

LISTA DE LUCRĂRI
a cadrului didactic IANA VASILE GABRIEL

A. Teza de doctorat

Proiectarea de sisteme hardware (Structuri) pentru procesarea digitala a semnalelor, Domeniul Stiintific: Inginerie electronica si telecomunicatii cu specializarea Electronica Aplicata, Calculatoare, tehnologia informației, 2015

Proiectarea de sisteme hardware (Structuri) pentru procesarea digitala a semnalelor, Domeniul Stiintific: Inginerie electronica si telecomunicatii cu specializarea Electronica Aplicata, Calculatoare, tehnologia informației, 2015

B. Cărți și capitole în cărți publicate în perioada 2011 - 2021

B5. Manuale didactice, suport de curs

1. C.I. Rîncu, V.G. Iana, *Implementarea modulelor digitale cu structuri reprogramabile*, ISBN 978-973-640-234-0, 189 pagini, Editura Academiei Tehnice Militare, 2014

2. Gabriel V. Iana, *Procesarea Digitala a Semnalelor – Teorie si Aplicatii*, ISBN 978-606-560-423-9, 138 pagini Editura Universitatii din Pitesti, 2015

B6. Îndrumare de laborator, culegere de probleme

1. Iana Vasile Gabriel, *Procesarea digitala a semnalelor*, Indrumar de laborator, 2012

2. Iana Vasile Gabriel, *Inginerie software pentru telecomunicatii*, Indrumar de laborator, 2012

3. Iana Vasile Gabriel, *Programarea cu limbaje de descriere hardware*, Indrumar de laborator, 2013

C. Lucrări (articole) ISI / BDI publicate în perioada 2011 - 2021

C1. Articole în reviste cotate ISI Thomson Reuters

1. Petre Anghelescu, Silviu Ionita, Vasile-Gabriel Iana, *High-Speed PCA Encryption Algorithm using reconfigurable computing*, Journal Cybernetics and Systems (Taylor & Francis), Volume: 44 Issue: 4 Pages: 285-304, ID: 783375, ISSN: 0196-9722, eISSN: 1087-6553, FI2016=1.434DOI: 10.1080/01969722.2013.783375 Web of Science Categories: Computer Science, Cybernetics FI_2018=1.681, 2013, (TC_9_2013_DECIE)

2. N. Bizon, G. Iana, E. Kurt, P. Thounthong, M. Oproescu, M. Culcer, M. Iliescu, *Flow Real-time Optimization Strategy for Fuel Cell Hybrid Power Sources with Fuel Flow Based on Load-following*, Fuel Cell Journal, November 2018, Pages 809-823, ISSN: 1615-6846, Online ISSN: 1615-6854 <https://doi.org/10.1002/fuce.201700197> <https://onlinelibrary.wiley.com/journal/16156854> <https://www.scijournal.org/impact-factor-of-FUEL-CELLS.shtml> <https://www.scimagojr.com/journalsearch.php?q=26541&tip=sid&clean=0> FI_2018 = 2.149, 2018, (TC_14_2018_DECIE)

3. Nicu Bizon, Jose Manuel Lopez-Guedec, 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 Journal, Volume 179, 1 January 2019, Pages 152-165, ISSN: 0196-8904 DOI: <https://doi.org/10.1016/j.enconman.2018.10.058> <https://www.journals.elsevier.com/energy-conversion-and-management> <https://www.scijournal.org/impact-factor-of-ENERG-CONVERSION-MANAGE.shtml> <https://www.scimagojr.com/journalsearch.php?q=29372&tip=sid&clean=0> FI_2018=6.377, 2018, (TC_2_2018_DECIE)

4. C. Monea, G. V. Iana, S. Ionita, L. M. Ionescu, S. A. Zaharia, S. Ilie, and N. Bizon, *An optimized NQR spectrometer for detection of prohibited substances*, Measurement 151 (February 2020): 107158. doi:10.1016/j.measurement.2019.107158. FI_2019=2.7901, 2020

C2. Articole în volume indexate ISI Proceedings

1. Gabriel Iana, Petre Anghelescu, Gheorghe Serban, *RSA Encryption Algorithm Implemented on FPGA*, 2011 International Conference on Applied Electronics, Book Series: Applied Electronics, Pages: 177 – 180, Published: 2011, Pilsen, CZECH REPUBLIC, ISBN:978-80-7043-987-6, ISSN: 1803-7232 Web of Science Categories: Engineering, Electrical & Electronic, 2012, (TC_9_2012_DECIE)
2. Rincu, Cristian-Iulian; Iana, Vasile-Gabriel, *S-Box Design Based on Chaotic Maps Combination*, 10th International Conference on Communications (COMM), Pages: 1 – 4, Published: 2014, Bucharest, ISBN:978-1-4799-2385-4 DOI: 10.1109/ICComm.2014.6866741 Web of Science Categories: Engineering, Electrical & Electronic; Telecommunications, 2014, (TC_15_2014_DECIE)
3. Gabriel V. Iana, Cristian Monea, *Coin recognition system based on a neural network*, The 6th International Conference on Electronics, Computers and artificial Intelligence, Vol. 6, pag. 13-18, Published: 2014, Pitesti, ISBN:978-1-4799-5479-7, ISSN: 2378-7147 DOI: 10.1109/ECAI.2014.7090172 Web of Science Categories: Computer Science, Artificial Intelligence WOS:000380489500061, 2014, (TC_15_2014_DECIE)
4. Rincu, Cristian-Iulian; Iana, Vasile-Gabriel, *A Modified External-Key Cryptosystem for Digital Implementation*, 9th International Conference on Communications (COMM), Pages: 307-310, Published: 2012, Bucharest, ISBN:978-1-4673-2573-8 DOI: 10.1109/ICComm.2012.6262610 Web of Science Categories: Engineering, Electrical & Electronic; Telecommunications, 2014, (TC_15_2014_DECIE, TC_15_2014_DECIE)
5. Gabriel V. Iana, Valeriu Manuel Ionescu, *Virtualisation of VoIP laboratories*, 14th RoEduNet International Conference - Networking in Education and Research (NER'2015), Pages: 115-120, Published: 2015, Craiova, ISBN:978-1-4673-8180-2, ISSN: 2068-1038 DOI: 10.1109/RoEduNet.2015.7311979 Web of Science Categories: Computer Science, Hardware & Architecture; Computer Science, Information Systems, 2015, (TC_9_2015_DECIE, TC_9_2015_DECIE)
6. Valeriu Manuel Ionescu, Gabriel V. Iana, *Teaching virtualization laboratories in higher education*, 14th RoEduNet International Conference - Networking in Education and Research (NER'2015), Pages: 23-27, Published: 2015, Craiova, ISBN:978-1-4673-8180-2, ISSN: 2068-1038 DOI: 10.1109/RoEduNet.2015.7311822 Web of Science Categories: Computer Science, Hardware & Architecture; Computer Science, Information Systems, 2015, (TC_9_2015_DECIE, TC_9_2015_DECIE)
7. Iana Vasile Gabriel, Petre Anghelescu, *Vibration monitoring system for human activity detection*, The 7th International Conference on Electronics, Computers and artificial Intelligence, Vol. 2, Pages: AE41-AE44, Published: 2015, Bucharest, ISBN:978-1-4673-6647-2, ISSN: 2378-7147 DOI: 10.1109/ECAI.2015.7301184 Web of Science Categories: Computer Science, Artificial Intelligence; Computer Science, Theory & Methods; Engineering, Electrical & Electronic, 2015, (TC_9_2015_DECIE, TC_9_2015_DECIE)
8. Petre Anghelescu, Gabriel Vasile Iana, Ionut Tramandan, *Human footstep detection using seismic sensors*, The 7th International Conference on Electronics, Computers and artificial Intelligence, Vol. 2, Pages: AE1-AE18, Published: 2015, Bucharest, ISBN:978-1-4673-6647-2, ISSN: 2378-7147 DOI: 10.1109/ECAI.2015.7301179 Web of Science Categories: Computer Science, Artificial Intelligence; Computer Science, Theory & Methods; Engineering, Electrical & Electronic, 2015, (TC_9_2015_DECIE, TC_9_2015_DECIE)
9. Adrian-Viorel Diaconu, Valeriu Ionescu, Gabriel Iana, Jose Manuel Lopez-Guede, *A new bit-level permutation image encryption algorithm*, Communications (COMM), 2016 International Conference, Pages: 411-416, Published: 9-10 June 2016, Bucharest, ISBN:978-1-4673-8197-0, DOI: 10.1109/ICComm.2016.7528310 Web of Science Categories: Engineering, Electrical & Electronic; Telecommunications, 2016, (TC_9_2016_DECIE)
10. Iana Vasile Gabriel, Ionita Silviu, Ionescu Valeriu, *System for interpreting the characteristics of metal objects based on signal acquired from a magnetic loop antenna*, The 8th International Conference on Electronics, Computers and artificial Intelligence, Published: 2016, Ploiesti ROMANIA ISBN:978-1-5090-2047-8 ISSN: 2378-7147, 2016, (TC_9_2016_DECIE, TC_9_2016_DECIE)
11. Gheorghe Serban, Gabriel Vasile Iana, Petre Anghelescu, *Fault detection of direct radiator loudspeaker systems by phase characterisation*, The 8th International Conference on Electronics, Computers and artificial Intelligence, Published: 2016, Ploiesti ROMANIA, ISSN-1843-2115, 2016, (TC_9_2016_DECIE, TC_9_2016_DECIE)

12. Nicu Bizon ; Mihai Culcer ; Mihai Oproescu ; Gabriel Iana ; Ionescu Laurentiu ; Alin Mazare ; Mariana Iliescu, *Real-time strategy to optimize the Airflow rate of Fuel Cell Hybrid Power Source under variable load cycle*, Published in: Applied Electronics (AE), 2017 International Conference on Date of Conference: 5-6 Sept. 2017 Date Added to IEEE Xplore: 02 October 2017 DOI: 10.23919/AE.2017.8053577, 2017, (TC_13_2017_DECIE)
13. Florin-Marian Birleanu, Vasile-Gabriel Iana, Mihai Oproescu, Silviu Ionita, *Feature extraction for distance-based classification of signal sources*, Published in: 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 DOI: 10.1109/ECAI.2017.8166433, 2017, (TC_13_2017_DECIE)
14. Oproescu Mihai, Nicu Bizon, Gabriel Iana, Florin Birleanu, Ioan Lita, *Optimize of the long-term supply for a detection, vibration monitoring and recognition of the critical infrastructure protection system*, Published in: Applied Electronics (AE), 2017 International Conference on Date of Conference: 5-6 Sept. 2017 Date Added to IEEE Xplore: 02 October 2017 DOI: 10.23919/AE.2017.8053603, 2017, (TC_13_2017_DECIE)
15. Silviu Ionita, Gabriel Iana, *NQR detector: HW solutions and constructive issues*, Published in: 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 DOI: 10.1109/ECAI.2017.8166506, 2017, (TC_13_2017_DECIE)
16. Oproescu, M, Stanica, MD, Iana, VG, Lita, I, Gherghe, M, *Determining the Risk Level Regarding to the Positioning of an Exam Machine Used in the Nuclear Environment, based of polynomial regression*, PROCEEDINGS OF THE 2018 10TH INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI) Book Group Author(s): IEEE Book Series: International Conference on Electronics Computers and Artificial Intelligence Published: 2018, 2018, (TC_2_2018_DECIE)
17. Dogeanu, A, Nastase, I, Ursu, I, Enciu, D, Bode, F, Sandu, M, Croitoru, C, Zaharia, S, Iana, G, *Real time monitoring network demonstrator for air quality management*, Conference: 9th International Conference on Energy and Environment (CIEM) Location: Politehnica Univ Timisoara, Timisoara, ROMANIA Date: OCT 17-18, 2019, Pages: 459-463 Published: 2019, ISBN: 978-1-7281-1532-0 <https://doi.org/10.1109/ciem46456.2019.8937625> Web of Science Categories: Environmental Sciences, 2019, (TC_2_2019_DECIE)
18. M. Oproescu, G.-V. Iana, N. Bizon, O. C. Novac, and M. C. Novac, *Software and hardware solutions for using the keyboards by blind people*, Oproescu, Mihai, Gabriel-Vasile Iana, Nicu Bizon, Ovidiu Constantin Novac, and Mihaela Cornelia Novac. "Software and Hardware Solutions for Using the Keyboards by Blind People." 2019 15th International Conference on Engineering of Modern Electric Systems (EMES) (June 2019). doi:10.1109/emes.2019.8795191. , 2019, (TC_15_2019_DECIE)
19. G.-V. Iana, M. Oproescu, N. Bizon, O. C. Novac, and M. C. Novac, *Surface scanning device using ultrasound transducers*, Iana, Gabriel-Vasile, Mihai Oproescu, Nicu Bizon, Ovidiu Constantin Novac, and Mihaela Cornelia Novac. "Surface Scanning Device Using Ultrasound Transducers." 2019 15th International Conference on Engineering of Modern Electric Systems (EMES) (June 2019). doi:10.1109/emes.2019.8795211., 2019, (TC_15_2019_DECIE)
20. Mihai Oproescu, Ana Oproescu, Nicu Bizon, Gabriel Iana, *ROLE OF THE DEDICATED SOFTWARE APPLICATIONS IN EDUCATIONAL MANAGEMENT*, EDU WORLD 2018 - 8TH INTERNATIONAL CONFERENCE Edited by: Soare, E; Langa, C Book Series: European Proceedings of Social and Behavioural Sciences Volume: 67 Pages: 2141-2149 DOI: 10.15405/epsbs.2019.08.03.266 Published: 2019 Document Type: Proceedings Paper IBAN/ISSN: 2357-1330, 2019, (TC_12_2019_DECIE)
21. Mihai Oproescu, Ana Oproescu, Nicu Bizon, Gabriel Iana, *SOFTWARE APPLICATIONS USED FOR THE EDUCATIONAL ACTIVITY MANAGEMENT OF STUDENTS*, EDU WORLD 2018 - 8TH INTERNATIONAL CONFERENCE Edited by: Soare, E; Langa, C Book Series: European Proceedings of Social and Behavioural Sciences Volume: 67 Pages: 2150-2158 DOI: 10.15405/epsbs.2019.08.03.267 Published: 2019 Document Type: Proceedings Paper IBAN/ISSN: 2357-1330, 2019, (TC_12_2019_DECIE)
22. Iana V.G., Monea C, Oproescu Mihai, *The use of the clonal selection algorithm for NQR signal detection optimization*, PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON

ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI-2019)Book Group
Author(s):IEEEBook Series: International Conference on Electronics Computers and Artificial
IntelligencePublished:2019Document Type:Proceedings PaperConferenceConference: 11th International
Conference on Electronics, Computers and Artificial Intelligence (ECAI)Location: Pitesti,
ROMANIADate: JUN 27-29, 2019Sponsor(s):IEEE; IEEE Romania Sect; IEEE Ind Applicat Soc; Univ
Pitesti, Fac Elect, Commun & Comp; Guvernul Romaniei, Ministerul Educatiei Cercetarii Stiintifice , 2019,
(TC_12_2019_DECIE)

23. Oproescu, Mihai, Iana, Gabriel, Jianu, Eugenia, Anghel, Mihaela-Roxana, *E-learning in
Computer-Assisted Training, Advantages, Disadvantages and Future Trends*, PROCEEDINGS OF THE
11TH INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL
INTELLIGENCE (ECAI-2019)Book Group Author(s):IEEEBook Series: International Conference on
Electronics Computers and Artificial IntelligencePublished:2019Document Type:Proceedings
PaperConferenceConference: 11th International Conference on Electronics, Computers and Artificial
Intelligence (ECAI)Location: Pitesti, ROMANIADate: JUN 27-29, 2019Sponsor(s):IEEE; IEEE Romania
Sect; IEEE Ind Applicat Soc; Univ Pitesti, Fac Elect, Commun & Comp; Guvernul Romaniei, Ministerul
Educatiei Cercetarii Stiintifice, 2019, (TC_12_2019_DECIE)

24. Oproescu Mihai, Iana V.G., Monea C, *Application of genetic algorithm for optimization of NQR
signal detection*, PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON
ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI-2019)Book Group
Author(s):IEEEBook Series: International Conference on Electronics Computers and Artificial
IntelligencePublished:2019Document Type:Proceedings PaperConferenceConference: 11th International
Conference on Electronics, Computers and Artificial Intelligence (ECAI)Location: Pitesti,
ROMANIADate: JUN 27-29, 2019Sponsor(s):IEEE; IEEE Romania Sect; IEEE Ind Applicat Soc; Univ
Pitesti, Fac Elect, Commun & Comp; Guvernul Romaniei, Ministerul Educatiei Cercetarii Stiintifice, 2019,
(TC_8_2019_DECIE)

25. Oproescu, Mihai ; Iana, Vasile Gabriel; Bizon, Nicu; Anghel, Daniel-Constantin; Sirghie,
Alexandru ; Novac, Ovidiu Constantin, *Mechanical ventilation device with adapted parameters to assist
patients infected with the SARS-CoV-2 virus*, PROCEEDINGS OF THE 2020 12TH INTERNATIONAL
CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI-
2020)Book Group Author(s):IEEEBook Series: International Conference on Electronics Computers and
Artificial IntelligencePublished:2020Document Type:Proceedings Paper, 2020, (TC_15_2020_DECIE)

26. Plaiasu, Adriana-Gabriela: Oproescu, Mihai ; Anghel, Daniel-Constantin; Sirghie, Alexandru;
Iana, Vasile Gabriel, *Design of a mechatronic solution for the protection of personnel professionally exposed
to SARS-CoV-2 virus contamination*, PROCEEDINGS OF THE 2020 12TH INTERNATIONAL
CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI-
2020)Book Group Author(s):IEEEBook Series: International Conference on Electronics Computers and
Artificial IntelligencePublished:2020Document Type:Proceedings Paper, 2020, (TC_2_2020_DECIE)

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

1. Petre Anghelescu, Silviu Ionita, Vasile-Gabriel Iana, *FPGA Implementation of Cellular Automata
Based Encryption Algorithm for Internet Communications*, The 6th International Conference on Internet
Technology and Secured Transactions, ICITST 2011, Pages: 208-213, Published 2011, Abu Dhabi, ISBN:
978-1-908320-00-1Published in: Internet Technology and Secured Transactions (ICITST)INSPEC
Accession Number: 12540101, 2011

2. Bossoufi, B., Karim, M., Ioniță, S., Lagrioui, A., Iana, G.V., *Matlab & simulink simulation with
FPGA-based implementation sliding mode control of a permanent magnet synchronous machine drive*,
WSEAS Transactions on Systems and Control, Volume 6, Issue 3, Pages: 92-103, Published: March 2011,
ISSN: 1991-8763, 2011

3. I. V. Gabriel, A Petre, S Gheorghe, *Nonlinear Function Optimizations Based on Clonal Selective
Principle for Hardware Implementation*, 5th International Conference On Information Technology,
ICIT2011, Published May 20011, Amman, ISBN: 9957-8583-0-0, 2011

4. G. Iana, P. Anghelescu, G. Serban, I. Rincu, *SHA-1 cryptographic algorithm implemented on
FPGA*, Scientific Bulletin, Series "Electronics and Computers Science", vol. 1/2012, pp.7-13, ISSN 1453-
1119, 2012, (TC_9_2012_DECIE, TC_9_2012_DECIE)

5. Gabriel Vasile Iana, Georgeta Raluca Ionescu, *DSP system for rotary inverted pendulum control*, Scientific Bulletin, Series "Electronics and Computers Science", vol. 13, Issue 1/ 2013, Pages: 11-14, pISSN: 2344 – 2158, eISSN: 2344 – 2166, 2013, (TC_9_2013_DECIE, TC_9_2013_DECIE)
6. Cristian Monea, Gabriel Iana, *Coin signal recognition based on neural networks*, Scientific Bulletin, Series "Electronics and Computers Science", vol. 14, Issue 1/2014, Pages:19-24, pISSN: 2344 – 2158, eISSN: 2344 – 2166, 2014, (TC_15_2014_DECIE, TC_15_2014_DECIE)
7. Monea, C., Iana, G.V., Ionita, S., Oproescu, M, *Multi-criteria decision algorithm for NQR signal detection*, International Conference on Applied Electronics Volume 2020-September, September 2020, Article number 923279725th International Conference on Applied Electronics, AE 2020; Virtual, Pilsen; Czech Republic; 8 September 2020 through 9 September 2020; Category numberCFP2069A-PRT; Code 164220 , 2020, (TC_2_2020_DECIE)
8. Oproescu, M., Iana, G.V., Bizon, N., Monea, C., Calinescu, V, *Optimization of the multimedia consumers operation time*, International Conference on Applied Electronics Volume 2020-September, September 2020, Article number 923272125th International Conference on Applied Electronics, AE 2020; Virtual, Pilsen; Czech Republic; 8 September 2020 through 9 September 2020; Category numberCFP2069A-PRT; Code 164220, 2020, (TC_2_2020_DECIE)

E. Brevete de invenție obținute în întreaga activitate

1. ANGHEL DANIEL-CONSTANTIN [RO]; APOSTOL MARIAN [RO]; IANA VASILE-GABRIEL [RO]; ILIE MĂDĂLIN-EUGEN [RO]; IONESCU LAURENȚIU-MIHAI [RO]; IONIȚĂ SILVIU [RO]; MONEA CRISTIAN [RO]; VARGA ALEXANDRU FLORIAN [RO]; ZAHARIA SANDEL-AURELIAN [RO], *MOBILE DETECTOR AND METHOD FOR DETECTING SUBSTANCES WITH EXPLOSION HAZARD, EXPLOSIVES AND DRUGS BASED ON NUCLEAR QUADRUPOLE RESONANCE*, Priorities RO201600350A·2016-05-18Application RO201600350A·2016-05-18Publication RO131585B1·2019-04-30, 2019, (TC_2_2019_DECIE)

1. ANGHEL DANIEL CONSTANTIN [RO]; APOSTOL MARIAN [RO]; IANA VASILE GABRIEL [RO]; ILIE MADALIN EUGEN [RO]; IONESCU LAURENTIU-MIHAI [RO]; IONITA SILVIU [RO]; VARGA ALEXANDRU FLORIAN [RO]; ZAHARIA SANDEL AURELIAN [RO]; MONEA CRISTIAN [RO], *Mobile detector and method for detecting potentially explosive substances, explosives and drugs by nuclear quadrupole resonance (nqr)*, IPC G01N24/08; G01R33/44; G01V3/14; CPC G01N24/084 (EP,US); G01R33/441 (EP,US); G01V3/14 (EP,US); Priorities RO201600350A·2016-05-18; RO2017000009W·2017-05-16Application US201716302040A·2017-05-16Publication US10921271B2·2021-02-16Published as RO131585B1; US10921271B2; US2020182810A1; WO2018124905A1; WO2018124905A9, 2020, (TC_2_2020_DECIE)

F. Granturi / proiecte de cercetare în perioada 2011 - 2021

F1. Granturi / proiecte câștigate prin competiție internațională

1. *Advanced Protection of critical buildings by Overall anticipating System -ARGOS*, , Titlu contract: Advanced Protection of critical buildings by Overall anticipating System -ARGOS", Număr contract: 313217/2014 Coordonator proiect: EVERIS AEROESPACIAL Y DEFENSA SL, Spain Competiție/autoritate contractantă: FP7-SEC-2012-1, Work programme topics addressed: Topic SEC-2012.2.3-1 Early warning security systems: physical protection of critical buildings Perioada de derulare: 2014-2015 Valoare contract: 4730154 Euro Responsabil partener: Mihai Gherman, 2012, 0.00, (TC_9_2012_DECIE)

F2. Granturi / proiecte câștigate prin competiție națională

1. , *Utilizarea metodei rezonanței quadripolare nucleare la producerea de echipamente pentru detectia explozivilor si drogurilor – desmteh*, Titlu contract: Utilizarea metodei rezonanței quadripolare nucleare la producerea de echipamente pentru detectia explozivilor si drogurilor – DESMTEH Număr contract: Coordonator proiect: MIRATELECOM S.A. Competiție/autoritate contractantă: PROGRAMUL OPERAȚIONAL SECTORIAL CREȘTEREA COMPETITIVITĂȚII ECONOMICE/AXA PRIORITARĂ 2 – COMPETITIVITATE PRIN CDI, Operațiunea 2.3.3: Promovarea inovării în cadrul întreprinderilor/Autoritatea Națională pentru Cercetare Științifică (ANCS) Perioada de derulare: 2013-2015 Valoare contract: 3.7 mil. lei Director de proiect: ing. Sandel Zaharia, 2013, (TC_9_2013_DECIE)

2. , *Dezvoltarea unui senzor pentru detectia multipla si selectiva a unor explozibili reprezentativi*, Titlu contract: Dezvoltarea unui senzor pentru detectia multipla si selectiva a unor explozibili reprezentativi - SENSOREX Număr contract: 291/2014 Coordonator proiect: Institutul Național de Cercetare-Dezvoltare pentru Electrochimie și Materie Condensată Timisoara Competiție/autoritate contractantă: Program PARTENERIATE – Proiecte colaborative de cercetare aplicativă, DIRECȚIA DE CERCETARE: Domeniul 8 – Spațiu și securitate, Direcția de cercetare 8.4. Tehnici pentru securitate/ Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării (UEFISCDI)/ PN-II-PCCA-2013-4-0474. Perioada de derulare: 2014-2017 Valoare contract: 1437500 Lei Director proiect: Dr. Carmen Lazău, 2014, (TC_15_2014_DECIE)

3. , *Sistem de achiziție, monitorizare, analiza si recunoastere a vibratiilor pentru protectia infrastructurilor critice (SmartVibes)*”, Titlu contract: Sistem de achiziție, monitorizare, analiza si recunoastere a vibrațiilor pentru protecția infrastructurilor critice - SmartVibes Număr contract: 7264/01.11.2016 Coordonator proiect: UNIVERSITATEA DIN PITESTI Competiție/autoritate contractantă: UEFISCDI/ PN-III-P2-2.1-PTE-2016-0215 Perioada de derulare: 2016-2018 Valoare contract: 2441382 Lei <http://www.miratelecom.ro/cd/smartvibes/>, 2016, (TC_9_2016_DECIE)

4. G. Iana, *development of quadrupole and multipole ion trap based mass spectrometers for optical characterization and chemical analysis of atmospheric aerosol particles – QIT-MS*, Titlu contract: development of quadrupole and multipole ion trap based mass spectrometers for optical characterization and chemical analysis of atmospheric aerosol particles – QIT-MS Număr contract: 136/ 20.07.2017 ROSA Coordonator proiect: INSTITUTUL NATIONAL PENTRU FIZICA LASERILOR, PLASMEI SI RADIATIEI (INFLPR) Competiție/autoritate contractantă: PROGRAMUL DE CERCETARE-DEZVOLTARE-INOVARARE PENTRU TEHNOLOGIE SPAȚIALĂ ȘI CERCETARE AVANSATĂ – STAR, COMPETIȚIA PENTRU PROIECTE C3 - 2016 /Agenția Spațială Română Perioada de derulare: 2017-2019 Director: Dr. ing. Boghan Mihalcea, 2017, (TC_13_2017_DECIE)

5. G. Iana, *Advanced air diffusion system of the crew quarters for the iss and deep space habitation systems - QUEST*, Titlu contract: Advanced air diffusion system of the crew quarters for the iss and deep space habitation systems - QUEST Număr contract: STAR-CDI-C3-2016-577 Coordonator proiect: UNIVERSITATEA TEHNICĂ DE CONSTRUCȚII BUCUREȘTI Competiție/autoritate contractantă: PROGRAMUL DE CERCETARE-DEZVOLTARE-INOVARARE PENTRU TEHNOLOGIE SPAȚIALĂ ȘI CERCETARE AVANSATĂ – STAR, COMPETIȚIA PENTRU PROIECTE C3 – 2016. Perioada de derulare: 2017-2019 Valoare contract: 450000 Euro Director proiect: Dr. ing. Ilinca Năstase, 2017, (TC_13_2017_DECIE)

6. G. Iana, *Real time smart application for urban air quality management respecting the sensitive categories of population – SMARTSENSE*, Titlu contract: Real time smart application for urban air quality management respecting the sensitive categories of population – SMARTSENSE Număr contract: 55PED/2017 Coordonator proiect: UNIVERSITATEA TEHNICĂ DE CONSTRUCȚII BUCUREȘTI Competiție/autoritate contractantă: PROGRAMUL PROIECT EXPERIMENTAL DEMONSTRATIV, SUBPROGRAMUL COMPETITIVITATE PRIN CERCETARE, DEZVOLTARE ȘI INOVARE, PN-III-P2-2.1-PED-2016-1285/UEFISCDI Perioada de derulare: 2017-2018 Valoare contract: 145.126 Euro Director proiect: Dr. ing. Ilinca Năstase, 2017, (TC_2_2017_DECIE)

7. IANA VASILE GABRIEL, IONITA SILVIU, IANA VASILE GABRIEL, CIOC ION BOGDAN, DOBRE RADUCU RAZVAN, *Senzori si sisteme integrate electronice si fotonice pentru securitatea persoanelor si a infrastructurilor (SENSIS)/ Contract: 71PCCDI/2018.*, Cod: PN-III-P1-1.2-PCCDI-2017-0419, beneficiar: Universitatea POLITEHNICA București, anul: 2018, domeniul stiintific: Spatiu și securitate/TIC, valoare: 36000.00, 2018, (TC_27_2018_DECIE)

F3. Contracte de cercetare cu mediul socio-economic

1. Iana Vasile Gabriel, *Test of speaker system regarding feasibility, quality and cost. Theoretical evaluation & documentation of concept*, Titlu contract: Test of speaker system regarding feasibility, quality and cost. Theoretical evaluation & documentation of concept Contract nr. : 6/21.01.2014, Nr. Inreg. 5/24.01.2014 Coordonator proiect: UNIVERSITATEA DIN PITESTI Finanțare: S.C. DPR Draexlmaier Procese de Productie Romania SRL Beneficiar S.C. DPR Draexlmaier Procese de Productie Romania SRL Perioada de derulare: 2014 , 2014, (TC_15_2014_DECIE)