

Instituția de învățământ superior:UTCN.....

Facultatea:Inginerie Electrică.....

Domeniul de licență:

Programul de studii de licență:.....

Perioada evaluării:

TABEL PRIVIND INDEPLINIREA INDICATORULUI

Activitatea științifică în domeniul disciplinelor

„Cadrele didactice titulare* au pregătirea inițială, sunt doctori / doctoranzi și cercetează în domeniul în care se includ disciplinele din postul ocupat.”

Nr. crt.	Gradul didactic, numele și prenumele titularului vârsta / vechimea în învățământul superior	Disciplinele din cadrul programului de studii incluse în postul didactic și tipul activității desfășurate (curs, seminar, lucrări, proiect)	Competența cadrului didactic titular în disciplinele din postul didactic			Constatări privind îndeplinirea indicatorului conform Anexei
			Universitatea/facultatea/specializarea absolvită	Specializarea la masterat/doctorat	Numărul de cărți, numărul de lucrări științifice, numărul de brevete în domeniul disciplinelor din postul didactic (conform Anexelor 4.1.)	
0	1	2	3	4	5	6
1.	Prof. dr. ing. habil. Radu Adrian Munteanu 49 / 24	Măsurări Electrice și Electronice, curs și laborator	Universitatea Tehnică din Cluj-Napoca / Facultatea de Electrotehnică / Electrotehnică Generală	Doctorat în Inginerie Electrică	Teza (A), 3 cărți (B1-B3); 47 lucrări indexate ISI/BDI (C1.1-1.6, C2.1-C2.10, C2.13-C2.15, C2.21-C2.22, C2.24-C2.30, C2.34-C2.41, C2.43, C2.46-C2.47, C2.49-C2.52, C2.55, C2.57-C2.59, C2.63, C2.65); 8 brevete de invenție (E1-E8)	Îndeplinit
		Calitate și Fiabilitate, curs			1 carte (B1); 15 lucrări indexate ISI/BDI (C1.4, C2.3-C2.4, C2.6-C2.7, C2.11, C2.16-C2.17, C2.19-C2.20, C2.23, C2.42, C2.44, C2.53, C2.60, C2.64); 5 brevete de invenție (E2, E3, E5, E7, E8))	
		Instrumentație Electronică, curs și laborator			Teza (A), 1 carte (B3); 45 lucrări indexate ISI/BDI (C1.1-1.6, C2.1-C2.10, C2.13-C2.15, C2.18, C2.21-C2.22, C2.24-C2.30, C2.36-C2.41, C2.43, C2.46-C2.52, C2.54, C2.55-C2.58, C2.61-C2.62, C2.65); 8 brevete de invenție (E1-E8)	
		Fiabilitatea Echipamentelor Medicale, curs			1 carte (B3); 17 lucrări indexate ISI/BDI (C1.2, C1.4, C2.3-C2.4, C2.6-C2.7, C2.11, C2.16-C2.20, C2.23, C2.42, C2.44, C2.48, C2.53, C2.64); 5 brevete de invenție (E2, E3, E5, E7, E8)	
		Managementul Calității în Ingineria Medicală, curs și proiect			6 lucrări indexate ISI/BDI (C1.2-1.3, C2.9, C2.12, C2.15, C2.48, C2.61-C2.62); 4 brevete de invenție (E2, E3, E7, E8)	
2						

--	--	--	--	--	--	--

* Din statul de funcții cumulativ al tuturor disciplinelor și tuturor activităților didactice desfășurate în cadrul programului de studii evaluat.

Rector

Persoana de contact

A N E X A 4 . 1

Nume Prenume: MUNTEANU Radu Adrian

Gradul didactic: Profesor

Instituția unde este titular: UTCN

Facultatea: Inginerie Electrică

Departamentul: Electrotehnică și Măsurări

L I S T A**lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

„Contribuții la dezvoltarea tehnicilor de detecție sincronă și aplicații”

conducător științific: Prof.dr.ing. Gheorghe Todoran, Universitatea Tehnică din Cluj-Napoca

Susținere publică: 17.05.2006.

B – Cărți și capitole în cărți publicate în ultimii 10 ani**CĂRȚI**

1. **Radu A. Munteanu**, Adrian Augustin Pop, Horia Bălan – *Tehnica Măsurării Mărimilor Electrice în Sisteme de protecție a Energiei Electrice: Lucrări de Laborator*, Editura Mediamira, Cluj-Napoca, 2014, ISBN 978-973-713-316-8, 73 pag.
2. Dan Iudean, **Radu Munteanu jr.**, Mircea Buzdugan, Eudor Flueraș, Alex Crețu - *Măsurări Electrice și Electronice: Îndrumător de Laborator*, Editura Mediamira, ISBN 978-973-713-338-0, 2016, 141 pag.
3. Rodica Holonec, **Radu Adrian Munteanu**, Romul Copîndean, Florin Drăgan - *Instrumentație Virtuală. Lucrări de laborator*, UTPRESS, ISBN 978-606-737-340-0, 2018, 140 pag.

CAPITOLE DE CARTE**C – Lucrări indexate ISI/BDI publicate în ultimii 10 ani****c1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)**

1. Gabriela Tonț, **Radu A. Munteanu**, Dan G. Tonț, Dan Iudean - *Aspects regarding the unidirectional two-port circuits implemented by means of electronic gyrators*, Advances in Electrical and Computer Engineering, Volume 16, Issue 1, 2016, Pages 87-92.
2. **Munteanu, RA** ; Banuleasa, S ; Rusu, A ; Butacu, DG - *Acquisition and Transmission of ECG Signals Through Stainless Steel Yarn Embroidered in Shirts*, ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, Volume: 20 Issue: 2 Pages: 73-78, DOI: 10.4316/AECE.2020.02009, Published: MAY 2020.
3. Druta, Roxana-Maria, David, Geanina-Maria), **Munteanu, Radu-Adrian**, Birgovan, Loredana-

Andreea), Clinci, Sorin-Dan - *WEEE Industry in the Context Of Circular Economy*, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Special Issue, Volume 64, Issue 4, Page 689-696, published December 2021, WOS:000740057300015.

4. Peladarinos, Nikolaos; Piromalis, Dimitrios; Cheimaras, Vasileios; Tserepas, Efthymios; **Munteanu, Radu Adrian**; Papageorgas, Panagiotis - *Enhancing Smart Agriculture by Implementing Digital Twins: A Comprehensive Review*, SENSORS, Volume 23, Issue 16, published August 2023, DOI: 10.3390/s23167128.
5. Daousis, Spyridon; Peladarinos, Nikolaos; Cheimaras, Vasileios; Papageorgas, Panagiotis; Piromalis, Dimitrios D.; **Munteanu, Radu Adrian** - *Overview of Protocols and Standards for Wireless Sensor Networks in Critical Infrastructures* - FUTURE INTERNET, Volume 16, Issue 1, published January 2024, DOI10.3390/fi16010033.
6. Cheimaras, Vasileios; Papagiakoumos, Spyridon; Peladarinos, Nikolaos; Trigkas, Athanasios; Papageorgas, Panagiotis; Piromalis, Dimitrios D.; **Munteanu, Radu A.**; *Low-Cost, Open-Source, Experimental Setup Communication Platform for Emergencies, Based on SD-WAN Technology* – TELECOM, Volume 5, Issue 2, Page 347-368, Published JUN 2024, DOI 10.3390/telecom5020018.

c2) Studii publicate la conferințe indexate în baze de date internaționale de referință în domeniul (DBLP, ACM, IEEE, SCOPUS, etc)¹

1. Trușcă, M., D. Petreuş, **R. A. Munteanu**, I. V. Sita, P. Dobra. - *Wireless low cost embedded solution for electrical motors control*, 5th European DSP Education and Research Conference (EDERC), 13-14 Septembrie 2012, Amsterdam, Netherlands, pp. 144-148. IEEE, 2012, ISBN 978-1-4673-4597-2, 978-1-4673-4595-8, WOS:000327183400031.
2. I. Cozorici, H. Bălan, **R. A. Munteanu**, P. Karaissas - *Software Applications for Wind Turbine Vibrations Analysis*, Advances in Condition Monitoring of Machinery in Non-Stationary Operations, Book Series: Lecture Notes in Mechanical Engineering, pages 689-699, DOI: 10.1007/978-3-642-39348-8_59, Publisher SPRINGER-VERLAG BERLIN, 2014.
3. Dobra, P., Dobra, M., Moga, D., Sita, V. I., **Munteanu, R. A.** - *Model Based Fault Detection for Electrical Drives with BLDC motor*, 2014 IEEE International Conference on Automation, Quality and Testing, Robotics (THETA), May 22-24, 2014, Cluj Napoca, Romania.
4. D. Iudean, **R. Munteanu jr.**, V. Zaharia, M. Dobra - *Reliability Indicators Analysis for the Cam Box Module of Industrial Knitting Machines*, 49th International Universities' Power Engineering Conference - UPEC2014, September 2nd to September 5th 2014, Cluj-Napoca, Romania, part number: CFP14569-CDR, ISBN: 978-1-4799-6556-4 INSPEC Accession Number: 14697813 Conference DOI:10.1109/UPEC.2014.6934833 Publisher: IEEE
5. Dulf, Eva Henrietta, Both, Roxana, **Munteanu, Radu A.**, Feștilă, Clement, Secară, Mihai - *Variable DC Power Sources for 13C Isotope Separation Column Boiler Supply*, 18th International Conference on System Theory, Control and Computing icstcc2014, October 17-19, 2014, Sinaia, Romania.
6. **Radu Adrian Munteanu**, Horia Bălan, Adrian Augustin Pop, Mircea Buzdugan - *Wavelet Analysis in Monitoring and Diagnosis of Power Circuit Breakers*, Proceedings of the 2014 International Conference on Applied and Theoretical Electricity – ICATE, October 23-25, 2014, Craiova, Romania, IEEE Catalog No. CFP1499S-USB, ISBN: 978-1-4799-4162-9.
7. Horia Bălan, Adrian Augustin Pop, Mircea Buzdugan, **Radu Adrian Munteanu** - *Performances Optimization and Characteristics of the Voltage Generated by Multilevel Inverters*, Proceedings of the 2014 International Conference on Applied and Theoretical Electricity – ICATE, October 23-25, 2014, Craiova, Romania, IEEE Catalog No. CFP1499S-USB, ISBN: 978-1-4799-4162-9.
8. Moga Daniel, Stroia Nicoleta, Petreuş Dorin, Moga Rozica, **Munteanu Radu Adrian** - *Embedded Platform for Web-based Monitoring and Control of a Smart Home*, 2015 IEEE 15TH INTERNATIONAL CONFERENCE ON ENVIRONMENT AND ELECTRICAL ENGINEERING

¹ indexate în:

[IEEE] - IEEE Xplore (<http://ieeexplore.ieee.org/Xplore/guesthome.jsp>)

[ACM] - ACM portal (<http://portal.acm.org>)

[DBLP] - (<http://www.informatik.uni-trier.de>)

[SCOPUS] - (<http://www.scopus.com>)

(IEEE EEEIC 2015), Rome, ITALY, JUN 10-13, 2015, Pages: 1256-1261.

9. **Munteanu R., Jr.**, Vulea A. R., Iudean D., Copîndean R. - *Carbon Monoxide Pollution Map in the Center of Cluj-Napoca City*, 13th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, ROMANIA, JUN 11-12, 2015, ISBN:978-1-4799-7650-8.
10. **Munteanu R., Jr.**, Iudean D., Mureșan C., Petean V. - *Access System in Restricted Areas Based on Programmable Logic Controller and GSM Modem*, 13th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, ROMANIA, JUN 11-12, 2015, ISBN:978-1-4799-7650-8.
11. Dan Iudean, **Radu Munteanu Jr.**, Florentina-Ancuta Cadar, Petru-Marius Maier, Alexandru Bogdan Amza - *Reliability calculus for an experimental device performing quantitative analysis of alcohol vapors from exhaled air*, IEEE E-Health and Bioengineering Conference (EHB), 2015.
12. Dorca, Vasile; Popescu, Sorin; **Munteanu Jr, Radu**; Chioreanu Adrian; Peleskei, Claudius - *Agile Approach with Kanban in Information Security Risk Management*, PROCEEDING OF 2016 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR), ISBN:978-1-4673-8690-6, ISSN: 1844-7872, Cluj Napoca, ROMANIA, Date: MAY 19-21, 2016pages: 19-24.
13. Balan, Horia; Buzdugan, Mircea I.; Varodi, Traian; **Munteanu, Radu Adrian** - *Monitoring power breakers using vibro acoustic techniques*, 2016 INTERNATIONAL CONFERENCE ON APPLIED AND THEORETICAL ELECTRICITY (ICATE), ISBN:978-1-4673-8562-6 ISSN: 2376-4163, International Conference on Applied and Theoretical Electricity (ICATE), Location: Craiova, ROMANIA, Date: OCT 06-08, 2016.
14. Octavian Melinte, Luige Vladareanu, **Radu A. Munteanu**, Hongnian Yu - *Haptic Interfaces for Compensating Dynamics of Rescue Walking Robots*, Procedia Computer Science, Volume 65, 2015, Pages 218–224, ISSN: 1877-0509, International Conference on Communications, Management, and Information Technology (ICCMIT'2015), Location: Prague, CZECH REPUBLIC, Date: APR 20-22, 2015.
15. Banuleasa, Sabin; **Munteanu, Radu, Jr.**; Rusu, Alexandru; Tont, Gabriela - *IoT System for Monitoring Vital Signs of Elderly Population*, PROCEEDINGS OF THE 2016 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2016), ISBN:978-1-5090-6128-0 ISSN: 2471-6855, Pages: 59-64, 9th International Conference and Exposition on Electrical and Power Engineering (EPE), Location: Iasi, ROMANIA, Date: OCT 20-22, 2016.
16. Cretu, Alexandru, **Munteanu, Radu, Jr.**, Iudean, Dan, Vladareanu, Victor, Festila, Clement - *Markov Analysis of an Induction Motor*, PROCEEDING OF 2016 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR), ISBN:978-1-4673-8690-6, ISSN: 1844-7872, Cluj Napoca, ROMANIA, Date: MAY 19-21, 2016, pages 13-18.
17. Cretu, Alexandru, **Munteanu, Radu, Jr.**, Iudean, Dan, Vladareanu, Victor, Karaisas, Petros - *Reliability Assessment of Linear Generator Type Wave Energy Converters*, 2016 INTERNATIONAL CONFERENCE ON APPLIED AND THEORETICAL ELECTRICITY (ICATE), ISBN:978-1-4673-8562-6 ISSN: 2376-4163, International Conference on Applied and Theoretical Electricity (ICATE), Location: Craiova, ROMANIA, Date: OCT 06-08, 2016.
18. Iudean, D. ; **Munteanu, R., Jr.**; Bindea, E. M.; Muresanu, D. F.; Selejan, O. - *Low Cost Prototype for Viewing a Map of Vascularization*, INTERNATIONAL CONFERENCE ON ADVANCEMENTS OF MEDICINE AND HEALTH CARE THROUGH TECHNOLOGY, MEDITECH 2016, Book Series: IFMBE Proceedings, Volume: 59 Pages: 89-94, DOI: 10.1007/978-3-319-52875-5_20, Published: 2017
19. Balc, Claudiu; Cretu, Alexandru; **Munteanu, Radu, Jr.**; Iudean, Dan; Balan, Horia; Karaisas, Petros - *Reliability Modeling for an Automatic Level Control System*, 2017 INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT (OPTIM) & 2017 INTL AEGEAN CONFERENCE ON ELECTRICAL MACHINES AND POWER ELECTRONICS (ACEMP), Book Group Author(s):IEEE, Pages: 995-1000, Published: 2017
20. Tont, Gabriela ; Gordan, Ioan Mircea ; Spoiala, Viorica ; Barabas, Tiberiu ; Hathazi, Francisc Ioan ; Tont, Dan George ; **Munteanu, Radu, Jr.** - *An Explicit Hierarchical Dynamic Reliability Approach for Heterogeneous Systems*, 2017 14TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES), Book Group Author(s):IEEE, Pages: 188-191, Published: 2017
21. Copindean, R.; **Munteanu, R., Jr.**; Maier, M.; Dragan, F.; Iudean, D. - *Considerations Regarding the*

Determination of Active and Reactive Power in Three-Phase Circuits using Hilbert Dephasing Operator, 2017 7TH INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS), Book Group Author(s):IEEE, Published: 2017

22. Balan, Horia ; Buzdugan, Mircea Ion; **Munteanu, Radu A.** - Modeling and Simulation of DC Resonant Circuit Breakers, 2017 5TH INTERNATIONAL SYMPOSIUM ON ELECTRICAL AND ELECTRONICS ENGINEERING (ISEEE), Book Group Author(s):IEEE, Book Series: International Symposium on Electrical and Electronics Engineering, Published: 2017
23. Balc, Claudiu ; Cretu, Alexandru; Iudean, Dan; Laslo, Horatiu; Enyedi, Szilard; **Munteanu, Radu, Jr.** - Failure Modes and Effects Analysis for an Automatic Level Control System, 2018 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR), Book Series: IEEE International Conference on Automation Quality and Testing Robotics, Published: 2018
24. Buzdugan, Mircea-Ion, **Munteanu, Radu A.** - Influence of Harmonics on Heat Recovery Equipment, International Conference on Applied and Theoretical Electricity (ICATE), Book Group Author(s):IEEE, Book Series: International Conference on Applied and Theoretical Electricity, Published: 2018, Craiova, ROMANIA, OCT 04-06, 2018.
25. Florina Leach, **R. A. Munteanu**, I. Vadan, D. Căpățână - *Didactic Platform for the Study of Hybrid Wind-Hydro Power Plants*, The 8th International Symposium on Advanced Electromechanical Motion Systems ELECTROMOTION, Lille, Franța, 1-3 Iulie 2009, OS 12, 6 pagini, ISBN 978-2-915913-25-5. – IEEE Xplore, ISI: http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=W2@LffBJNb37nP1BoEf&page=1&doc=1&colname=WOS
26. Radu Duma, Petru Dobra, Dorin Petreuş, Ioan Valentin Sita, **Radu Adrian Munteanu** – *Real-time BLDC motor control using the Stellaris LM3S8962 microcontroller*, Proceedings of European DSP Education & Research Conference EDERC 2010, 1-2nd December 2010, Nice, France, pp. 57-61, Texas Instruments SSYW021, ISBN 978-0-9552047-5-3.
27. Cozorici, Florina; Vadan, Ioan; **Munteanu, Radu A.**; Cozorici, Ioan; Karaissas, Petros - *Design and simulation of a small wind-hydro power plant*, International Conference on Clean Electrical Power (ICCEP) 2011, Ischia, Italy, E-ISBN: 978-1-4244-8928-2, Print ISBN: 978-1-4244-8929-9, 14-16 June 2011, pp. 308 – 311.
28. H. Balan, M. I. Buzdugan, A. Botezan, **R. A. Munteanu**, P. Karaissas, C. Psomopoulos - *Testing Wind Variable Speed Driving Systems for Conducted Interferences*, International Symposium on Power Electronics, Electrical Drives, Automation and Motion Speedam 2012, ISBN 978-1-4673-1299-8, 20-22 June 2012, Sorrento, Italy, paper ID EPQ 0285, pp. 565-570.
29. Horia Bălan, Mircea Buzdugan, **Radu Adrian Munteanu**, Nicoleta Șarlea – *Signal Processing Techniques for Monitoring the Vibrations generated by Wind Turbines*, ELECTROMOTION, vol. 20, number 1-4, 2013, ISSN 1223-057X, pp. 209-214.
30. **R. Munteanu jr.**, C. Mureșan, D. Iudean, M. Munteanu and B. Amza - *Didactic Application for Monitoring Biomedical Parameters and Data Transfer over the Network Using Virtual Instrumentation*, International Conference on Advancements of Medicine and Health Care through Technology MEDITECH, 5th – 7th June 2014, Cluj-Napoca, România, IFMBE 44, ISBN 978-3-319-07653-9, p. 87 ff.
31. D. Iudean, **R.A. Munteanu**, P. Bechet, C. Mureșan and M. Crețu- *Reliability Indicators and a Failure Mode and Effect Analysis Calculation for a Holter Recorder*, International Conference on Advancements of Medicine and Health Care through Technology MEDITECH, 5th – 7th June 2014, Cluj-Napoca, România, IFMBE 44, ISBN 978-3-319-07653-9, p. 113 ff.
32. V.D. Zaharia, S. Crișan, B. Țebrean, V.T. Popa and **R.A. Munteanu** - *Sensorial System for Visually Impaired Individuals*, International Conference on Advancements of Medicine and Health Care through Technology MEDITECH, 5th – 7th June 2014, Cluj-Napoca, România, IFMBE 44, ISBN 978-3-319-07653-9, p. 173 ff.
33. M. Munteanu, P. Bechet, C. Rusu, D.D. Micu, **R.A. Munteanu**, R. Moga and C. Amza - *Application of Virtual Instrumentation for Transmitting and Processing ECG Signals*, International Conference on Advancements of Medicine and Health Care through Technology MEDITECH, 5th – 7th June 2014, Cluj-Napoca, România, IFMBE Proceedings, vol. 44, ISBN 978-3-319-07653-9, p. 215 ff.

34. A.R. Vulea, D. Iudean, **R.A. Munteanu**, C. Muresan, R. Copîndean - *Carbon Monoxide Levels in a Medium Size European City*, 6th International Conference on Modern Power Systems MPS Cluj-Napoca, Romania, 2015.
35. O. Melinte, L. Vlădăreanu, **R.A. Munteanu**, H. Wang, F. Smarandache, M. Ali - NAO Robot in Virtual Environment Applied on VIPRO Platform, *Acta Electrotehnica*, vol. 57, no. 1-2, 2016, Special Issue of SISOM 2016
36. L. Vlădăreanu, D. Mitroi, R.I. Munteanu, O. Melinte, S. Chang, H. Yu, H. Wang, V. Vlădăreanu, **R.A. Munteanu**, Z.G. Hou, X. Wang, G. Bia, Y. Feng, E. Albu - Improved Performance of Haptic Robot Through the VIPRO Platform, *Acta Electrotehnica*, vol. 57, no. 1-2, 2016, Special Issue of SISOM 2016
37. Banuleasa, S., **Munteanu, R.**, Rusu, A., Iudean, D., Mihnea, A. - Characterisation of transmission of digital signals through stainless steel conductive thread embroidered in T-shirts, 22nd IMEKO TC4 International Symposium and 20th International Workshop on ADC Modelling and Testing 2017: Supporting World Development Through Electrical and Electronic Measurements, 2017-September, pp. 373-379
38. Ilies, I., Munteanu, M., **Munteanu, R.A.** - "Intelligent" controller algorithm for load distribution enhancement of IEEE 802.11 INTER-WLAN traffic, 22nd IMEKO TC4 International Symposium and 20th International Workshop on ADC Modelling and Testing 2017: Supporting World Development Through Electrical and Electronic Measurements, 2017-September, pp. 524-527
39. Ilies, I., **Munteanu, R.A.**, Munteanu, M. - IEEE 802.11 Intra-WLAN load balancing algorithm for network performance improvement, 22nd IMEKO TC4 International Symposium and 20th International Workshop on ADC Modelling and Testing 2017: Supporting World Development Through Electrical and Electronic Measurements, 2017-September, pp. 521-523
40. Copindean, R., **Munteanu, R.**, Maier, M., Dragan, F., Iudean, D. - Considerations regarding the determination of active and reactive power in three-phase circuits using Hilbert dephasing operator, *Proceedings - 2017 International Conference on Modern Power Systems, MPS 2017*, 7974452
41. Buzdugan, Mircea-Ion; **Munteanu, Radu A.** - Influence of Harmonics on Heat Recovery Equipment, *International Conference on Applied and Theoretical Electricity (ICATE)* Location: Craiova, ROMANIA Date: OCT 04-06, 2018
42. Balci, Claudiu; Cretu, Alexandru; Iudean, Dan, Laslo, Horatiu, Enyedi, Szilard, **Munteanu, Radu, Jr.** - Failure Modes and Effects Analysis for an Automatic Level Control System, 21st IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR THETA) Location: Cluj Napoca, ROMANIA Date: MAY 24-26, 2018
43. I.A. Gal, L. Vlădăreanu, R. A. Munteanu, O. Melinte, Y. Feng, M. Pandealea - 3D Simulation of a Mechanical Structure for Induction Hardening using Unity3D, *Acta Electrotehnica*, vol. 59, number 1-2, 2018, pp. 33-38, ISSN: 2344-5637, ISSN-L: 1841-3323.
44. Iudean, D., Cretu, A., **Munteanu, R.**, Moga, D., Vladareanu, L. - Reliability approach of a compressor system using reliability block diagrams, *International Journal of Advanced Trends in Computer Science and Engineering*, 8(1), pp. 133-138, 2019
45. Lodin, A., Moga, D., Stroia, N., **Munteanu, R.A.**, Vladareanu, L. - Modelling and simulation of a remote controlled mechatronic device, *Periodicals of Engineering and Natural Sciences*, 7(1), pp. 255-260, 2019
46. Bolba, M., **Munteanu, R.A.**, Iudean, D., Crețu, A. - Analysis of the wholesale energy market price in Romania and its impact on the end customer, *Proceedings of 2019 8th International Conference on Modern Power Systems, MPS 2019*, 8759795
47. Blidar, O.C., **Munteanu, R.A.**, Iudean, D., Ruba, M., Nistor, G. - Simulation of a Boost Converter for the Automotive Industry, *Proceedings of 2019 8th International Conference on Modern Power Systems, MPS 2019*, 8759668
48. Iudean, D ; Laze, P ; **Munteanu, R jr.**; Munteanu, M ; Mercea, V- Pilot-Study of a Low-Cost Iontophoresis Device, 2019 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB), Book Group Author(s):IEEE, Conference: 7th E-Health and Bioengineering Conference (EHB), Location: Grigore T Popa Univ Med & Pharmacy, Iasi, ROMANIA, Date: NOV 21-23, 2019
49. M. Munteanu, L. Czumbil, **R. Munteanu jr.**, S. Nemeti - Investigation of a Segment of Via Praetoria from Potaissa Camp by Measuring the Soil Electrical Resistivity, *Acta Electrotehnica*, vol. 61, number 3, 2020, pp. 233-236, ISSN: 2344-5637, ISSN-L: 1841-3323.

50. L. Czumbil ,M. Munteanu ,D.D. Micu, **R. Munteanu jr.**, S. Nemeti - Soil Resistivity Measurement and Investigation to Determine Underground Ancient Roman Road Right-of-Way, *Acta Electrotehnica*, vol. 61, number 3, 2020, pp. 237-241, ISSN: 2344-5637, ISSN-L: 1841-3323.
51. Raul Nemeş, Mircea Ruba, Claudia Steluta Martis, **Radu A. Munteanu** - Sensorless Field-Oriented Control MRAS Based of Interior Permanent Magnet Synchronous Motor with MTPA, *Acta Electrotehnica*, vol. 61, number 4, 2020, pp. 279-283, ISSN: 2344-5637, ISSN-L: 1841-3323.
52. Sorina Ciornei, Raul Nemes, Sebastian Ciceo, Mircea Ruba, **Radu A. Munteanu**, Claudia Steluta Martis - Parameters Identification using Experimental Measurements for Equivalent Circuit Ultracapacitor Model, *Acta Electrotehnica*, vol. 61, number 4, 2020, pp. 294-297, ISSN: 2344-5637, ISSN-L: 1841-3323.
53. Dan Iudean, **Radu Munteanu Jr.**, Bianca Macovei, Andrei Cimpoes, Alexandru Cretu - Determining the Reliability Indicators of a Gas Sensor, *Acta Electrotehnica*, vol. 61, number 4, 2020, pp. 284-288, ISSN: 2344-5637, ISSN-L: 1841-3323.
54. Sabin Bănuleasa, **Radu Munteanu Jr.**, Alexandru Rusu, Claudiu Bâlc - Wearable IoT EKG Signal Data Synchronization via UDP, *Acta Electrotehnica*, vol. 61, number 4, 2020, pp. 271-274, ISSN: 2344-5637, ISSN-L: 1841-3323.
55. **Radu A. Munteanu**, Dan Iudean, Ovidiu-Catalin Blidar, Claudiu Balc, Leon Brai - Study of Coils Impact For a Boost Converter Used in the Automotive Industry, *International Conference and Exposition on Electrical And Power Engineering (EPE)*, Iaşi, 2020
56. Sabin Bănuleasa, **Radu Munteanu jr.**, Alexandru Rusu - Wearable IoT power consumption optimization algorithm, *EPE 2020 Iaşi, Proceedings of the 2020 11th International Conference and Exposition on Electrical And Power Engineering*, 2020, pp. 429–433, 9305609
57. Blidar Ovidiu-Catalin, **Radu A. Munteanu**, Brai Leon, Dan Iudean, Risteiu Alexandru, Popa Paul - Modeling and Simulation of a Compensation PCB for Oscilloscope Probes, *16th International Conference on Engineering of Modern Electric Systems (EMES)*, Oradea, 2021
58. Brai Leon, Bolchiş Mihai, Blidar Ovidiu-Catalin, Balan Radu, **Radu A. Munteanu** - Active Filtering in Beamforming Circuit: Design, Calculation and Simulation, *16th International Conference on Engineering of Modern Electric Systems (EMES)*, Oradea, 2021
59. Marius Bolba, **Radu A. Munteanu**, Dan Iudean, Andrei Ceclan - Complete liberalization of the energy market a challenge for the household consumer, *9th International Conference on Modern Power Systems (MPS)*, Cluj-Napoca, 2021, 9492695
60. D. Iudean, A. G. Mihiu, R. A. Munteanu - Reliability Analysis through Block Diagram for a Hybrid Lighting System, *Proceedings of 2021 9th International Conference on Modern Power Systems, MPS 2021*, Cluj-Napoca, 9492537
61. Dulf, Evelin-H; Berciu, Alexandru-G; **Munteanu, Radu A.**; Kovacs, Levente - Advantages of Prefilters in Stroke Diagnosis from EEG Signals, *9th IEEE International Conference on e-Health and Bioengineering (EHB)*, Iaşi, NOV 18-19, 2021, DOI 10.1109/EHB52898.2021.9657718
62. Stancioi, Cristina-Maria; **Munteanu, Radu Adrian**; Muresan, Vlad; Clitan, Iulia; Bunta, Olimpia - System for Detecting the Position of a Tooth in Relation to a Fixed Reference, *9th IEEE International Conference on e-Health and Bioengineering (EHB)*, Iaşi, NOV 18-19, 2021, DOI 10.1109/EHB52898.2021.9657750
63. Druta, Roxana-Maria); David, Geanina-Maria); **Munteanu, Radu-Adrian**; Birgovan, Loredana-Andreea); Clinici, Sorin-Dan - Weee Industry in The Context of Circular Economy, *ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING*, Volume 64, Issue 4, Page 689-696, Special Issue SI, Published DEC 2021
64. Dan Iudean; Adina Georgiana Mihiu; Valentin Ioan Farcaş; **Radu Munteanu** - Reliability, Unreliability and Failure Rate of a Hybrid Lighting System, *2022 International Conference and Exposition on Electrical And Power Engineering (EPE)*, Iaşi 20-22 October 2022, DOI 10.1109/EPE56121.2022.9959748
65. Crisan, Titus E., Ardelean, Madalin I.; Tebrean, Bogdan; **Munteanu, Radu A.** - Hand Movements Monitoring Device for Post Paresis Recovery Process, **IFMBE Proceedings** Volume 88, Pages 45 – 54, *2022 7th International Conference on Advancements of Medicine and Health Care through Technology, MEDITECH 2020Virtual*, Online 13 October 15th, 2020, Code 270419

D – Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E – Brevete obținute pentru întreaga activitate

1. Brevet de invenție OSIM nr. 122380/30.04.2009: **Metodă și dispozitiv de măsurare a vitezei de rotație în medii puternic perturbante.** Autori: Luige Vlădăreanu, Lucian Marius Velea, Radu Ioan Munteanu, Daniel Moga, **Radu Adrian Munteanu.**
2. Brevet de invenție OSIM nr. 122986/28.05.2010: **Circuit de cuplaj fără contact.** Autori: Radu Ioan Munteanu, Daniel Moga, **Radu Adrian Munteanu,** Mihai Stelian Munteanu.
3. Brevet de invenție OSIM nr. 122976/28.05.2010: **Sistem și procedeu pentru măsurarea indirectă a masei obiectelor aflate în mișcare.** Autori: Radu Ioan Munteanu, Daniel Moga, **Radu Adrian Munteanu,** Mihai Stelian Munteanu.
4. Brevet de invenție OSIM nr. 123490: **Sistem fără fir pentru telemăsurarea înclinației.** Autori: Radu Munteanu, Daniel Moga, Dumitru Mircea Ivan, Petru Dobra, **Radu Adrian Munteanu,** Rozica Gabriela Moga, Lucian Marius Velea.
5. Brevet de invenție OSIM nr. 125970/29.03.2019: **Metodă și dispozitiv pentru controlul dinamic al unui robot pășitor.** Autori: Luige Vlădăreanu, Lucian Marius Velea, **Radu Adrian Munteanu,** Tudor Sireteanu, Mihai Stelian Munteanu, Gabriela Tonț, Victor Vlădăreanu, Cornel Balaș, Dan George Tonț, Daniel Octavian Melinte, Ionel Gal Alexandru.
6. Brevet de invenție OSIM nr. 128666/29.11.2018: **Traductor electronic analogic pentru măsurarea puterii în curent continuu.** Autori: **Radu Adrian Munteanu,** Eva Henrietta Dulf, Clement Feștilă, Radu Munteanu, Gheorghe Ion Todoran.
7. Brevet de invenție OSIM nr. 126268/30.09.2019: **Dispozitiv de acționare și control al roboților mobili inerțiali.** Autori: Radu Ioan Munteanu, Luige Vlădăreanu, Ovidiu Ilie Sandru, Lucian Marius Velea, Hongnian Yu, Nikos Mastorakis, Gabriela Tonț, Eugen Diaconescu, **Radu Adrian Munteanu,** Victor Vlădăreanu, Alexandra Sandru.
8. Brevet de invenție OSIM nr.128910/30.09.2020: **Metodă și dispozitiv pentru control extins hibrid forță-poziție al sistemelor robotice și mecatronice.** Autori: Luige Vlădăreanu, Radu Ioan Munteanu, Chunyan Yan, Victor Vlădăreanu, **Radu Adrian Munteanu,** Weihua Li, Florentin Smarandache, Ionel Alexandru Gal.
9. Brevet de invenție OSIM nr.131524/30.05.2023: **Metodă și Dispozitiv pentru Dezvoltarea în Mediul Realității Virtuale a Interfețelor de Control Sisteme Mecatronice.** Autori: VLADAREANU Luige; MUNTEANU Radu Ioan; SIRETEANU Tudor; ALBU Eugen; VLADAREANU Victor; **MUNTEANU Radu Adrian;** CONONOVICI Boris Sergiu; ILIESCU Mihaiela; MELINTE Octavian; GAL Ionel Alexandru; MITROI Daniel Marian; CHENARU Oana.

Data decembrie 2024

Semnătura