOI: 10.1109/SIITME.2018.8599237, ISBN Information: Electronic ISBN: 978-1-5386-5577-1 Print on Demand(PoD) ISBN: 978-1-5386-5578-8, 2018, (TC_5_2018_DECIE)

38. Laurentiu-Mihai Ionescu, Alin Mazare, Daniel Visan, Gheorghe Serban, Belu Nadia, Adrian Lita, *Intelligent Monitoring System To Combat Water Stress In Plant Crops*, Conference: 10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Location: Iasi, ROMANIA Date: JUN 28-30, 2018 Sponsor(s): IEEE Romania Sect; IEEE Ind Applicat Soc; Univ Pitesti; Guvernul Romaniei; Univ Pitesti, Fac Electronica Comunicatii Calculatoare ISBN: 978-1-5386-4901-5 ISSN: 2378-7147, 2018, (TC_5_2018_DECIE)

39. Moise Madalin Vasile, Mazare Alin Gheorghita, Svasta Paul Mugur, *Implementation of 3D gesture control system for environmental control*, 2018 7TH ELECTRONIC SYSTEM-INTEGRATION TECHNOLOGY CONFERENCE (ESTC) Book Group Author(s): IEEE/ Published: 2018/ Location: Dresden, GERMANY/ Date: Sept 18-21, 2018, 2018, (TC_14_2018_DECIE)

40. Ioan LITA, Daniel Alexandru VISAN, Laurentiu Mihai IONESCU, Alin Gheorghita MAZARE, *Color-Based Sorting System for Agriculture Applications*, 11th International Conference on Electronics, Computers and Artificial Intelligence – ECAI 2019, 2019, (TC_16_2019_DECIE)

41. Daniel Alexandru VISAN, Mariana Jurian, Ioan LITA, Laurentiu Mihai IONESCU, Alin Gheorghita MAZARE, *Direct Sequence Spread Spectrum Communication Module for Efficient Wireless Sensor Networks*, 11th International Conference on Electronics, Computers and Artificial Intelligence – ECAI 2019, 2019, (TC_16_2019_DECIE)

42. Laurentiu-Mihai Ionescu, Alin Gheorghita Mazare, Gheorghe Serban, Lita Ioan, Daniel Visan,, *A solution to implement Grover quantum computation algorithm using the binary representation of the phase on the FPGA*, 11th International Conference on Electronics, Computers and Artificial Intelligence – ECAI 2019 WOS: 000569985400148 DOI: 978-1-7281-1624-2/19 Nr autori: 5/5 BDI: IEEE/IET Electronic Library (IEL, 2019, (TC_16_2019_DECIE)

43. Moise, Madalin Vasile; Svasta, Paul Mugur; Mazare, Alin Gheorghita, *Implementation of a prototype embedded system for in-car multipoint temperature measuring*, Conference: 22nd European Microelectronics and Packaging Conference and Exhibition (EMPC) Location: Pisa, ITALY Date: SEP 16-19, 2019, WOS:000532694100014, ISBN:978-0-9568086-6-0, ISSN: 2165-2341, 2019, (TC_2_2019_DECIE)

44. Ionescu LM., Mazare AG., Serban G., Chitu E., Lita AI, *Intelligent monitoring and analysis system of soil moisture parameters and trunk diameter used in fruit tree culture*, 2019 IEEE 25TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2019) Book Series International Symposium for Design and Technology in Electronic Packaging Page 256-259 Published 2019 ISBN 978-1-7281-3330-0 ISSN 2641-287X, 2019, (TC_9_2019_DECIE, TC_26_2019_DECIE)

45. Lita, I, Visan DA, Mazare AG., Ionescu LM, *Solar Tracker for Autonomous Power Supplying of Electronic Systems Used in Precision Agriculture*, 2019 IEEE 25TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2019) Book Series International Symposium for Design and Technology in Electronic Packaging Page 82-85 Published 2019 ISBN 978-1-7281-3330-0 ISSN 2641-287X, 2019, (TC_9_2019_DECIE)

46. Mazare, AG, Ionescu, LM, Visan, D, Belu, N, Lita, AI, *Pests detection system for agricultural crops using intelligent image analysis*, 2019 IEEE 25TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2019) Book Series International Symposium for Design and Technology in Electronic Packaging Page 228-231 Published 2019 ISBN 978-1-7281-3330-0 ISSN 2641-287X, 2019, (TC_9_2019_DECIE, TC_26_2019_DECIE)
47. Visan, DA, Ionescu, LM, Mazare, AG Lita, I, *Transmission Module with Frequency Hopping for Wireless Sensor Mesh Networks Used in Plant Stress Monitoring Systems*, 2019 IEEE 25TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2019) Book Series International Symposium for Design and Technology in Electronic Packaging Page 86-89 Published 2019 ISBN 978-1-7281-3330-0 ISSN 2641-287X, 2019, (TC_9_2019_DECIE)
48. L. Ionescu, A. G. Mazare, D. Visan, A. I. Lita, I. Lita and G. Serban, *Embedded Image Analysis System Based on B-ANN*, 2020 43rd International Spring Seminar on Electronics Technology (ISSE), Demanovska Valley, Slovakia, 2020, pp. 1-6 Teme: Sisteme integrate hardware si software (CTI - nefin), 100%DOI: 10.1109/ISSE49702.2020.9121051 Nr autori: 1/6 BDI: IEEE Xplore, 2020, (TC_9_2020_DECIE)
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50. Daniel Alexandru Visan, Mariana Jurian, Ioan Lita, Laurentiu Mihai Ionescu, Alin Gheorghita Mazare, *Software Controlled Radio Receiver for Versatile Wireless Communications*, 2020 IEEE 26th International Symposium for Design and Technology in Electronic Packaging (SIITME) Teme: Sisteme integrate hardware si software (CTI - nefin), 100%DOI: 10.1109/SIITME50350.2020.9292259, 2020, (TC_2_2020_DECIE, TC_9_2020_DECIE)
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F1. Granturi / proiecte câștigate prin competiție internațională

1. *Cost-Efficient Data Collection for Smart Grid and Revenue Assurance (Optimizarea costurilor la colectarea datelor de la contoarele inteligente si metode de imbunatatire a profitului la transportul energiei electrice)*, Ionescu Laurentiu-Mihai, Mazare Alin Gheorghita, Bizon Nicu, Serban Gheorghe, Lita Ioan, Belu Nadia, Oproescu Mihai, Birleanu Florin-Marian, Iordachescu Grigore-Adrian, CERA-SG, Project Outline Application ID: 77594, Project plan – ERA-Net Smart Grids Plus (director), Total 2016 = 39.627,00 Euro (178.321,50 Lei), 2016, 178321.50, (TC_14_2016_DECIE, TC_14_2016_DECIE)

2. *Concept Development of an Energy Storage Unit Using High Temperature Superconducting Coil for Spacecraft Power Systems (SMESinSpace)*, MAZARE ALIN GHEORGHITA, BIZON NICU, OPROESCU MIHAI, IONESCU LAURENTIU MIHAI, MAZARE ALIN GHEORGHITA, CAZACU DUMITRU, CONSTANTINESCU LUMINITA MIRELA, Cod: CDI STAR, beneficiar: European Space Agency within STAR (Space Technology and Advanced Research), anul: 2017, domeniul stiintific: Technology & Science Support, valoare: 40887.00, 2017, 40887.00, (TC_6_2017_DECIE)

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2. MAZARE ALIN GHEORGHITA, SOARE LILIANA CRISTINA, MAZARE ALIN GHEORGHITA, IONESCU LAURENTIU MIHAI, BIZON NICU, LITA IOAN, SERBAN GHEORGHE, OPROESCU MIHAI, ANGHELESCU PETRE, VISAN DANIEL ALEXANDRU, BELU NADIA, ANGHEL DANIEL CONSTANTIN, TOPALA CARMEN MIHAELA,, *PN-III-P1-1.2-PCCDI-2017-0332 "Creșterea capacității instituționale de cercetare bioeconomică pentru exploatarea inovatoare a resurselor vegetale autohtone, în vederea obținerii de produse horticoale cu valoare adăugată ridicată"* – *BIOHORTINOV* /, Cod: PN-III-P1-1.2-PCCDI-2017, beneficiar: UPIT, anul: 2018, domeniul stiintific: Bioeconomie, valoare: 1533000.00, 2018, (TC_26_2018_DECIE)

3. MAZARE ALIN GHEORGHITA, IONESCU LAURENTIU MIHAI, MAZARE ALIN GHEORGHITA, BIZON NICU, LITA IOAN, ANGHELESCU PETRE, SERBAN GHEORGHE, OPROESCU MIHAI, VISAN DANIEL ALEXANDRU, BELU NADIA, ANGHEL DANIEL CONSTANTIN, *Creșterea capacității instituționale de cercetare bioeconomică pentru exploatarea inovatoare a resurselor vegetale autohtone, în vederea obținerii de produse horticoale cu valoare adăugată*

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