

A N E X A 4 . 5

Nume Prenume:

Gradul didactic:

Instituția unde este titular: Univ. Tehnică din Cluj-Napoca

Facultatea: de Inginerie

Departamentul: de Inginerie Electrică, Electronică și Calculatoare

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

1. Claudiu Lung, „Contribuții teoretice și experimentale la implementarea sistemelor dedicate inteligente” – Teza de doctorat, Universitatea Tehnică din Cluj Napoca, 2013

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

1. Claudiu Lung “Sisteme cu FPGA” – Editura EUROTIP, Baia Mare, 2024, ISBN 978-606-617-604-0
2. Melnychuk Stepan, Barz Cristian, Manuliak Iryna, Lung Claudiu, Ghid de inovare în domeniul electric - ISBN 978-973-53-3005-7, - Editura RISOPRINT Cluj-Napoca 2023
3. Claudiu Lung, Ștefan Oniga, Radu Joian, Ciprian Gavrincea, „Circuite integrate digitale – Îndrumător de laborator” – Editura Universității de Nord, Baia Mare, 2008 ISBN 978-973-1729-86-2
4. Stet Mihaela, Yaroslav Adamenko, Claudiu Lung, Mircea Horgos et al. , “The environmental impact of the production , transmission, distribution and use of electricity – textbook – Cluj Napoca IFNTUOG, ISBN 978-966-694-401-9, 2021
5. Stet Mihaela, Yaroslav Adamenko, Claudiu Lung, Mircea Horgos et. al. , “The environmental impact of the production , transmission, distribution and use of electricity – Editura Casa cartii de stiinta ISBN 978-606-17-1870-2, 2021
6. Stet Mihaela, Cioruta Bogdan, Coman Mirela, Horgos Mircea, Lung Claudiu – “Impactul electricitatii asupra mediului” - îndrumător de laborator – Editura Casa cărții de știință - 2021

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Pop Adrian, Claudiu Lung, Sebastian Sabou, Tarca Radu, Pop Nicolae, “Experimental evaluation of LoRa for remote vehicle tracking and control in urban areas” 2022 IEEE 28TH 25th International Symposium for Design and Technology in Electronic Packaging (SIITME) Bucharest, ROMANIA, pp.128-131, DOI10.1109/SIITME56728.2022.9987752
2. Radu Joian, Claudiu Lung, Mircea Horgos, “The Experimental Determinations at the Wind Farm Fantanele – Cogeaalac in Dobrogea”, 2021 IEEE 27th International Symposium for Design and Technology in Electronic Packaging (SIITME), pp. 369-373, 27-30 Oct 2021, Timișoara, Romania, 978-1-6654-2110-2/21/\$31.00 ©2021 IEEE

3. Jozsef Suto; Stefan Oniga; Claudiu Lung; Ioan Orha, “Comparison of offline and real-time human activity recognition results using machine learning techniques”, *Neural Computing and Applications* (2020) 32:15673–15686, <https://doi.org/10.1007/s00521-018-3437-x>
4. Adrian I. Pop, Claudiu Lung, “Design and implementation of a power management system with IoT features”, 2019 IEEE 25th International Symposium for Design and Technology in Electronic Packaging (SIITME), pp. 278-281, 23-26 October 2019, Cluj-Napoca, Romania, 978-1-7281-3330-0/19/\$31.00
5. Sebastian, Sabou., Claudiu, Lung. “Determining the duration of execution of some functions and algorithms for the Arduino Uno platform” (2019) SIITME 2019 - 2019 IEEE 25th International Symposium for Design and Technology in Electronic Packaging, Proceedings, art. no. 8990866, pp. 287-290, <https://www.scopus.com/inward/record.uri?eid=2-s2.0.085080146131&doi=10.1109%2fSIITME47687.2019.8990866&partnerID=40&md5=72bc224eabd9a693ddf516a93895c56b> DOI: 10.1109/SIITME47687.2019.8990866
6. Claudiu Lung ; Attila Buchman ; Sebastian Sabou, „Smart city emergency situations management system based on sensors network”, 2018 IEEE 24th International Symposium for Design and Technology in Electronic Packaging (SIITME), pp. 306-309, 25-28 October 2018, Iasi, Romania, ISBN: 978-1-5386-5577-1/18/\$31.00 ©2018 IEEE, INSPEC Accession Number: 18367284, DOI: 10.1109/SIITME.2018.8599257
7. Attila Buchman, Claudiu Lung, „State of charge and state of health estimation of Lithium-Ion batteries”, 2018 IEEE 24th International Symposium for Design and Technology in Electronic Packaging (SIITME), pp. 306-309, 25-28 October 2018, Iasi, Romania, ISBN: 978-1-5386-5577-1/18/\$31.00 ©2018 IEEE, INSPEC Accession Number: 18357545, DOI: 10.1109/SIITME.2018.8599196
8. Cristian Barz, Claudiu Lung, Olivian Chiver, Claus Jalba, „The Development of an Intelligent Gripper with Freely Programmable Controls”, 2018 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE), pp. 479-482, 18-19 October 2019, Iasi, Romania, ISBN: 978-1-5386-5062-2.
9. Jozsef Suto, Stefan Oniga, Claudiu Lung, Ioan Orha, “Recognition Rate Difference between Real-time and Offline Human Activity Recognition”, *Internet of Things for the Global Community, IoTGC 2017 - Proceedings* 11 August 2017 Article number 8008967 2017 Internet of Things for the Global Community, IoTGC 2017, 10 July 2017 - 12 July 2017, 978-1-5386-2064-9/17/\$31.00 ©2017 IEEE, DOI 10.1109/IoTGC.2017.8008967
10. A. Pop-Vadean, P. P. Pop, Tihomir Latinovic, C. Barz, Claudiu Lung, “Harvesting energy an sustainable power source, replace batteries for powering WSN and devices on the IoT”, *Innovative Ideas in Science (IIS)* (2016), November 10-11 2016, Baia Mare, Romania, IOP Conf. Series: Materials Science and Engineering 200 (2017) 012043 doi:10.1088/1757-899X/200/1/012043
11. Zoltan Erdei, Mircea Horgos, Claudiu Lung, A Pop-Vadean, R Muresan, „Frequency behavior of the residual current devices” - *International Conference on Applied Sciences (ICAS2016)*, May 25-27, 2016, Hunedoara, Romania, IOP Conf. Series: Materials Science and Engineering 163 (2017) 012053, p.1-7, doi:10.1088/1757-899X/163/1/012053
12. Claudiu Lung, Sebastian Sabou, Attila Buchman „Wireless sensor networks as part of emergency situations management system” – *International Symposium for Design and Technology of Electronic Packages, SIITME 2016*, 22nd Edition, Oradea, Romania, October 20-23, 2016, p.240-243, Print ISBN: 978-1-5090-4446-7, WOS:000390557400051



13. Sebastian Sabou, Claudiu Lung, „Obstacle avoidance algorithm” – International Symposium for Design and Technology of Electronic Packages, SIITME 2016, 22nd Edition, Oradea, Romania, October 20-23, 2016, p.262-265, Print ISBN: 978-1-5090-4446-7, WOS:000390557400056

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

- 1.
- 2.

E. Brevete obținute în întreaga activitate

Data: 20.09.2026

Semnătura: