

LISTA DE LUCRĂRI
a cadrului didactic IONITA SILVIU

A. Teza de doctorat

Contributii privind dirijarea optima a vectorilor purtatori impotriva tintelor de mare viteza (1997).

B. Cărți și capitole în cărți publicate în perioada 2011 - 2022

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

1. Silviu Ionita, Daniela Turcanu-Carutiu, *Intelligent Image Processing and Optical Means for Archeological Artifacts Examination*, Chapter in *Advanced Methods and New Materials for Cultural Heritage Preservation*, (Ed. Daniela Turcanu-Carutiu), Published: February 11th 2019 [Online First], IntechOpen, DOI: 10.5772/intechopen.80615. Available from:

[https://www.intechopen.com/onlinefirst/intelligent-image-processing-and-optical-means-for-archeological-artifacts-examinationnr-pct=\(50/2\)/4=6.25](https://www.intechopen.com/onlinefirst/intelligent-image-processing-and-optical-means-for-archeological-artifacts-examinationnr-pct=(50/2)/4=6.25), 2019, (TC_12_2019_DECIE)

2. Silviu Ionita, Daniela Turcanu-Carutiu, *Automation of the Expertise of the Roman Mosaic Arts in Constanta: Analytical and Statistical Models for a Fuzzy Inference-Based System*, Chapter in *Heritage (Ed. Daniela Turcanu-Carutiu)*, ISBN: 978-1-83881-925-5, Published: June 15th 2020 [Online first] DOI: 10.5772/intechopen.92679. Available from: [https://www.intechopen.com/books/heritage/automation-of-the-expertise-of-the-roman-mosaic-arts-in-constantina-analytical-and-statistical-models-nr-pct=\(50/2\)/4=6.25](https://www.intechopen.com/books/heritage/automation-of-the-expertise-of-the-roman-mosaic-arts-in-constantina-analytical-and-statistical-models-nr-pct=(50/2)/4=6.25), 2020, (TC_11_2020_DECIE).

3. Silviu Ioniță and Daniela Țurcanu-Caruțiu, *Use of Drones for Digitization and Monitoring the Built Cultural Heritage: Indoor and Outdoor*, Published on line: October 15th 2021, DOI: 10.5772/intechopen.100346, <https://www.intechopen.com/online-first/78976>

B5. Manuale didactice, suport de curs

1. Silviu Ionita, Petre Anghelescu, *Ghid pentru realizarea proiectului de diplomă. Cu exemple din domeniul Calculatoare și Tehnologia informației*, Editura Universitară, Bucuresti, 2011, (120 pag.), ISBN 978-606-591-301-1 punctaj: 40/nr.autori =20, 2011

C. Lucrări (articole) ISI / BDI publicate în perioada 2011 - 2022

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), ISSN: 0196-9722, ID: 783375, DOI: 10.1080/01969722.2013.783375, Volume 44, Iss. 4, 2013.

(<http://www.tandfonline.com/loi/ucbs20>). Impact factor: 1.434 (2016). Accession Number:

WOS:000320016100001. ISSN: 0196-9722. eISSN: 1087-6553. Punctaj: $(25+30*0.698)/3= 15,31$, 2013, (TC_7_2013_DECIE, TC_8_2013_DECIE, TC_7_2013_DECIE, TC_8_2013_DECIE)

2. Shilei Sun, Silviu Ionita, Eva Volná, Andrey Gavrilov, Feng Liu, *Some highlights on fuzzy systems and data mining*, Articol editorial in *Journal of Intelligent & Fuzzy Systems*, vol. 31, no. 6, pp. 2757-2758, 2016, DOI:10.3233/JIFS-169156, (<http://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs169156>) ISSN 1064-1246. (Impact factor 1,261 (2016). Accession Number:

WOS:000392354800001, ISSN: 1064-1246, eISSN: 1875-8967).Punctaj: $(25+30*1.261)/5= 12,56$, 2016, (TC_7_2016_DECIE, TC_7_2016_DECIE)

3. Cristian Monea, Gabriel V Iana, Silviu Ionita, Laurentiu M Ionescu, Sandel A Zaharia, Stelian Ilie, Nicu Bizon, *An optimized NQR spectrometer for detection of prohibited substances*, *Measurement*, (Publisher Elsevier), Vol.151, Feb. 2020, Pages 107-158. ISSN (eISSN) revistă: 0263-2241

Indentificatorul DOI (Digital Object Identifier) al articolului/ WOS:

<https://doi.org/10.1016/j.measurement.2019.107158> Domeniul științific de clasificare ISI al revistei (Subject Category): INSTRUMENTS & INSTRUMENTATION, ENGINEERING,

MULTIDISCIPLINARITY Factorul de impact al revistei (conform cu ISI Web of Knowledge, Journal

Citation Reports, <http://admin-apps.isiknowledge.com/JCR/JCR>: 1.219Punctaj:(25+30*1.219)/7= 8,79 , 2020, (TC_4_2020_DECIE)

C2. Articole în volume indexate ISI Proceedings

1. Bossoufi, B., Karim, M., Lagrioui, A., Ionita, S, *FPGA-based implementation with simulation of structure Direct Torque Control of a PMSM*, In Multimedia Computing and Systems (ICMCS), International Conference on, 2011, April, (pp. 1-6). IEEE.Punctaj: $(25+20*0.25)/4= 7,50$, 2011
2. Petre Anghelescu, Ionut Serbanescu, Silviu Ionita, *Surveillance system using IP camera and face-detection algorithm*, The 5th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2013, Vol. 5, Number 4/2013, ISSN – 1843– 2115, pp. 47 – 52, Pitesti, 27 – 29 June, 2013. Indexare: IEEE XplorePunctaj: $(25+20*0.25)/3= 10$, 2013, (TC_8_2013_DECIE, TC_8_2013_DECIE)
3. Mohamed Barara; Ahmed Abbou; Mohamed Akherraz; Abderrahim Bennassar; Silviu Ionita; Emilian Lefter; Bogdan Enache, *Experimental Analysis on a Self Excited Induction Generator for Standalone Wind Electric Pumping Stations*, Book Group Author(s): IEEEConference: 12th International Conference on Development and Application Systems (DAS) Location: Suceava, ROMANIA Date: MAY 15-17, 2015Sponsor(s): Stefan Cel Mare Univ Suceava, Fac Elect Engn & Comp Sci; IEEE Ind Applicati Society, Romania Secti2014 INTERNATIONAL CONFERENCE ON DEVELOPMENT AND APPLICATION SYSTEMS (DAS) Pages: 29-36 Published: 2014. Accession Number: WOS:000359866000007, ISBN:978-1-4799-5094-2punctaj: $(25+30*0.25)/7= 4,64$, 2014, (TC_11_2014_DECIE, TC_11_2014_DECIE).
4. Petre Anghelescu; Stefan Angelescu; Silviu Ionita, *Real-time audio effects with DSP algorithms and DirectSound*, Electronics, Computers and Artificial Intelligence (ECAI), 2014 6th International Conference on, Year: 2014, Pages: 35 - 40, (DOI: 10.1109/ECAI.2014.7090207).
5. Silviu IONITA, *Autonomous vehicles: from paradigms to technology*, Book Group Author(s): IOP Conference: 11th International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment (CAR) Location: Pitesti, ROMANIA Date: NOV 08-10, 2017.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 012098 Published: 2017.Accession Number: WOS:000419817200098, 2017, (TC_11_2017_DECIE, TC_11_2017_DECIE)
6. Ionescu, LM ; Mazare, A.; Serban, G.; Ionita, S., *Real time monitoring system used in route planning for the electric vehicle*, Book Group Author(s):IOPINTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING - MOBILITY ENGINEERING AND ENVIRONMENT (CAR2017). Book Series: IOP Conference Series-Materials Science and Engineering. Volume: 252, ISSN: 1757-8981. Article Number: UNSP 012095, DOI: 10.1088/1757-899X/252/1/012095. Published: 2017. Accession Number: WOS:000419817200095., 2017, (TC_10_2017_DECIE, TC_10_2017_DECIE)
7. Badre Bossoufi, Silviu Ionita, Luminita Constantinescu, Hala Alami Arroussi, Madiha El Ghamrasni, Yasmine Ihedrane, *Managing voltage drops: a variable speed wind turbine connected to the grid*, INTERNATIONAL JOURNAL OF AUTOMATION AND CONTROL Volume: 11 Issue: 1 Pages: 15-34 Published: 2017 Publisher: INDERSCIENCE ENTERPRISES LTD, WORLD TRADE CENTER BLDG, 29 ROUTE DE PRE-BOIS, CASE POSTALE 856, CH-1215 GENEVA, SWITZERLANDAccession Number: WOS:000396552500002ISSN: 1740-7516; eISSN: 1740-7524Punctaj: $(25+30*0.25)/6=5,41$, 2018, (TC_18_2018_DECIE)
8. Ionita Silviu, Iana Gabriel, *NQR detector: HW solutions and constructive issues*, Conference: 9th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Location: Targoviste, ROMANIA Date: JUN 29-JUL 01, 2017Sponsor(s): IEEE Romania Sect; IEEE Ind Applicat Soc; Univ PitestiPROCEEDINGS OF THE 9TH INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE - ECAI 2017 Book Series: International Conference on Electronics Computers and Artificial Intelligence Published: 2017; pp.1-8. DOI: 10.1109/ECAI.2017.8166506Accession Number: WOS:000425865900122ISBN:978-1-5090-6458-8; ISSN: 2378-7147Punctaj: $(25+30*0.25)/2=16,25$, 2018, (TC_2_2018_DECIE)
9. Cazacu, D (Cazacu, Dumitru) ; Ionescu, V (Ionescu, Valeriu) ; Ionita, S (Ionita, Silviu) ; Virjoghe, E (Virjoghe, Elena), *On The Multishell Cylindrical Magnetostatic Shields:Analytical And Numerical Approach*, 2016 8TH 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: 2016 Accession Number: WOS:000402541200028 ISBN:978-1-5090-2047-8 ISSN: 2378-7147 Punctaj: $(25+20*0.25)/4=7,50$, 2018, (TC_9_2018_DECIE)

10. Ionita Silviu, *Modeling Human Sensory-Motor Action for Vehicle Braking Based on Fuzzy Inferences*, 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 PROCEEDINGS OF THE 2018 10TH INTERNATIONAL CONFERENCE ON ELECTRONICS, COMPUTERS AND ARTIFICIAL INTELLIGENCE (ECAI) Book Series: International Conference on Electronics Computers and Artificial Intelligence Published: 2018 Categories / Classification; Research Areas: Computer Science; Web of Science Categories: Computer Science, Artificial Intelligence; Accession Number: WOS:000467734100075 ISBN:978-1-5386-4901-5; ISSN: 2378-7147 Punctaj: $(25+30*0.25)/1=32,5$, 2018, (TC_11_2018_DECIE)

11. Daniela Andreea Coman; Silviu Ionita; Ioan Lita, *Electrical Model of the Human Head-Circuit Parameters*, 43rd International Spring Seminar on Electronics Technology (ISSE), Demanovska Valley, Slovakia, 2020, pp. 1-7, doi: 10.1109/ISSE49702.2020.9120904. WOS: 000610543500009 Punctaj: $(25+30*0.25)/3=10,83$, 2020, (TC_4_2020_DECIE)

12. D. A. Coman, S. Ionita and I. Lita, *Theoretical and Practical Aspects in the Design and Construction of Active Electrodes for EEG*, IEEE 26th International Symposium for Design and Technology in Electronic Packaging (SIITME), Oct. 21-24. WOS: 000651085100014. punctaj= $(25+30*0.25)/3=10,83$, 2020, (TC_4_2020_DECIE)

13. Florentin Vasile, Craciun A., Vladescu M., Schiopu, Feies, Codreanu N., Ionita S, Raducu M, *The use of homodyne detection for measuring small frequency differences between two RF oscillators*, Date Published: 31 December 2020 PDF: 7 pages Proc. SPIE 11718, Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies X, 117181A (31 December 2020); doi: 10.1117/12.2571200, WOS: 000641147900045 Author Affiliations F. Vasile, Univ. Politehnica of Bucharest (Romania) A. Craciun, Univ. Politehnica of Bucharest (Romania) M. Vladescu, Univ. Politehnica of Bucharest (Romania) P. Schiopu, Univ. Politehnica of Bucharest (Romania) V. Feies, Univ. Politehnica of Bucharest (Romania) N. Codreanu, Univ. Politehnica of Bucharest (Romania) S. Ionita, Univ. of Pitesti (Romania) M. Raducu, Univ. of Pitesti (Romania) Published in SPIE Proceedings Vol. 11718: Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies X Marian Vladescu; Razvan D. Tamas; Ionica Cristea, Editor(s) Punctaj= $(25+30*0.25)/8=4,06$, 2020, (TC_5_2020_DECIE).

14. Monea, C., Iana, G. V., Ionita, S., Oproescu, M. (2020, September). *Multi-criteria decision algorithm for NQR signal detection*. In 2020 International Conference on Applied Electronics (AE) (pp. 1-4). DOI: 10.23919/AE49394.2020.9232797, WOS:000659296200020, IEEE <https://ieeexplore.ieee.org/abstract/document/923279>, Available from: <https://dspace5.zcu.cz/bitstream/11025/39913/1/09232797.pdf>. (TC_4_2020_DECIE)

15. Coman Andreea Daniela; Ionita Silviu; Lita Ioan, *A Neuronal Model of the Primary Visual Cortex: Simulation of Visual Evoked Potentials*, Published in: 2021 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Date of Conference: 1-3 July 2021, Date Added to IEEE Xplore: 23 August 2021, DOI: 10.1109/ECAI52376.2021.9515133.

16. Florentin Vasile; Alexandru Craciun; Marian Vladescu; Paul Schiopu; Valentin Feies; Iulian Busu; Norocel Codreanu; Madalin Moise; Silviu Ionita; Marian Raducu, *Electronic Circuit for Differential Measurement using Resonant Sensors: Designing Approach*, 2021 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Date of Conference: 1-3 July 2021, Date Added to IEEE Xplore: 23 August 2021 DOI: 10.1109/ECAI52376.2021.9515059.

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

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, ISBN: 978-1-908320-00-1, pag. 208-213, UAE, Abu Dhabi, 11 – 14 December 2011, <http://www.icitst.org/>. Indexare: Scopus, IEEE Xplore, Google Scholar. Punctaj: $20/3=6,66$, 2011

2. 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), published in Programmable Devices and Embedded Systems, Volume # 12, Part# 1, pp 155-160. Punctaj: 20/3 = 6,66, 2013, (TC_9_2013_DECIE, TC_9_2013_DECIE)
3. Florin-Marian Birleanu, Vasile-Gabriel Iana, Mihai Oproescu, Silviu Ionita, *Feature extraction for distance-based classification of signal sources*, ECAI 2017 - International Conference – 9th Edition Electronics, Computers and Artificial Intelligence, 29 June -01 July, 2017, Targoviste, ROMÂNIA, pp.1-4. DOI: 10.1109/ECAI.2017.8166433. ieeexplore., 2017, (TC_17_2017_DECIE, TC_17_2017_DECIE)
4. Iana Gabriel, Ionita Silviu, Ionescu Valeriu, *System for interpreting the characteristics of metal objects based on signal acquired from a magnetic loop antenna*, Published in: 2016 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Date of Conference: 30 June-2 July 2016 Date Added to IEEE Xplore: 23 February 2017 INSPEC Accession Number: 16692409 DOI: 10.1109/ECAI.2016.7861129 Publisher: IEEE Punctaj: 20/3 = 6,66, 2018, (TC_4_2018_DECIE)
5. D. A. Coman, S. Ionita and I. Lita, "Using Multiple Frequency Selection at Each Measurement Channel to Analyze Brain Electrical Activity" 2022 14th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 2022, pp. 1-6, doi: 10.1109/ECAI54874.2022.9847429.

Cumulativ $C=C1+C2+C3=24$ lucrari

D. Lucrări (articole) publicate în perioada 2011 - 2021 în reviste și volume de conferințe cu referenți (neindexate)

1. El-Attar, A. a b , Karim, M.A , Tairi, H. a , Ionita, S. *A robust multistage algorithm for camera selfcalibration dealing with varying intrinsic parameters*, (2011) Journal of Theoretical and Applied Information Technology, 32 (1), pp. 46-54.
2. E. Roventa, S. Ionita, *Nuances of Modern IT Curriculum*, Univ. of Pitesti. Scientific Bulletin. Series: Electronics and Computers Science, Vol.11, Issue 2/2011, pp.1-8, ISSN 1453-1119. (<http://jml.indexcopernicus.com/karta.php?action=masterlist&id=4900>)
3. Bossoufi, B., Karim, M., Ionita, S. , Lagrioui, A. *Nonlinear non adaptive backstepping with sliding-mode torque control approach for PMSM motor*, Journal of Electrical Systems, 8 (2), (2012), pp.236-248.
4. Silviu IONITA, Gabriel IANA, Săndel ZAHARIA, Cristian MONEA, *An agent-based communications model for emergency scenarios deployment in case of disasters and temporary events*, Revista Telecomunicații, An LVII, nr.2/2014. (<http://www.telecomunicatii.agir.ro/articol.php?id=2209>).
5. Silviu IONITA. *Multi Agent Holonic Architecture: A concept for Power Smart Grids*, UNIVERSITY OF PITESTI SCIENTIFIC BULLETIN. Series: Electronics and Computers Science, 2015: Vol 15, Issue 2, pp 1-12. (<https://sites.google.com/site/scipioupit/home>).
6. Silviu IONITA, Inteligența artificială – între tehnologie și etică, Studii și comunicări – Divizia de Istoria Științei, Academia Română, Vol.VIII/2015, ISSN: 1844 – 9220, pp.105-117. (<http://studii.crifst.ro/2015.php>).
7. Silviu Ionita, *Experimental Research to Develop a V2V Image Transmission System*, Revista Telecomunicatii, An LXIX, nr. 2/2016, pp. 3-8. (<http://www.telecomunicatii.agir.ro/articol.php?id=2787>)

E. Brevete de invenție obținute în întreaga activitate

1. Silviu Ionita, Alin Mazare, Laurentiu Ionescu, Petre Angheliescu, *Sistem cu radio-relev translator programabil pentru telecomenzi în IR*, (System with programmable translating radio-rely for IR remote control), Brevet de inv.RO 126719B1/30.10.2017BOPI 10/2017, 2017, (TC_2_2017_DECIE, TC_2_2017_DECIE)
2. Zaharia Sandel, Apostol Marian, Ionita Silviu, Iana Vasile-Gabriel, Monea Cristian, Ionescu Laurentiu, Anghel Daniel, Florin Varga, *DETECTOR MOBIL SI METODA DE DETECTIE A SUBSTANTELOR CU RISC EXPLOZIV, A EXPLOZIVILOR SI A DROGURILOR PE BAZA EFECTULUI*

REZONANTEI NUCLEARE CUADRIPOLE (NQR), RO 131585 B1 din 30.04.2019nrp=25/8=3,12, 2019, (TC_2_2019_DECIE)

3. Zaharia Sandel, Apostol Marian, Ionita Silviu, Iana Vasile-Gabriel, Monea Cristian, Ionescu Laurentiu, s.a., MOBILE DETECTOR AND METHOD FOR DETECTING POTENTIALY EXPLOSIVE SUBSTANCES, EXPLOZIVES AND DRUGS BY NUCLEAR QUADUPOLE RESONANCE (NQR), United States Patent, Patent No. 10.921.271 B2, Date Feb. 16 2021.

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

F2. Granturi / proiecte câștigate prin competiție națională

1. Silviu Ionita, *Utilizarea metodei rezonanței quadripolare nucleare la producerea de echipamente pentru detectia explozivilor si drogurilor – DESMTEH*, POS CCE, Axa prioritară 2 – Competitivitate prin CDI, Operatiunea 2.3.3: Promovarea inovării în cadrul întreprinderilor (Coordonator: MIRA Technologies Group)(<https://www.agerpres.ro/ots/2016/02/03/mira-technologies-group-premiera-in-antidetecia-explozibililor-12-07-57>)Echipa (FECC): Silviu Ionita, Gabriel Iana, Laurentiu Ionescu*2ani=4, 2014, (TC_2_2014_DECIE, TC_4_2014_DECIE, TC_2_2014_DECIE, TC_4_2014_DECIE)

2. Silviu Ionita, *Sistem de achiziție, monitorizare, analiză și recunoaștere a vibrațiilor pentru protecția infrastructurilor critice (SmartVibes)*, Proiect PN III: Programul 2 - Creșterea competitivității economiei românești prin cercetare, dezvoltare și inovare , Tip proiect: Transfer la operatorul economic, 2016- 2018. (Cordonator: Mira Technologies Group).Punctaj: 2x1an =2, 2016, (TC_2_2016_DECIE, TC_4_2016_DECIE, TC_2_2016_DECIE, TC_4_2016_DECIE)

3. IONITA SILVIU, IONITA SILVIU, IANA VASILE GABRIEL, CIOC ION BOGDAN, OPROESCU MIHAI, RADUCU MARIAN, *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 științific: Spatiu și securitate/TIC, valoare: 36000.00, 2018, (TC_27_2018_DECIE)

Data: 14.09.2022

**Cadrul didactic
IONIȚĂ SILVIU**

Semnătura