

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

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 1975 - 2019

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

1. Laurentiu Ionescu, Emil Sofron, Gheorghe Serban, Alin Mazare, *Evolved synthesis of digital circuit*, Encyclopedia of Artificial Intelligence, Edited by: Juan Rabunal, Alejandro Pazos Sierra, University of A Coruna, IGI Global, 2007, Spain, ISBN 978-1-59904-849-9, 2007

2. Laurentiu Ionescu, Alin Mazare, Gabriel Iana, Gheorghe Serban, Ionel Bostan, *Intrinsic Evolvable Hardware Structures*, Chapter 11 of book „Soft Computing: Methods for Practical Environment Solutions”, Ed. Marcos Gestal Pose & Daniel Rivero Cebrian, ISBN 978-1-61520-893-7, p. 160-186, IGI Global, 2010, 2010

3. 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/IJOCI, 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. Laurențiu Ionescu, Alin Mazăre, Gheorghe Șerban, Gabriel Iana, Petre Angheliescu, *Aplicații cu sisteme în timp real*, Editura Matrix ROM, București, ISBN 978-973-755-611-0, 2010, 193 p., 2010

2. 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)

3. 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)

4. 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, *Constructia si tehnologia aparaturii electronice - Note de curs*, Universitatea din Pitesti, 2016

C. Lucrări (articole) ISI / BDI publicate în perioada 1990 - 2019

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)

C2. Articole în volume indexate ISI Proceedings

1. Emil Sofron, Gheorghe Șerban, Ionel Bostan, Laurențiu Ionescu, Valeriu Ionescu, Alin Mazare, *Neuron implementation using reconfigurable hardware*, 9th International Conference on Optimisation of Electrical and Electronic Equipments, The Transilvania University, Brasov, pag. 189., ISBN 973-635-285-4, 2004, 2004
2. Anton C., Ionescu L., Tutanescu I., Mazare A., Serban G., *FPGA-Implemented CRC Algorithm*, International Conference "Applied Electronics", Pilsen 9-10 September 2009, p. 25-30, ISSN 1803-7232, ISBN 978-80-7043-781-0, IEEE Catalog Number CFP0969A-PRT, University of West Bohemia, Pilsen, Czech Republic, 2009, p.25-29, 2009
3. M. Chita, G. Serban, L. Ionescu, C. Ghita, A. Mazare, *Optoelectronic system with optical fibres sensor for ionic concentration measurement of ions from tampon solutions*, Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, Volume 20, No. 1, ISSN 1726-9679, ISBN 978-3-901509-70-4, Viena, Austria, 2009, 2009
4. Serban Gheorghe, Anton Constantin, Tutanescu Ion, Laurentiu Ionescu, Alin Mazare, *An Implementation of BCH codes in FPGA*, Conference: International Conference on Applied Electronics Location: Pilsen, CZECH REPUBLIC Date: SEP08-09, 2010 Sponsor(s): Inst Elect & Elect Engineers (IEEE); Univ W Bohemia, Fac Elect Engn, Dept Appl Elect & Telecommun; Ind Elect Soc (IES) 2010 INTERNATIONAL CONFERENCE ON APPLIED ELECTRONICS Book Series: Applied Electronics Pages: 307-310 Published: 2010, 2010
5. L. Ionescu, A. G. Mazare, G. Serban, *VLSI implementation of an associative content addressable memory based on Hopfield network model*, Proceedings of International Semiconductor Conference CAS2010, 33' edition, IEEE Catalog number: CFP10CAS-PRT, ISBN: 978-1-4244-5781-6; ISSN: 1545-827X, Vol. 1, Section IC&D, pp 499-502, October 11-13 2010, 2010
6. Ionescu L., Mazare A., Serban G., Barbu V., Anton C., *FPGA implementation of an associative content addressable memory*, Proceeding of International Conference on Applied Electronics, ISBN 978-80-7043-987-6, ISSN 1803-7232, IEEE Catalog Number CFP1169A-PRT, p. 181-184, Pilsen, 7-8 september 2011, 2011
7. Mazare A., Ionescu L., Serban G., Barbu V., *Evolvable hardware with Boolean functions network implementation*, Proceeding of International Conference on Applied Electronics, ISBN 978-80-7043-987-6, ISSN 1803-7232, IEEE Catalog Number CFP1169A-PRT, p. 255-260, Pilsen, 7-8 september 2011, 2011
8. Serban G., Anton C., Ionescu L., Tutanescu I., Mazare A., *Implementation of a 64-bit hybrid SR-ARQ algorithm on FPGA*, Proceeding of International Conference on Applied Electronics, ISBN 978-80-7043-987-6, ISSN 1803-7232, IEEE Catalog Number CFP1169A-PRT, p. 337-340, Pilsen, 7-8 September 2011, 2011
9. 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)
10. 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)
11. 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 number6470868, Pages 541-544, ISBN: 978-190832008-7, 2012, (TC_2_2012_DECIE, TC_2_2012_DECIE)
12. 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)

13. 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)

14. 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)

15. 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)

16. 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)

17. 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)

18. 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)

19. 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)

20. 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)

21. 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)

22. 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)

23. 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)

24. 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)

25. 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)

26. 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)
27. 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)
28. 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)
29. 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)
30. 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)
31. 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: 2017 ISSN: 1757-8981, 2017, 2017, (TC_7_2017_DECIE, TC_7_2017_DECIE)
32. 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)
33. 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: 978-1-5090-6458-8 Print ISBN: 978-1-5090-6457-1 USB ISBN: 978-1-5090-6456-4 Print on Demand (PoD) ISBN: 978-1-5090-6459-5 DOI: 10.1109/ECAI.2017.8166469, 2017, (TC_7_2017_DECIE)

C3. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale

1. Nicu Bizon, Alin Mazare, Laurentiu Ionescu, Mihai Oproescu, Marian Raducu, *Fuzzy control of the DC-DC converter used as power interface for a fuel cell*, The 13th International ICIT Conference Progress in Cryogenics and Isotopes Separation. Proceedings, ISSN 1582-2575, p. 167-176, 2007, 2007, (TC__DAT, TC__DAT)
2. Laurentiu Ionescu, Alin Mazare, Gheorghe Serban, Ionel Bostan, *Step down evolvable power regulator*, University of Pitesti – Electronics and computers science, Scientific bulletin, No. 8, Vol.2, 2008, ISSN – 1453 – 1119, Pag 93-98, 2008, 2008, (TC__DAT, TC__DAT)
3. Constantin Anton, Laurentiu Ionescu, Ion Tutanescu, Alin Mazare, Gheorghe Serban, *A FPGA Implementation of a CRC Module for Real Time Communications*, Military Communication and Information Systems Conference MCC 2009, Section IV Wireless Communications, ISBN 978-80-7231-677-9, Prague, Czech Republic, September 29-30, 2009, 2009, (TC__DAT, TC__DAT)
4. C. Anton, L. Ionescu, I. Tutanescu, A. Mazare, G. Serban, *Detecting errors in digital communication with CRC codes implemented with FPGA*, The 4th International Conference for Internet Technology and Secured Transactions, ICITST-2009, ISBN 0-9546628-2-2, November 9-12, 2009, London, UK. p.1-6, 2009, (TC__DAT, TC__DAT)

5. L. Ionescu, C. Anton, I. Tutanescu, A. Mazare, G. Serban, *On a FPGA implementation of BCH Codes*, The 5-th International Conference for Internet Technology and Secured Transactions (ICITST-2010), ISBN 978-1-4244-8862-9, INSPEC Accession Number: 11706545, November 8-11, 2010, London, 2010, (TC__DAT, TC__DAT)
6. Ionita, Silviu; Mazare, Alin; Ionescu, Laurentiu; Anghelescu, Petre, *Indoor Broadcasting System for Personalized TV Emissions Addressed to Tele-Assisted Persons*, Telematic Applications, Volume # | Part#, Digital Object Identifier (DOI), 10.3182/20101005-4-RO-2018.00063, Page Numbers:208-212, 2010, 2010, (TC__DAT, TC__DAT)
7. Laurentiu-Mihai Ionescu, Constantin Anton, Ion Tutanescu, Alin Mazare, Gheorghe Serban, *Hardware Implementation of BCH ErrorCorrecting Codes on a FPGA*, International Journal of Intelligent Computing Research (IJICR), Volume 1, Issue 3, ISSN 2042 4655, September 2010, Infonomics Society, p. 148-153, 2010, (TC__DAT, TC__DAT)
8. Constantin Anton, Laurentiu Ionescu, Ion Tutanescu, Alin Mazare, Gheorghe Serban, *FPGA implementation of H SR-ARQ for 64 bits wordcode*, Military communication and information technology: a comprehensive approach enabler, ISBN 978-83-62954-20-9, p.447-456, Warsaw 2011, 2011, (TC__DAT, TC__DAT)
9. Laurentiu Ionescu, Constantin Anton, Ion Tutanescu, Alin Mazare, Gheorghe Serban, *Reed-Muller decoder with associative memories*, 6th International Conference on Internet Technology and Secured Transactions, pp. 274-277, ISBN 978-1-908320-00-1 IEEE, 11-24 december 2011, Abu Dhabi, United Arab Emirates, 2011, 2011, (TC__DAT, TC__DAT)
10. I. Tutănescu, C. Anton, L. Ionescu, G. Şerban, A. Mazăre, *Hybrid Error Detecting and Correcting System using Hardware Associative Memories*, NATO International Conference on Military Communications and Information Systems MCC'2012, 8 - 9 October 2012, Gdansk, Poland, ISBN 978-839201209-2, 2012, (TC_2_2012_DECIE, TC_2_2012_DECIE)
11. Constantin Anton, Laurentiu Mihai Ionescu, Ion Tutanescu, Alin Mazare, Gheorghe Serban, *Implementation and Analysis of an Error Detection and Correction System on FPGA*, International Journal of Intelligent Computing Research (IJICR), Volume 3, Issues 3/4, Sep/Dec 2012, ISSN 2042 4655, 2012, (TC_2_2012_DECIE, TC_2_2012_DECIE)
12. C. Anton, L. Ionescu, I. Tutănescu, A. Mazăre, Gh. Şerban, A. Oprea, *Using Associative Memories in Coding Theory for Communication Channels*, World Congress on Internet Security WorldCIS-2012, 10 - 12 June 2012, University of Guelph, Ontario, Canada, published in Conference Proceedings ISBN 978-1-908320-04-9, 2012, 2012, (TC_2_2012_DECIE, TC_2_2012_DECIE)
13. Alin Mazare, Laurentiu Ionescu, Dumitru Cazacu, *Intelligent control of greenhouse environment*, Advances in Automatic Control, Modelling & Simulation, 2013, pp. 391-394, ISBN: 978-1-61804-189-0, 2013, 2013, (TC_2_2013_DECIE, TC_2_2013_DECIE)
14. C. Anton, I. Tutănescu, L. Ionescu, G. Şerban, A. Mazăre, *Usage of Associative Memories based on Hopfield Networks in an Error Detection and Correction System*, ICIT 2013, Amman - Jordan, 8-10.05.2013, ICIT 2013 The 6th International Conference on Information Technology, 7 pages, May 8, 2013, 2013, (TC_2_2013_DECIE, TC_2_2013_DECIE)
15. Ionescu, Laurentiu; Ionita, Silviu; Mazare, Alin, *Embedded System for 3-Axis Acceleration Measuring and Local Computing of Related Speeds and Positions*, 12th IFAC Conference on Programmable Devices and Embedded Systems (2013), Programmable Devices and Embedded Systems, VSB Technical University of Ostrava, Velké Karlovice, Czech Republic, Volume # 12 | Part# 1, 155-160 ISBN: 978-3-902823-53-3, ISSN: 1474-6670, 2013, 2013, (TC_2_2013_DECIE, TC_2_2013_DECIE)
16. L. M. Ionescu, A. Gh. Mazare, N. Belu, *Led display command system using Zynq 7000 system on chip*, University of Pitesti Scientific Bulletin, Series: Electronics and Computers Science, pg 33-36, 2016, ISSN: 2344-2158, 2344-2166. (BDI: Index Copernicus, Genamics, ICI Journals Master List), 2016, (TC_2_2016_DECIE, TC_2_2016_DECIE)
17. 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, TC_7_2017_DECIE)

18. 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 2017 Date Added to IEEE Xplore: 08 August 2017 Electronic ISBN: 978-1-5386-0582-0 Print on Demand (PoD) ISBN: 978-1-5386-0583-7, DOI: 10.1109/ISSE.2017.8000940, 2017, (TC_2_2017_DECIE, TC_2_2017_DECIE)
19. 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)
20. 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)
21. 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)
22. 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)
23. Madalin Vasile Moise; Alin Gheorghita Mazare; Paul Mugur Svasta: "Implementation of 3D gesture control system for environmental control" - 2018 7th Electronic System-Integration Technology Conference (ESTC), 18-21 Sept. 2018, page 1-4, <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8546342>, 2018

E. Brevete de invenție obținute în întreaga activitate

1. Ionita Silviu, Mazare Alin Gheorghita, Ionescu Laurentiu Mihai, Angheliescu Petre, *Sistem cu radio-relev translator programabil pentru telecomenzi IR*, (System with programmable translating radio-relev for IR remote control), Brevet de inv.RO 126719B1/30.10.2017BOPI 10/2017, 2017, (TC_2_2017_DECIE, TC_2_2017_DECIE)

F. Granturi / proiecte de cercetare în perioada 1975 - 2019

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)

F2. Granturi / proiecte câștigate prin competiție națională

1. Gh. Șerban (director), E. Sofron (membru), I. Popa (membru), A. Ene (membru), S. Ioniță (membru), I. Bostan (membru), G. Iana (membru), L. Ionescu (membru), P. Angheliescu (membru), V. Ionescu (membru), A. Mazăre (membru), *Cronotahograf electronic digital pentru autovehicule de transport marfă și călători*, Programul AMTRANS, Contract nr.6810/15.10.2004, Nr. Inreg.:3231/15.10.2004, Valoare 5 500 000 mii lei Responsabil faza, 2004, (TC__DAT, TC__DAT)
2. S. Ioniță (coordonator contract), E. Sofron (coordonator științific), Gh. Șerban (membru), I. Bostan (membru), G. Iana (membru), P. Angheliescu (membru), L. Ionescu (membru), V. Ionescu, A. Mazăre

(membru), *Sisteme de masura accelerometrice avansate pentru investigari atmosferice cu sonde planetare*, AEROSPATIAL, Contract de finantare Nr.41044/Oct. 2004, 2004, (TC__DAT, TC__DAT)

3. Gheorghe Serban (director proiect), Ionita Silviu (membru), Ionel Bostan (membru), Iana Gabriel (membru), Zafiu Adrian (membru), Ionescu Laurentiu (membru), Alin Mazare (membru), *Principii de extindere si optimizare a performantelor laserilor cu mediu activ solid*, Contract nr. 05-D11-27, Nr. înreg. 1018/05-10-2005, 2005, (TC__DAT, TC__DAT)

4. Silviu Ionita (director), Emil Sofron (consultant stiintific), Gheorghe Serban (consultant stiintific), Ilie Popa (specialist, consultant), Ionel Bostan (membru), Marian Raducu (membru), Valeriu Ionescu (membru), Alin Mazare (membru), Petre Anghelescu, *Platforma Multimedia pentru Implementarea Teleserviciilor Medicale Complexe - TELMES*, Autoritatea Nationala pentru Cercetare Stiintifica, Programul Cercetare de Excelenta, Contract Nr. 1026/21.10.2005, 2005, (TC__DAT, TC__DAT)

5. Gheorghe Serban(director), Laurentiu Ionescu(membru), Gabriel Iana(membru), Alin Mazare(membru), *Servicii avansate de informare si ghidare pentru conducatori auto si calatori utilizand harti digitale – SAIGHID*, CEEEX 2005 Contract X2C25 Nr.6862, 2005, (TC__DAT, TC__DAT)

6. N. Bizon (director), A. Mazare, M. Oproescu, L. Ionescu, *Algoritmi inteligenti pentru controlul eficient al unui sistem inverter alimentat de la o pila de combustie*, Grant CNCISIS nr. 570, 2005, (TC__DAT, TC__DAT)

7. Silviu Ionita(responsabil stiintific partener), Petre Anghelescu (membru), Laurentiu Ionescu (membru), Valeriu Ionescu (membru), Alin Mazare (membru), *Sistem, pe suport NGN, pentru teleasistenta, la domiciliu, a persoanelor in varsta*, TELEASIS, PNCDI-II, Programul parteneriate in domenii prioritare, Contract Nr.604-440/14.09.2007 , VALOARE 200 000 RON (membru), 2007, (TC__DAT, TC__DAT)

8. Gheorghe Gavrioloaia, Georgescu C., Iana G., Ionescu L., Mazare A., Raducu M., Serban Gh., Sofron E., Drila G., *Algoritmi pentru prelucrarea fuzzy – haotica a imaginilor de la un analizor multispectral utilizat in depistarea precoce a cancerului*, 12-096/2008, MECI/PN-2, 2 000 000, 2008-2011, SENTINEL, Tip: Buget, Coordonator, Beneficiar MEC, Suma alocata 2009 177 899 (membru), 2008, (TC__DAT, TC__DAT)

9. Gheorghe Gavrioloaia, Serban Gheorghe, Iana Gabriel, Ionescu Laurentiu, Mazare Alin, Andrei Mirela, *Ansamblu sistem radiant – impuls purtator pentru comunicatii de banda ultra-larga la bordul navelor maritime*, 12085/2008 PNII, Beneficiar: Centrul de cercetare Stiintifica pentru Fortele Navale, Constanta, 390 000, 2008-2010, Tip: Buget, Partener, Beneficiar MEC, Suma alocata 2009: 23 067 (membru), 2008, (TC__DAT, TC__DAT)

10. Gheorghe Gavrioloaia, Sofron Emil, Serban Gheorghe, Iana Gabriel, Ionescu Laurentiu, Mazare Alin, Gerogescu Cristian, Dinu Tamara, *Sistem de acces wireless hibrid cu adresare unica*, 3932/2008, PNII, UPBuc 200 000, 2008-2011, Tip: Buget, Partener, Beneficiar MEC, Suma alocata 2009: 19 000 (membru), 2008, (TC__DAT, TC__DAT)

11. Gheorghe Gavrioloaia, Sofron Emil, Serban Gheorghe, Mazare Alin, Iana Gabriel, Ionescu Laurentiu, Georgescu Cristian, *Cresterea securitatii retelelor de comunicatii prin utilizarea tehnologiilor de identificare biometrica*, 604/289-16.06.2008, PNII, Institutul National de Studii si Cercetari pentru Comunicatii, 118 000, perioada de derulare 2008-2009, Tip: Buget, Partener, Beneficiar: MEC, Suma alocata pe 2009: 35 166 (membru), 2008, (TC__DAT, TC__DAT)

12. Oproescu Mihai, Mazare Alin Ghoerghita, Birleanu Florin-Marian, Marin George Iulian, *Sistem de achizitie, monitorizare, analiza si recunoastere a vibratiilor pentru protectia infrastructurilor critice (SmartVibes)*, Contract de finantare pentru executie proiecte cu Nr. 56PTE/2016, înregistrat la Universitatea din Pitești cu Nr. 7264/01.11.2016 și la UEFISCDI cu Nr. PN3_P2_115/06,11.2016, în cadrul Programului PN III Cooperare Europeană și Internațională – Subprogramul 2.1. Competivitate prin cercetare, dezvoltare și inovare, tip proiect Transfer la operatorul economic, cu titlul proiectului Sistem de achizitie, monitorizare, analiza și recunoastere a vibratiilor pentru protectia infrastructurilor critice cod proiect: SmartVibes PN-III-P2-2.1-PTE-2016-0215, Nr. 56PTE/2016, 2016, (TC_2_2016_DECIE, TC_2_2016_DECIE)

13. 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 științific:
Bioeconomie, valoare: 1533000.00, 2018, (TC_25_2018_DECIE)

Data: 06.05.2019

Cadrul didactic MAZARE ALIN GHEORGHITA
Semnătura