

Universitatea Tehnică din Cluj-Napoca
 Facultatea de Electronică, Telecomunicații și Tehnologia Informației
 Departamentul de Electronică Aplicată
 Conf.dr.ing. Holonec Rodica

LISTA

lucrărilor științifice în domeniul disciplinelor din postul didactic

A – Teza de doctorat

„Contribuții la dezvoltarea aparaturii de măsurare în tehnica virtuală și aplicații”
 Conducător științific : Prof.dr.ing Radu Munteanu
 Domeniul: *Inginerie electrica*
 Universitatea Tehnică din Cluj-Napoca
 Susținere publică: 1999

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

CĂRȚI

1. **Rodica Holonec**, B. Tebrean, I.G. Tarnovan, Gh. Todoran, *Electronic Measurements: Laboratory Manual* Editura U.T. PRESS, Cluj-Napoca 2010, ISBN.978-973-662-600-5
2. **Rodica Holonec**, Radu Adrian Munteanu, Romul Copîndean, Florin Drăgan, *Instrumentație virtuală: lucrări de laborator*, UT Press Cluj-Napoca, 2018, ISBN 978-606-737-340-0, p 138
3. Copîndean R., **Holonec Rodica**, Drăgan F., *Automate programabile. Modalități de programare și aplicații*, UT Press Cluj-Napoca, 2010, ISBN 978-973-662-600-5, p 120
4. Romul Copîndean, **Rodica Holonec**, Florin Drăgan, Călin Mureșan, *Automate programabile: suport de curs /* , Cluj-Napoca: U.T. Press, 2023

CAPITOLE DE CARTE

1. Horea Demea, Sorina Demea, **Rodica Holonec**, *Corneal Viscoelastical Properties Related to Glaucoma*, chapter in „*Glaucoma – Basic and Clinical Concepts*”, book, Intech 2011, ISBN 978-953-307-591-4., pp 255-270

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. H. Demea, Sorina Demea, **Rodica Holonec**, Anca Demea *The biophysical properties of cornea in analyzing glaucoma risk*, Romanian Reports in Physics, Volume 67, Number 3, 2015, pp 987-994, [WOS]
2. Laszlo Rapolti, **Holonec Rodica**, Laura Grindei, Marius Purcar, Florin Dragan, Romul Copîndean, Robert Reman, *Experimental stand for sorting components dismantled from printed circuit boards*, 2021/11/20, Journal Minerals, Volume 11, Issue, 11, Pages, 1292, MDPI, [WOS]

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

3. H. Demea , S. Demea , **R. Holonec**, and G. Lupu, *Glaucoma Risk – Correlations between Measurements from Optical Coherence Tomography and Ocular Response Analyzer* International Conference on Advancements of Medicine and Health Care through Technology; 5th – 7th June 2014, Cluj-Napoca, Romania, IFMBE Proceedings, Volume 44, 2014, pp 63-66, Publisher: Springer-Verlag Berlin, [**Google Scholar**], [**Scopus**]
4. Simona Vlad, Sorina Demea, Horea Demea, **Rodica Holonec**, *Neural Network Classifier for Glaucoma Diagnosis*, International Conference on e-Health and Bioengineering, EHB 2015, 19-21 November 2015, Iasi, Romania, [**Scopus**]
5. Maniu, A., Chiș, G.S. Harabagiu, O.E., **Holonec, R.** Roman, A.I., *The impact of dizziness in life's quality of elderly patients with vestibular disorders and their caregivers* IFMBE Proceedings, Volume 59, 2017, Pages 317-322, The 5th International Conference on Advancements of Medicine and Health Care through Technology, MEDITECH 2016; Cluj-Napoca; Romania; 12 October 2016 through 15 October 2016, [**Scopus**]
6. **Holonec, Rodica**, Copindean, Romul, Dragan, Florin Ioan, Rapolti Laszlo, *Measurements on a DC motor using imaging and virtual instrumentation techniques*, 22nd IMEKO TC4 International Symposium and 20th International Workshop on ADC Modelling and Testing 2017, [**Scopus**]
7. **Holonec, Rodica**, Copindean, Romul, Dragan, Florin Ioan, Todoran, Gheorghe Ioan, *Localization of symmetrical components in Fourier discrete space using Hilbert Transform*, International Conference on Modern Power Systems (MPS), Editor IEEE, 2017, [**IEEE**]
8. Rapolti Laszlo, **Rodica Holonec**, Romul Copindean, Florin Dragan, *Sorting System for e-Waste Recycling using Contour Vision Sensors*, 2019 8th International Conference on Modern Power Systems (MPS), pages 1-4, Editor IEEE, 2019, [**IEEE**]
9. Gheorghe Todoran, **Rodica Holonec**, Romul Copindean, Florin Dragan *New Modalities in Performing the “abc-” and “-abc” Coordinates Conversion using Hilbert Transform*, 2019 8th International Conference on Modern Power Systems (MPS), pages 1-6, Editor IEEE, 2019, [**IEEE**]
10. Florin Drăgan, **Rodica Holonec**, Romul Copindean, *Local Monitoring/Recording and Display Device for Power Electricity Meter, using IEC 62056–21 Local AMR application device, hardware solution, for DLMS-COSEM based Power Meters*, 2019 8th International Conference on Modern Power Systems (MPS), pages 1-6, Editor IEEE, 2019 [**IEEE**]
11. **Rodica Holonec**, L Grindei, M Purcar, R Copindean, F Dragan, *Techniques for Sorting Components from Dismembered Medical PCBs*, 2019, in Book-6th International Conference on Advancements of Medicine and Health Care through Technology; 17–20 October 2018, Cluj-Napoca, Romania, pp 59-64, Editor Springer, Singapore [**Scopus**]
12. **Rodica Holonec**, S Vlad, L Rapolti, *Application for Detection of Epileptic Seizures*,

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>)

- 2019, in Book-6th International Conference on Advancements of Medicine and Health Care through Technology; 17–20 October 2018, Cluj-Napoca, Romania, pp 91-96, Editor Springer, Singapore, [Scopus]
13. R Copîndean, **R Holonec**, F Dragan, C Muresan, *Method for Body Impedance Measurement*, 2019, in Book-6th International Conference on Advancements of Medicine and Health Care through Technology; 17–20 October 2018, Cluj-Napoca, Romania, pp 79-83, Editor Springer, Singapore [Scopus]
 14. **R Holonec**, S Vlad, AI Roman, L Rápolti, *Monitoring of Obstructive Sleep Apnea Using Virtual Instrumentation Techniques*, 2019, in Book-6th International Conference on Advancements of Medicine and Health Care through Technology; 17–20 October 2018, Cluj-Napoca, Romania, pp 85-90, Editor Springer, Singapore [Scopus]
 15. L Grindei, C Constantinescu, A Bojita, **R Holonec**, L Rapolti, *Project-oriented approach in teaching programming to the first year undergraduate students in Electrical Engineering*, 2023 10th International Conference on Modern Power Systems (MPS), [IEEE]
 16. L Rapolti, **R Holonec**, C Munteanu, R Reman, M Ardelean, *Low-cost Laboratory Scanner Unit: Design and Testing for Hyperspectral Imaging System*, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Pages 213-217, [IEEE]
 17. Robert Reman, Laszlo Rapolti, Madalin Ardelean, **Rodica Holonec**, Calin Munteanu, Vasile Topa, A Hardware Optimized Storage and Retrieval System for Smart Warehousing Applications, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Pages 259-263, [IEEE]
 18. Grindei Laura, Purcar Marius, Constantinescu Claudia, **Holonec Rodica**, Rapolti Laszlo, *Research and innovation project based on recovery of the components and materials from IT and telecommunication waste*, 2021 30th Annual Conference of the European Association for Education in Electrical and Information Engineering (EAEEIE), Pages 1-5, [IEEE]
 19. Nicoleta Pop, Anca Demea, Bogdan Gherman, Doina Pisla, **Rodica Holonec**, *Virtual instrument used for the evaluation of extraocular motility*, 2019 E-Health and Bioengineering Conference (EHB), Pages 1-4, [IEEE]
 20. **Rodica Holonec**, Laura Grindei; László Rápolti, A Comprehensive Investigation of Volleyball Movements Using Electromyography and Visual Tracking Techniques, 2024 E-Health and Bioengineering Conference (EHB), Iasi, 14-15 Nov. 2024, Pages 1-4, [IEEE]

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

1. Florin DRĂGAN, Rodica HOLONEC, Romul COPÎNDEAN, Data Acquisition System with TFT Graphic Interface. Acta Electrotehnica, volume 55, no1-2 2014. ISSN 2344-5637, pp.94-97, [Google Scholar], [EBSCO]
2. Copîndean, **Rodica Holonec**, E. Flueraș, *PLC-Based Battery Analyser*, Acta Electrotehnica, nr.3, vol.55, Cluj-Napoca, 2014, , ISSN 1841-3323, [Google Scholar], [EBSCO]
3. **Holonec, R.**; Copandean, R.; Dragan, F.; Zaharia, V. D.; *Object Tracking System using Stereo Vision and LabVIEW Algorithms*, ACTA Electrotehnica, volum 55, nr 1-2, 2014, ISSN 2344 – 5637, pp 77-80, [Google Scholar], [EBSCO]
4. R. Copîndean, **Rodica Holonec**, F. Dragan, *Audio Mixer Ordered Microcontroller*,

- Acta Electrotehnica, nr.5, vol.56, pp 221-224, Cluj-Napoca, 2015, ISSN 1841-3323, [Google Scholar], [EBSCO]
5. Florin Dragan, **Rodica Holonec**, Romul Copindean, *Microcontrollers Cluster for Remote Networking Monitoring System*, Acta Electrotehnica, nr.5, vol.56, pp 250-253, Cluj-Napoca, 2015, ISSN 1841-3323, [Google Scholar], [EBSCO]
 6. **Rodica Holonec**, M. Gabor, R. Copindean, F. Drăgan, *An Electrooculogram Based Virtual Instrumentation System*, Acta Electrotehnica, nr.5, vol.56, pp 225-229, Cluj-Napoca, 2015, ISSN 1841-3323, [Google Scholar], [EBSCO]
 7. **Rodica Holonec**, Carmen Raluca David-Crișan, Florin Drăgan, *Monitoring Patients System with SMS alerts*. Acta Electrotehnica, 2016, vol 57, nr. 5, pp 596-599, ISSN 1841-3323, [Google Scholar], [EBSCO]
 8. **Rodica Holonec**, R Copindean, F Dragan, L Rápolti *Self-guided AR Drone using LabVIEW*. - Acta Electrotehnica, 2016, vol 57, nr 5, pp 600-603, ISSN 1841-3323, [Google Scholar], [EBSCO]
 9. Oana-Ancuta Buzura, **Rodica Holonec**, Petru Marius Maier, *Interpolation Algorithm using Catmull-Rom Spline Function and Operator*, Acta Electrotehnica, 2016, Vol 57, nr 5, pp 554-559, ISSN 1841-3323, [Google Scholar], [EBSCO]
 10. Florin Drăgan, **Rodica Holonec**, Romul Copindean, *Remote Monitoring System for Home or Residential Photovoltaic Panel*. Acta Electrotehnica, 2016, Vol 57, nr 5, pp 591-595 ISSN 1841-3323, [Google Scholar], [EBSCO]
 11. **Rodica Holonec**, R Copandean, F Dragan, V Buda, *LabVIEW Based System for Solving SUDOKU Puzzles*, Acta Electrotehnica 58 (3), 2017, pp 340-344, ISSN 1841-3323, [Google Scholar], [EBSCO]
 12. M Maier, A Pacuraru, R Copindean, **Rodica Holonec**, *Building management system*, Acta Electrotehnica 2017, Vol. 58 (3), pp 527-331, ISSN 1841-3323, [Google Scholar], [EBSCO]
 13. Florin Drăgan, **Rodica Holonec**, Romul Copindean, *Digital Color Sensor based Solution for Recyclable Material Sorting System* Acta Electrotehnica, 2018, Vol 58, nr.4, pp 306-311, ISSN 1841-3323, [Google Scholar], [EBSCO]
 14. R Copindean, **Rodica Holonec**, F Dragan, *The PLC Implementation of an Automated Sorting System using Optical Sensors*. 2018, Acta Electrotehnica 58 (4), pp 312-316, ISSN 1841-3323, [Google Scholar], [EBSCO]
 15. Ana Ispas, **Rodica Holonec**, Titus Crișan, Gabriel Fodor, Mariana Constantiniuc, *Role of occlusal forces in the development of noncarious cervical lesions*, Journal of Human and Veterinary Medicine, 2019, Volume 11, Issue 1, Pages, 6-10, Editor Bioflux SRL, ISSN: 2066-7655, [Google Scholar], [EBSCO]
 16. V. D. Zaharia; **Rodica Holonec**; S. Crișan; C. Mureșan; R. Munteanu Jr, *Three-Dimensional Scanning and Graphic Processing System*, Acta Electrotehnica Volume 55, Number 1-2 ISSN 1841-3323, 2014, Cluj-Napoca, Romania, pp. 83-88, , [EBSCO]
 17. **Rodica Holonec**, Simona Vlad, Nicolae M Roman, Laszlo Rapolti, *Smart House Control Using Hand Gestures Recognition LabVIEW Applications*, Conference 7th International Conference on Advancements of Medicine and Health Care through Technology: Proceedings of MEDITECH-2020, 13-15 October 2020, Pages 240-249, Springer International Publishing, [Google Scholar],
 18. Laszlo Rapolti, **Rodica Holonec**, Laura Grindei, Oana Viman, *Automated Sorting of Pharmaceutical Waste Using Machine Vision Technology*, 7th International Conference on Advancements of Medicine and Health Care through Technology: Proceedings of MEDITECH-2020, 13-15 October 2020, Pages, 409-416, Springer International Publishing, [Google Scholar],

19. Romul Copîndean, Rodica Holonec, *A Lighting Warning System based on Vehicle Braking Firmness Measurement*, 2020/10/1, Journal Acta Electrotehnica, Volume 61, Issue 4, [Google Scholar], [EBSCO]
20. Robert D Reman, Laszlo Rapolti, **Rodica Holonec**, Romul Copîndean, *Designing a Low-Cost Automated Storage and Retrieval System for Hazardous Materials*, 2020/10/1, Journal Acta Electrotehnica Volume 61, Issue 4, [Google Scholar], [EBSCO]

E – Brevete obținute pentru întreaga activitate

1. Muntean N., Nicoara D., Tanase Rodica (cas. **Holonec**), Volosencu C., *Instalație pentru testarea transductorilor ultrasonici imersibili*, Certificat de Inventator nr.102040, Oficiul de Stat pentru Inventii si Marci

F – Contracte de cercetare (2020-2025)

1. **Rodica Holonec**, Romul Copindean, Florin Dragan, Rapolti Laszlo responsabil Grup MAS in Proiect Complex: Tehnologii inovative pentru recuperarea avansată a materialelor din deșeuri de echipamente informatice și de telecomunicații (TRADE-IT) PN-III-P1-1.2-PCCDI-2017-0652, Contract nr. 84PCCDI/2018 Proiect Component: Tehnologii optimizate cu impact redus asupra mediului pentru recuperarea avansata a materialelor din deșeuri de echipamente informatice si de telecomunicații - TORA, , <https://tradeit.utcluj.ro/>

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Semnătura

