Universitatea Națională de Știință și Tehnologie Politehnica București
Facultatea de Automatică și Calculatoare
Departamentul de Automatică și Informatică Industrială

LISTA DE LUCRĂRI

Candidat: PIETRARU Radu Nicolae

Lista a maximum 10 lucrări cele mai relevante pentru realizările profesionale:

1. **Pietraru, R.N.**; Olteanu, A.; Nicolae, M.; Crăciun, R.-A. Contributions to the Development of Fire Detection and Intervention Capabilities Using an Indoor Air Quality IoT Monitoring System. Sensors 2025, 25, 6375. https://doi.org/10.3390/s25206375
2. **Pietraru, R.N.**; Martin, D.-N.; Olteanu, A. Contributions to Studying the Quality of Life in Inner Urban Environments Through the Publication of Open Data. Urban Sci. 2025, 9, 209. https://doi.org/10.3390/urbansci9060209
3. **Pietraru, R.N.**; Olteanu, A.; Adochiei, I.-R.; Adochiei, F.-C. Reengineering Indoor Air Quality Monitoring Systems to Improve End-User Experience. Sensors 2024, 24, 2659. https://doi.org/10.3390/s24082659
4. **Pietraru, R.N.**; Nicolae, M.; Mocanu, Ș.; Merezeanu, D.-M. Easy-to-Use MOX-Based VOC Sensors for Efficient Indoor Air Quality Monitoring. Sensors 2024, 24, 2501. https://doi.org/10.3390/s24082501
5. **R. N. Pietraru**, A. Olteanu, A. Ş. Velicu and R. -A. Craciun, "Healing IoT Data for Indoor Air Quality Using Artificial Intelligence," 2024 E-Health and Bioengineering Conference (EHB), IASI, Romania, 2024, pp. 1-4, doi: 10.1109/EHB64556.2024.10805630.
6. **Pietraru, R.N.**, Merezeanu, D.M., Ciofu, I., Persu, C. (2024). Cyber-Physical Penile Implant: Necessity or Premature Technological Risk? In: Costin, HN., Magjarević, R., Petroiu, G.G. (eds) Advances in Digital Health and Medical Bioengineering. EHB 2023. IFMBE Proceedings, vol 110. Springer, Cham. https://doi.org/10.1007/978-3-031-62520-6_51
7. **R. N. Pietraru**, R. -A. Crăciun and D. -M. Merezeanu, "Rapid Deployment of Low-Cost Wireless Monitoring Solution for Smart Building," 2024 International Conference Automatics and Informatics (ICAI), Varna, Bulgaria, 2024, pp. 377-380, doi: 10.1109/ICAI63388.2024.10851499
8. **R. N. Pietraru**, A. Olteanu, R. -A. Crăciun and M. A. Moisescu, "Using IoT Sensors to Assess the Impact of Wood Heating on Air Quality," 2024 23rd RoEduNet Conference: Networking in Education and Research (RoEduNet), Bucharest, Romania, 2024, pp. 1-5, doi: 10.1109/RoEduNet64292.2024.10722582
9. **R. N. Pietraru**, F. -C. Adochiei, I. M. Costea and C. K. Bănică, "Comfort vs Health: A Winter Snapshot of Indoor Air Quality During the Energy Crisis," 2023 13th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, 2023, pp. 1-5, doi: 10.1109/ATEE58038.2023.10108245.
10. **R. N. Pietraru**, S. Andrei, M. Nicolae and D. M. Merezeanu, "A WiFi Sniffing Solution for Safe Return to Classes," 2021 12th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2021, pp. 1-5, doi: 10.1109/ATEE52255.2021.9425125.

I. TEZA (E) DE DOCTORAT (T)

Pietraru Radu Nicolae, "Servere de Securitate în Internet", 2009, domeniul Ingineria Sistemelor, Universitatea Politehnica București

II. CĂRŢI PUBLICATE (C)

Cb - Cărţi de specialitate publicate în edituri recunoscute (autor, coautor, editor).

Cb1. Ionescu Traian, **Pietraru Radu**, "Structura și funcționarea sistemelor de calcul" Politehnica Press, 2010 ISBN 978-606-515-171-0 004 CIP 2010-18450

Cb2. **Pietraru Radu Nicolae**, Olteanu Adriana, Anghel Ana Magdalena. "Generarea şi manipularea textelor, tabelelor şi imaginilor", Editura Politehnica Press, 2010. ISBN 978-606-515-172-7. CIP 2010-18954 . https://www.bibnat.ro/dyn-doc/publicatii/CIP/Bibliografia%20cartilor%20in%20curs%20de%20aparitie%20-%20CIP%20octombrie%202010.pdf

Cb3.. Anghel Ana Magdalena, Olteanu Adriana, **Pietraru Radu**, "Realizarea paginilor WEB", Editura Politehnica Press, 2011. ISBN 978-606-515-248-9 004.738.52. CIP 2011-03137. https://www.bibnat.ro/dyn-doc/publicatii/CIP/Bibliografia%20CIP%20-%20februarie %202011.pdf

Cb4. Olteanu Adriana, **Pietraru Radu Nicolae**, Anghel Ana Magdalena, "Baze de date şi utilizarea acestora", Editura Politehnica Press, 2011. ISBN 978-606-515-246-5 004 004.65. CIP 2011-03123. https://www.bibnat.ro/dyn-doc/publicatii/CIP/Bibliografia%20CIP%20-%20februarie%202011.pdf

Cb5. **Radu Pietraru**, Alexandru Velicu - Elemente practice de baza in dezvoltarea sistemelor cu microprocesoare integrate, Editura TechnoMedia 2013, ISBN 9780606-616-093-3

Cb6. **Radu Pietraru**, Alexandru Velicu - Elemente practice de baza in dezvoltarea sistemelor cu microprocesoare integrate (editia a II-a), Editura TechoMedia 2014, ISBN 978-606-616-140-4

Cb7. **Radu Pietraru** - 10(zece) proiecte cu Arduino, Editura TechnoMedia 2015, ISBN 978-606-616-167-1, Editura CNCSIS 287/2015

Cb8. Radu Pietraru - 10(zece) proiecte cu Raspberry Pi 3, Editura TechnoMedia 2017, ISBN 978-606-616-259-3, Editura CNCSIS 287

Cb9. Radu Pietraru - 10(zece) proiecte Internet of Things, Editura TechnoMedia 2017, ISBN 978-606-616-282-1, Editura CNCSIS 287

III. ALTE MATERIALE PUBLICATE (I,D)

D - Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcţionale etc.

D1. Ionita, A.D., Olteanu, A., **Pietraru, R.N.** (2020). Knowledge and Decision Support for Hazard Awareness. In: Fred, A., Salgado, A., Aveiro, D., Dietz, J., Bernardino, J., Filipe, J. (eds) Knowledge Discovery, Knowledge Engineering and Knowledge Management. IC3K 2019. Communications in Computer and Information Science, vol 1297. Springer, Cham. https://doi-org.am.e-nformation.ro/10.1007/978-3-030-66196-0_16

D2. Maximilian Nicolae, **Radu Pietraru**, Stefan Mocanu, A CPS Perspective on Teaching Engineering Laboratories during Pandemics, 2022, Cyber-Physical Systems, Pagini 86-108, CRC Press, eBook ISBN 9781003186380

I - Culegeri şi Îndrumare publicate (separate în edituri cu ISBN şi în tipografii locale/de instituţii sau de uz intern).

I1. **Pietraru, R.N.**, Suport de curs și platformă de laborator (electronic –uz intern): Sisteme cu micropocesoare

I2. **Pietraru, R.N.**, Suport de curs și platformă de laborator (electronic –uz intern): Sisteme cu micropocesoare integrate

I3. **Pietraru, R.N.**, Suport de curs și platformă de laborator (electronic –uz intern): Arhitecturi informatice performante

I4. **Pietraru, R.N.**, Suport de curs și platformă de laborator (electronic –uz intern): Managementul distribuit al informațiilor prin arhitecturi Cloud și IoT

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

Ris - Reviste de specialitate de circulaţie internaţională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta). *Se mentioneaza la fiecare lucrare includerea in Baza ISI [Accession Number, WOS=...., ultimul Factor Impact, ISSN] si/sau denumirea altei (altor) BDI.*

Ris1. Dumitru, M.-C.; Caramihai, S.-I.; Dumitrascu, A.; **Pietraru, R.-N.**; Moisescu, M.-A. AI-Enabled Dynamic Edge-Cloud Resource Allocation for Smart Cities and Smart Buildings. Sensors 2025, 25, 7438. https://doi.org/10.3390/s25247438 WOS:001647404900001 [Q2]

Ris2. Pietraru, R.N.; Olteanu, A.; Nicolae, M.; Crăciun, R.-A. Contributions to the Development of Fire Detection and Intervention Capabilities Using an Indoor Air Quality IoT Monitoring System. Sensors 2025, 25, 6375. https://doi.org/10.3390/s25206375 WOS:001602597100001 [Q2]

Ris3. Dumitru, MC; Moisescu, MA; **Pietraru, RN** EVALUATING SMART BUILDINGS AS FOG LAYER FOR SMART CITIES UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES C-ELECTRICAL ENGINEERING AND COMPUTER SCIENCE Volume87 Issue2 Page97-110 2025 ISSN 2286-3540 WOS:001510901300008

Ris4. Pietraru, R.N.; Martin, D.-N.; Olteanu, A. Contributions to Studying the Quality of Life in Inner Urban Environments Through the Publication of Open Data. Urban Sci. 2025, 9, 209. https://doi.org/10.3390/urbansci9060209 WOS:001516003600001 [Q1]

Ris5. Vasilica, B.-V.; Anton, F.-D.; **Pietraru, R.**; Anton, S.-O.; Chiriac, B.-N. Enhancing Security in Smart Robot Digital Twins Through Intrusion Detection Systems. Appl. Sci. 2025, 15, 4596. WOS:001486250800001 [Q2]

Ris6. Olteanu, A.; Marian, C.G.; **Pietraru, R.N.** Smartwatch-Based Monitoring and Alert System for Factory Operators Using Public Cloud Services. Appl. Sci. 2025, 15, 2806. WOS:001442317500001 [Q2]

Ris7. Craciun, R.-A.; Caramihai, S.I.; Mocanu, Ș.; **Pietraru, R.N.**; Moisescu, M.A. Hybrid Machine Learning for IoT-Enabled Smart Buildings. Informatics 2025, 12, 17. WOS:001452628000001 [Q2]

Ris8. Pietraru, R.N.; Olteanu, A.; Adochiei, I.-R.; Adochiei, F.-C. Reengineering Indoor Air Quality Monitoring Systems to Improve End-User Experience. Sensors 2024, 24, 2659. https://doi.org/10.3390/s24082659 WOS:001220198700001 [Q2]

Ris9. Pietraru, R.N.; Nicolae, M.; Mocanu, Ș.; Merezeanu, D.-M. Easy-to-Use MOX-Based VOC Sensors for Efficient Indoor Air Quality Monitoring. Sensors 2024, 24, 2501. https://doi.org/10.3390/s24082501 WOS:001210185600001 [Q2]

Ris10. R. -A. Craciun, **R. Nicolae Pietraru** and M. Alexandru Moisescu, "INTERNET OF THINGS PLATFORM BENCHMARK: AN ARTIFICIAL INTELLIGENCE ASSESSMENT", RRST-EE, vol. 69, no. 1, pp. 97–102, Apr. 2024, doi: 10.59277/RRST-EE.2024.1.17. WOS:001202397500001

Ris11. Olteanu, A**.; Pietraru, R.**; Olarescu, SM.; Moalfa, M., Innovations in the Educational Process in Technical Universities Based on an Ontology for Interactive Teaching System, Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique,Volume 66, Issue 1, Page 53-58, 2021, factor impact ISI 0.67, ISSN0035-4066, WOS:000645139100009.

Ris12. Craciun, RA; **Pietraru, RN**; Moisescu, MA;, "CONSUMERS' REGULATIONS FOR INTERNET of THINGS", UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES C-ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, Volume83, Issue4, Page 189-200, 2021, WOS:000741473700001, ISSN 2286-3540

Ris13. Mocanu, S; Duluta, A; Merezeanu, D; **Pietraru, R**; "Improved Security Based on Combined Encryption and Steganography Techniques", STUDIES IN INFORMATICS AND CONTROL Volume: 26 Issue: 1 Pages: 115-126 Published: MAR 2017 WOS:000400630300013 ISSN: 1220-1766 DOI10.24846/v26i1y201713

Ris14. Dobrica, L., Ionita, A.D., **Pietraru, R.**, Olteanu, A., Automatic Transformation of Software Architecture Models, U.P.B Scientific Bulletin- Series C; Electrical Engineering and Computers Science, Number 3, 2011, ISSN 1454 - 234x, pp. 3-16, BDI: INSPEC, SCOPUS.

Ris15. Dobrica, L., **Pietraru R.**, Security Analysis at Architectural Level in Embedded Software Development, in Control Engineering and Applied Informatics, vol. 11, issues 2, pg. 51-58, iunie 2009, ISSN 1454-8658; ISI WOS:000268933600007

Ris16. Radu Pietraru, Global security model, U.P.B; Scientific Bulletin Series C: Electrical Engineering and Computers Science, vol. 72, n3. 3, 2010, pg. 53-62 ISSN 1454-234x WOS:000421647900005

Vis- Volumele unor manifestări ştiinţifice internaţionale recunoscute, organizate in ţară şi străinătate, indexate ISI Thomson Reuters sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a publicatiilor pe baza unor criterii de performanta. *Se mentioneaza la fiecare lucrare includerea in Baza ISI [ISI Proceedings, Accession Number, WOS=....., ISSN] si/sau denumirea altei (altor) BDI.*

Vis1. R. N. Pietraru, A. Olteanu, A. Ş. Velicu and R. -A. Craciun, "Healing IoT Data for Indoor Air Quality Using Artificial Intelligence," 2024 E-Health and Bioengineering Conference (EHB), IASI, Romania, 2024, pp. 1-4, doi: 10.1109/EHB64556.2024.10805630. WOS: 001413708800018

Vis1. S. -M. Petrică, I. Făgărășan, I. Stamatescu, N. Arghira and **R. -N. Pietraru**, "Low-cost air pollution monitoring systems," 2024 28th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2024, pp. 258-263, doi: 10.1109/ICSTCC62912.2024.10744643. WOS:001440908400043

Vis2. M. C. Dumitru, M. A. Moisescu, **R. N. Pietraru** and E. Pop, "Extending Internet of Things Systems with Fog and Edge Computing," 2024 IEEE International Conference on Engineering, Technology, and Innovation (ICE/ITMC), Funchal, Portugal, 2024, pp. 1-6, doi: 10.1109/ICE/ITMC61926.2024.10794307. WOS:001429193000057

Vis3. Pietraru, R.N., Merezeanu, D.M., Ciofu, I., Persu, C. (2024). Cyber-Physical Penile Implant: Necessity or Premature Technological Risk?. In: Costin, HN., Magjarević, R., Petroiu, G.G. (eds) Advances in Digital Health and Medical Bioengineering. EHB 2023. IFMBE Proceedings, vol 110. Springer, Cham. https://doi.org/10.1007/978-3-031-62520-6_51 WOS:001326809000051

Vis4. R. -A. Craciun, **R. N. Pietraru** and M. A. Moisescu, "Secure IoT Gateway: The First Layer of Cybersecurity for Secure Infrastructure in Smart Cities," 2023 IEEE International Smart Cities Conference (ISC2), Bucharest, Romania, 2023, pp. 1-5, doi: 10.1109/ISC257844.2023.10293352.IEEE Xplore

Vis5. R. -A. Craciun, **R. N. Pietraru**, S. Mocanu and M. A. Moisescu, "IoT Intrusion Detection: A Machine Learning Assessment," 2023 24th International Conference on Control Systems and Computer Science (CSCS), Bucharest, Romania, 2023, pp. 307-312, doi: 10.1109/CSCS59211.2023.00055 BDI Scopus, IEEE Xplore

Vis6. M. -C. Dumitru, **R. N. Pietraru** and M. A. Moisescu, "LoRaWAN as Open Scalable IoT Ecosystem," 2023 13th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, 2023, pp. 1-6, doi: 10.1109/ATEE58038.2023.10108268.BDI Scopus, IEEE Xplore

Vis7. R. -A. Craciun, **R. Nicolae Pietraru** and M. Alexandru Moisescu, "IoT Device Identification: A Machine Learning Assessment," 2023 13th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, 2023, pp. 1-6, doi: 10.1109/ATEE58038.2023.10108170.BDI Scopus, IEEE Xplore

Vis8. R. N. Pietraru, F. -C. Adochiei, I. M. Costea and C. K. Banica, "Comfort vs Health: A Winter Snapshot of Indoor Air Quality During the Energy Crisis," 2023 13th International Symposium on Advanced Topics in Electrical

Engineering (ATEE), Bucharest, Romania, 2023, pp. 1-5, doi: 10.1109/ATEE58038.2023.10108245.BDI Scopus, IEEE Xplore

Vis9. R. N. Pietraru, F. -C. Adochiei and I. M. Costea, "Winter in Europe 2022–2023 - Concerns About The Effects of The Energy Crisis On Indoor Environmental Quality and Public Health," 2022 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2022, pp. 1-4, doi: 10.1109/EHB55594.2022.9991418.BDI Scopus, IEEE Xplore

Vis10. M. -C. Dumitru, M. A. Moisescu and **R. Pietraru**, "A Review of Dynamic Resource Allocation in Edge and Fog Oriented Enterprise Systems," 2021 23rd International Conference on Control Systems and Computer Science (CSCS), 2021, pp. 295-301, doi: 10.1109/CSCS52396.2021.00055. BDI Scopus, IEEE Xplore

Vis11. Bidilă; T.; **Pietraru; R.N.**; Ioniță; A.D.; Olteanu, A., Monitor Indoor Air Quality to Assess the Risk of COVID-19 Transmission, 2021 23rd International Conference on Control Systems and Computer Science (CSCS), Electronic ISBN:978-1-6654-3939-8, INSPEC Accession Number: 21230009, DOI: 10.1109/CSCS52396.2021.00065, Publisher: IEEE, 2021. BDI, Scopus, IEEEExplore.

Vis12. M. -C. Dumitru, M. A. Moisescu and **R. Pietraru**, "A Review of Dynamic Resource Allocation in Edge and Fog Oriented Enterprise Systems," 2021 23rd International Conference on Control Systems and Computer Science (CSCS), 2021, pp. 295-301, doi: 10.1109/CSCS52396.2021.00055. BDI Scopus, IEEE Xplore

Vis13. Nicolae Maximilian, **Pietraru Radu**, Barbu Andrei, Tivga Andrei "A CASE STUDY ON MIGRATING THE LAB ACTIVITIES ONLINE - STUDENTS' AND PROFESSORS' PERSPECTIVES" 2021 eLSE Volume 2 Pages: 341-348 DOI: 10.12753/2066-026X-21-111 BDI Scopus

Vis14. R. N. Pietraru, S. Andrei, M. Nicolae and D. M. Merezeanu, "A WiFi Sniffing Solution for Safe Return to Classes," 2021 12th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2021, pp. 1-5, doi: 10.1109/ATEE52255.2021.9425125. WOS:000676164800045

Vis15. Moalfă M., Olărescu Ș.M., **Pietraru R.N.**, Olteanu A.**,** Choose your own technical adventure: An increased engagement in the engineering classroom through presentations influenced by student decisions, 2020 eLearning and Software for Education Conference, pp. 597 - 602, DOI: 10.12753/2066-026X-20-164.BDI: Scopus.

Vis16. Bidila Timotei, **Pietraru Radu Nicolae**, Nicolae Maximilian, Dobrica Liliana, STUDENT'S TECHNICAL PROJECTS AS A TOOL FOR EDUCATION AND AWARENESS OF EMERGENCY SITUATIONS Proceedings of the 16th International Scientific Conference "eLearning and Software for Education" Bucharest, April 30 - May 1, 2020, Volume 2 | DOI: 10.12753/2066-026X-20-125 | Pages: 312-318 BDI Scopus

Vis17. Ionita, A.; Olteanu, A. **; Pietraru, R.**, Knowledge-based Education and Awareness about the Radiological and Nuclear Hazards, KEOD: Proceedings Of The 11th International Joint Conference On Knowledge Discovery, Knowledge Engineering And Knowledge Management - VOL 2: KEOD, Page 154-163, DOI10.5220/0008165301540163, Published 2019, ISBN978-989-758-382-7, WOS:00060490360001.

Vis18. Pascu, M.; **Pietraru, R.N.**; Olteanu, A.; Nicolae, M., A Very Practical Approach for System Engineering Curriculum, in The 15 th International Scientific Conference eLearning and Software for Education (else2019), Volume 1 | DOI: 10.12753/2066-026X-19-045 | Pages: 334-340, 2019, ISSN2066-026X, WOS:000473322400045.

Vis19. **Radu Nicolae Pietraru**, Luminita Gabriela Zegrea, Anca Daniela Ionita, "Publish-Subscribe Deployment Alternatives for Scenarios Related to University Laboratory Safety", 2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), DOI: 10.1109/ATEE.2019.8724923, WOS:000475904500080

Vis20. Andrei Stefan Duluta, Stefan Mocanu, Daniela Saru, **Radu Nicolae Pietraru**, Mihai Craciunescu, "Modern Techniques on Learning Strategies Supported by Data Mining Analysis", The 15th International Scientific Conference eLearning and Software for Education Bucharest, April 11-12, 2019, DOI: 10.12753/2066-026X-19-100, WOS:000473324400031

Vis21. Alexandru Mihai Vulcan, Maximilian Nicolaie, **Radu Nicolae Pietraru**, "Visual Tool for Learning GPU Programming", The 15th International Scientific Conference eLearning and Software for Education Bucharest, April 11-12, 2019, DOI: 10.12753/2066-026X-19-057 WOS:000473322400057

Vis22. **Radu Nicolae PIETRARU**, Maximilian NICOLAE, Magdalena ANGHEL, "Reengineering Learning Scenarios with Technologies based on Ubiquitous Computing", The 14th International Scientific Conference eLearning and Software for Education Bucharest, April 19-20, 2018, 10.12753/2066-026X-18-117, WOS:000467466800046

Vis23. **Radu Nicolae PIETRARU**, Alexandru-Stefan BANU, Stefan MOCANU, Daniela SARU, "Low Cost Technologies for Awareness and Early Warning in Conditions of Severe Weather", The 14th International Scientific Conference eLearning and Software for Education Bucharest, April 19-20, 2018 10.12753/2066-026X-18-118, WOS:000467466800047

Vis24. Ionita, A.D.; Olteanu, A.; **Pietraru, R.N.**; Prisecaru, I. C., Mapping E-Content To Domain Ontology For Education And Awareness Of Nuclear Hazards, INTED2017: 11th International Technology, Education And Development Conference, Spain, Pages: 8819-8824, Published: 2017, ISSN: 2340-1079, WOS:000427401303108.

Vis 25. Liliana Dobrica, **Radu Nicolae Pietraru**, "Experiencing Native Mobile Health Applications Development", May 2017, DOI10.1109/CSCS.2017.80, Conference: 2017 21st International Conference on Control Systems and Computer Science (CSCS) WOS:000449004400073 ISBN:978-1-5386-1839-4

Vis 26. Andrei Duluta, Stefan Mocanu, **Radu Nicolae Pietraru**, Daniel Merezeanu, Daniela Saru, "Secure Communication Method Based on Encryption and Steganography", May 2017, DOI10.1109/CSCS.2017.70, Conference: 2017 21st International Conference on Control Systems and Computer Science (CSCS) WOS:000449004400063 ISBN:978-1-5386-1839-4

Vis 27. Ionita, AD., Olteanu, A., **Pietraru, RN**, Reengineering Learning Scenarios With Web-Based Technologies, 12th International Scientific Conference on eLearning and Software for Education (eLSE), Page272-279, DOI10.12753/2066-026X-16-217, 2016, ISSN: 2066-026X, WOS:000385397100040.

Vis 28. Ionita, A. D.; Olteanu, A.; **Pietraru, R. N.**, Moraru, D.E., Budu, A., Prisecaru I.C. , Online Learning Content For Power Engineering Students, With Semantic-Based Navigability, in ICERI2016: 9th International Conference Of Education, Research And Innovation , Book Series: ICERI Proceedings, Pages: 2016, 1152-1157 , ISSN: 2340-1095, WOS:000417330201032.

Vis 29. Dobrică, L.; Ioniţă, A.; Pietraru, R.; **Olteanu, A.,** Managing Systems Complexity at Architectural Level, Proceedings of IFAC Workshop Supplementary Ways for Improving International Stability (SWIIS'09), 28-30 octombrie 2009, București, Romania, pag. 91-96., BDElsevier.

V. BREVETE DE INVENŢIE / INOVAŢII (B,A)

B - Brevete de invenţie.

A - Inovaţii şi alte creaţii.

VI. CONTRACTE ŞI RAPOARTE ŞTIINŢIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obtinute prin competitie, pe bază de contract/grant, in tara/strainatate (**Pn** – nationale, **Pi** - internationale).

Pn 1. Proiect ARUT 2023 „Detecția situațiilor de urgență utilizând inteligența artificială în contextul clădirilor inteligente”, contract nr. 26/09.10.2023, ID CRESCDI 220235417. octombrie 2023 - decembrie 2024 (director proiect).

Pn 2. Proiect specific ”Smart and sustainable buildings” din cadrul ”National Competence Center and solutions for the development of Climate Neutral and Smart Cities” Contractul de finanțare nr. 760007 / 30.12.2022, cod. 6/16.11.2022, 2023-2025

Pn 3. Sistem inteligent de evaluare și interpretare automată a comportamentului disimulat pentru personalul din infrastructuri critice – VISINT POC/222/1/3 Cod SMIS 2014+: 122226 2022-2023
Pn 4. CNFIS - FDI - Competitia 2022, Domeniul 5. Îmbunătățirea calității activității didactice, inclusiv a respectării deontologiei și eticii academice, Titlul proiectului: Îmbunătățirea calității activității didactice, inclusiv a respectării deontologiei și eticii academice, CNFIS-FDI-2022-0496.
Pn 5. CNFIS - FDI - Competitia 2021, Domeniul 5. Îmbunătățirea calității activității didactice, inclusiv a respectării deontologiei și eticii academice, Titlul proiectului: Îmbunătățirea managementului calității actului didactic în UPB prin mecanisme inovative de transformare digitală, FDI-2021-0256
Pn 6. PN-II-PT-PCCA-2014-4-0262, "Sistem de alertare timpurie si asistare computerizata a deciziilor, bazat pe evaluarea anticipativa a dinamicii rapide a vulnerabilitatilor induse de obiectivele nucleare" (N-WATCHDOG), Autoritatea contractanta: Unitatea Executiva pentru Finantarea Invatamantului Superior, a Cercetarii, Dezvoltarii si Inovarii (UEFISCDI), PN II UEFISCDI: 298 / 2014, 2014-2016
Pn 7. POSDRU ComHighTech „Creșterea competitivității întreprinderilor prin perfecționarea și specializarea resurselor umane în domeniul noilor tehnologii, într-o societate bazată pe cunoaștere și pentru o dezvoltare durabilă” - POSDRU 53084
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Semnatura:

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