ACADEMIA FORŢELOR TERESTRE
„NICOLAE BĂLCESCU”
Mr.lect.univ.dr. Annamaria SÂRBU
Nr..... din .....
SIBIU

Anexa nr. 10

FIŞA DE VERIFICARE

A ÎNDEPLINIRII STANDARDELOR DE PREZENTARE LA EXAMEN

I. Deţinerea titlului de doctor

Annamaria SÂRBU (născută PALJANOS) - doctor în inginerie electrică (calificativ foarte bine/magna cum laude), Universitatea Tehnică, Cluj Napoca, 2016, Conducator: Prof. dr. ing. Călin MUNTEANU, diploma de doctor seria J nr.0020127, titlul științific emis în baza ordinului Ministerului Educației Naționale și Cercetării Științifice nr. 5895/28.11.2016, Titlul tezei: *Evaluarea expunerii umane ambientale și profesionale la surse de radiocomunicații.*

II. Îndeplinirea standardelor minimale naționale de ocupare a postului – conform Ordinul ministrului educaţiei naţionale nr. 6.129 din 20.12.2016- Anexa nr.11 Comisia Electronică, telecomunicaţii şi nanotehnologie

A1. ACTIVITATEA DIDACTICĂ ȘI PROFESIONALĂ

A 1.1.2. Cărți de autor sau capitole de specialitate în editudi cu ISBN naționale							
Nr. crt.	**Autori**	**Titlu**	**ISBN**	**Editura**	**An aparitie**	**Nr. autori**	**Punctaj**
1	Sârbu Annamaria; Munteanu Călin	Evaluarea expunerii umane la câmpuri de radiofrecvență	978-606-737-404-9	U.T. Press	2019	2	25
A.1.2.1. Material didactic/lucrări didactice publicate în edituri cu ISBN							
Nr. crt.	**Autori**	**Titlu**	**ISBN**	**Editura**	**An aparitie**	**Nr. autori**	**Punctaj**
1	Sârbu Annamaria	Comunicații optoelectronice. Îndrumar de laborator	ISBN 978-973-153-544-9	Academiei Forțelor Terestre “Nicolae Bălcescu”	2023	1	40
2	Sârbu Annamaria	Semnale și sisteme. Note de curs	ISBN 978-973-153-547-0	Academiei Forțelor Terestre “Nicolae Bălcescu”	2023	1	40
						Total A1	**105**

A2. ACTIVITATEA DE CERCETARE

A 2.1 Articole în reviste cotate ISI, și lucrări în volumele unor manifestări științifice indexate ISI								
Nr. crt.	**Autori**	**Titlu**	**Journal/Manifestare științifică**	**An publicare**	**Factor impact**	**An FI**	**Nr. autori**	**Punctaj**
1.	Angela Digulescu, Annamaria Sarbu, Denis Stanescu, Dragos Nastasiu, Cristina-Despina Stoian, Cornel Ioana, Ali Mansour	Detection of OFDM modulations based on the characterization in the phase diagram domain	Frontiers in signal processing (Vol. 3). Frontiers Media SA. doi.org/10.3389/frsip.2023.1197590s	2023	0.00	2022	7	**3.57**
2.	Șorecău, M., Șorecău, E., Sârbu, A., Bechet, P.	Real-time statistical measurement of wideband signals based on software defined radio technology	Electronics 2023, 12, no. 13: 2920. doi.org/10.3390/electronics12132920	2023	2.90	2022	4	**28.00**
3.	Annamaria Sârbu; David Vatamanu; Simona Miclăus; George Mihai; Mirela Șorecău; Emil Șorecău; Paul Bechet	Computational and experimental characterization of EMF exposure at 3.5 GHz using electro-optical probes	2022 IEEE International Symposium on Measurements & Networking (M&N), Padua, Italia, 2022, pp. 1-5, doi: 10.1109/MN55117.2022.9887777	2022	0.25	2022	7	**4.64**
4.	Sârbu, Annamaria, Marco Donald Migliore, Emil Șorecău, Mirela Șorecău, Simona Miclăuș, and Paul Bechet.	SDR-enabled multichannel real-time measurement system for in situ EMF exposure evaluation	Electronics 2022, 11, 2670. doi.org/10.3390/electronics11172670	2022	2.90	2022	6	**18.67**
5.	Annamaria Sârbu, Emil Șorecău, Mirela Șorecău, Simona Miclău, Paul Bechet	Real-time isotropic measurement system based on Software Defined Radio	2022 IEEE 9th Electronics System-Integration Technology Conference (ESTC), Sibiu, Romania, 2022, pp. 597-602, doi: 10.1109/ESTC55720.2022.9939503	2022	0.25	2022	5	**6.50**
6.	Simona Miclaus, Paul Bechet, Robert Helbet, Antoniu Miclaus, Annamaria Sarbu	Towards 5G exposimetry: instantaneous and average energy density accumulation rate in air near wireless devices transmitting data as sub-millisecond frames	12th International Symposium on Advanced Topics in Electrical Engineering (ATEE) Romania, 2021, pp. 1-4, doi: 10.1109/ATEE52255.2021.9425087	2021	0.25	2022	5	**6.50**
7.	Andrea Buda, Annamaria Sarbu	Development of an Android application for user exposure assessment to electromagnetic fields emitted by an IEEE 802.11 ax client	2021 IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom) Bucharest, Romania, 2021, pp. 1-5, doi: 10.1109/BlackSeaCom52164.2021.9527788.	2021	0.25	2022	2	**16.25**

A 2.1 Articole în reviste cotate ISI, și lucrări în volumele unor manifestări științifice indexate ISI								
Nr. crt.	**Autori**	**Titlu**	**Journal/Manifestare științifică**	**An publicare**	**Factor impact**	**An FI**	**Nr. autori**	**Punctaj**
8.	Annamaria Sarbu,Paul Bechet, Simona Miclăuș, Robert Helbet, Emil Șorecău	Isotropic near field measurement system for new generation communication signals: Preliminary design and USRP calibration	2021 International Conference on Applied and Theoretical Electricity (ICATE) Craiova, Romania, 2021, pp. 1-5, doi: 10.1109/ICATE49685.2021.9465022	2021	0.25	2022	5	**6.50**
9.	Annamaria Sarbu,Simona Miclăuș, Emil Șorecău,Paul Bechet,	Approaching user exposure assessment using broadband versus frequency-selective methods: IEEE 802.11ax mobile device emitted field	2021 Joint IEEE International symposium on electromagnetic compatibility, signal & power integrity, and EMC Europe, Raleigh, NC, USA, 2021, pp. 243-248, doi: 10.1109/EMC/SI/PI/ EMCEurope52599.2021.9559353	2021	0.25	2022	4	**8.13**
10.	Robert Helbet, Paul BECHET, Simona MICLAUS, Annamaria SARBU	Real time broadband electromagnetic spectrum monitoring system based on software defined radio technology	2021 9th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2021, pp. 1-6, doi: 10.1109/MPS52805.2021.9492577	2021	0.25	2022	4	**8.13**
11.	Sarbu Annamaria, MiclăuşSimona Digulescu Angela Bechet Paul	Comparative analysis of user exposure to the electromagnetic radiation emitted by the fourth and fifth generations of Wi-Fi communication devices	International Journal of Environmental Research and Public Health 2020, 17, 8837. doi.org/10.3390/ijerph17238837	2020	3.39	2020	4	**31.68**
12.	Sarbu, A; Bechet, A; Balan, T; Robu, D; Bechet, P; Miclaus, S	Using CCDF statistics for characterizing the radiated power dynamics in the near field of a mobile phone operating in 3G+and 4G+communication standards	Measurement Vol. 134, pp. 874–887, Elsevier BV. doi.org/10.1016/j.measurement.2018.12.018	2019	5.60	2022	6	**32.17**
13.	Bechet, AC; Helbet, R; Bouleanu, I; Sarbu, A; Miclaus, S; Bechet, P	Low-cost solution based on software defined radio for the rf exposure assessment: a performance analysis	2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, 2019, pp. 1-4, doi: 10.1109/ATEE.2019.8724739	2019	0.25	2022	5	**6.50**
14.	Bechet Andrei Cristian , Helbet Robert, Miclaus Simona, Bouleanu Iulian, Sârbu Annamaria, Bechet Paul	Comparative WLAN exposure analysis: weighted channel power method versus CCDF method	2019 8th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Cluj, Romania, 2019, pp. 1-4, doi: 10.1109/MPS.2019.8759767	2019	0.25	2022	6	**5.42**
15.	Bechet AC, Helbet R, Miclaus S,Bouleanu I, Sarbu A, Bechet P	Assesing the electric field strength in the vicinity of devices emitting signals in the IEEE 802.11ac standard of communication	2019 International Symposium on Electromagnetic Compatibility - EMC EUROPE, Barcelona, Spain, 2019, pp. 1025-1029, doi: 10.1109/EMCEurope.2019.8871979	2019	0.25	2022	6	**5.42**

A 2.1 Articole în reviste cotate ISI, și lucrări în volumele unor manifestări științifice indexate ISI								
Nr. crt.	**Autori**	**Titlu**	**Journal/Manifestare științifică**	**An publicare**	**Factor impact**	**An FI**	**Nr. autori**	**Punctaj**
16.	Bouleanu I., Miclaus S., Bechet A., Bechet P., A. Sarbu, Helbet R.	Assesment of the near field level in the vicinity of an inverted V antenna used for HF emission	2018 International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, 2018, pp. 1-4, doi: 10.1109/ICATE.2018.8551359	2018	0.25	2022	5	**6.50**
17.	Paljanos, Annamaria; Munteanu, Calin; Miclaus, Simona	Correlating electric and magnetic field strength with induced foot currents - occupational exposure assessment of personnel operating professional radio equipment	University Politehnica of Bucharest Scientific Bulletin series C-Electrical engineering and computer science, Vol. 78, Iss. 4, 2016	2016	0.30	2022	3	**11.33**
18.	Paljanos, Annamaria; Munteanu, Calin; Karpowicz, Jolanta	Methodological challenges in near-field exposure assessment of personnel operating military radio equipment using personal exposimeters: possible difficulties in compliance analysis	2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, 2016, pp. 287-293, doi: 10.1109/ICEPE.2016.7781349	2016	0.25	2022	3	**10.83**
19.	Apreutesei A.L., Paljanos A., Miclauș S., Mihai G., Aron A. M., Bechet P., Curteza A., Baltag O.	Radiation reduction capabilities of some textiles with metallic yarns attached to mobile phones emitting in 2G- and 3G- communication standards	2016 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, 2016, pp. 387-391, doi: 10.1109/ICEPE.2016.7781368	2016	0.25	2022	8	**4.06**
20.	Mihai G., Aron A.M., Haralambie V., Paljanos A.	Study of mobile phone SAR levels modification in different experimental configurations under 2G and 3G communication standards,	2016 International Conference on Communications (COMM), Bucharest, Romania, 2016, pp. 491-494, doi: 10.1109/ICComm.2016.7528294	2016	0.25	2022	4	**8.13**
21.	Paljanos, Annamaria; Munteanu, Calin; Karpowicz, Jolanta	Measuring induced foot currents caused by radiofrequency electromagnetic fields exposure of manpack radio transceivers users	Environmental Engineering and Management Journal, Vol. 15, Issue 12, pp. 2641–2649 https://doi.org/10.30638/eemj.2016.290	2016	1.10	2022	3	**19.33**
22.	Paljanos A., Miclăuș S., Bechet P., Munteanu C.	Assessment of mobile phone user exposure to UMTS and LTE signals: comparative near-field radiated power levels for various data and voice application services	Journal of Electromagnetic Waves and Applications, Vol. 30, Issue 9, pp. 1101–1115, https://doi.org/10.1080/09205071.2016.1167634	2016	1.30	2022	3	**21.33**
23.	Paljanos A., Miclăuș S., Munteanu C.	Occupational exposure of personnel operating military radio equipment: measurements and simulation	Electromagnetic Biology and Medicine, Vol. 34, Issue 3, pp. 221–227 https://doi.org/10.3109/15368378.2015.1076446	2015	1.70	2022	3	**25.33**

A 2.1 Articole în reviste cotate ISI, și lucrări în volumele unor manifestări științifice indexate ISI								
Nr. crt.	**Autori**	**Titlu**	**Journal/Manifestare științifică**	**An publicare**	**Factor impact**	**An FI**	**Nr. autori**	**Punctaj**
24.	Paljanos A., Munteanu C., Miclăuş S.	Near-field level emitted by professional radio communication devices: preliminary measurements and simulations for an occupational exposure assessment approach	2014 International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, 2014, pp. 508-513, doi: 10.1109/ICEPE.2014.6969960	2014	0.25	2022	3	**10.83**
25.	Miclăuş S., Paljanos A., Bechet P.	Association between specific absorption rate values of mobile phones and their electromagnetic near-field levels	17th International Conference - The KBO, Conference proceedings 3, pp.299-304	2011	0.25	2022	3	**10.83**
26.	Paljanos Annamaria	Defense spending in the context of economic hardship	16th International Conference the KBO, Conference proceedings 2, pp.80-85	2010	0.25	2022	1	**32.50**
							Total A2.1	**349.08**
							Factor de impact cumulat	**23.44**

A 2.2 Articole în reviste, și lucrări în volumele unor manifestări științifice indexate în alte baze de date internaționale recunoscute (BDI)							
Nr. crt.	**Autori**	**Titlu**	**Jurnal/Conferință**	**An publicare**	**Nr autori**	**BDI**	**Punctaj**
1.	Simona Miclaus, Delia-Bianca Deaconescu, David Vatamanu, Andreea Maria Buda, Annamaria Sarbu, Bogdan Pindaru.	Peculiarities of the radiated field in the vicinity of a mobile terminal connected to 4G versus 5G networks during various applications usage	AIMS Electronics and Electrical Engineering, Vol. 6, Issue 2, pp. 161–177 https://doi.org/10.3934/electreng.2022010	2022	6	Scopus	**3.33**
2.	Annamaria Sârbu, Alina Cotoi, David Vatamanu, Cătălina Neghină, Simona Miclăuş	Using infrared thermography for addressing the spatial variability of electromagnetic field in the proximity of emitting antennas	2023 10th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2023, pp. 01-05, doi: 10.1109/MPS58874.2023.10187538	2023	5	IEEE Explore	**4.00**
3.	Emil Sorecau, Mirela Sorecau, Neculai Craiu, Annamaria Sarb, Paul Bechet	Man-made Noise Measurement System for HF Band Based on SDR platforms - Design and Implementation	2022 International Symposium on Electronics and Telecommunications (ISETC), Timisoara, Romania, 2022, pp. 1-4, doi: 10.1109/ISETC56213.2022.10010035	2022	5	IEEE Explore	**4.00**

A 2.2 Articole în reviste, și lucrări în volumele unor manifestări științifice indexate în alte baze de date internaționale recunoscute (BDI)							
Nr. crt.	**Autori**	**Titlu**	**Jurnal/Conferință**	**An publicare**	**Nr autori**	**BDI**	**Punctaj**
4.	Emil Sorecau, Mirela Sorecau, Neculai Craiu, Annamaria Sarbu, Paul Bechet	SNR Measurement of Ionospheric Channels for Availability Evaluation under NVIS Propagation	2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2022, pp. 275-279, doi: 10.1109/EPE56121.2022.9959804	2022	5	IEEE Explore	**4.00**
5.	Şorecău, M., Şorecău, E., Sârbu, A., Bechet, P.	Spectral Analysis and Digital Signal Processing in Engineering Using Software Defined Radios and GNU Radio Software	In Open Science in Engineering (pp. 1005–1017). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-42467-0_93	2023	4	Springerlink	**5.00**
6.	Annamaria Sârbu, Mirela Șorecău, Emil Șorecău, Paul Bechet	Frequency hopping signals tracking and sorting algorithm for military radio networks	2023 International Symposium on Electromagnetic Compatibility – EMC Europe, Krakow, Poland, 2023, 10.1109/EMCEurope57790.2023.10274264	2023	4	IEEE Explore	**5.00**
7.	Simona Miclaus,Annamaria Sarbu, Paul Bechet	Using Poincare Plots for Feature Extraction of the Dynamics of Electromagnetic Field Exposures when Using Different Protocols of Wi-Fi Communications	8th international Conference on wireless communication and sensor networks https://doi.org/10.1145/3461717.3461723	2021	3	ACM	**6.67**
						Total A2.2	**32**

A 2.4. Granturi/proiecte de cercetare câștigate prin competiție națională						
Nr.crt.	**Titlu**	**Tip competiție**	**Buget**	**Perioada desfășurare**	**Calitatatea**	**Punctaj**
1.	Contribuții privind evaluarea acurată a expunerii umane în câmpul apropiat al dispozitivelor de comunicatii wireless de ultimă generație (inclusiv 5G)	UEFISCDI PN-III-P1-1.1-PD-2019	246.950 RON	Septembrie 2020-August 2022	Director proiect	**20**
2.	Sistem inteligent de monitorizare a emisiilor radio	Planul sectorial de cercetare-dezvoltare al MApN aferent perioadei 2022-2025	1400000 (budget partener AFT)	Noiembrie 2022-Aprilie 2025	Membru în echipă	**4**
					Total A 2.4	**24**
					Total A2	**405.08**

A3 Recunoașterea și impactul activității

A 3.1 Citări în cărți, reviste și volume ale unor manifestări științifice							
Nr. crt.	**Autori**	**Nr autori**	**Titlul lucrării citate**	**Citat în lucrarea:**	**Obs.**	**Baza de date in care este citată**	**Punctaj**
1.	Sorecau Mirela,Șorecău, E.; Sârbu, A.; Bechet, P.	4	Real-Time Statistical Measurement of Wideband Signals Based on Software Defined Radio Technology	Chen, C.; Fei, D.; Zheng, P.; Ai, B. A Passive Channel Measurement and Analysis Based on a 5G Commercial Network in V2I Communications. *Electronics* 2023, *12*, 3715. https://doi.org/10.3390/electronics12173715	Q2	WOS	**4.00**
2.	Sarbu Annamaria, Simona Miclăuș, Angela Digulescu, Paul Bechet	4	Comparative Analysis of User Exposure to the Electromagnetic Radiation Emitted by the Fourth and Fifth Generations of Wi-Fi Communication Devices	Dhasarathan P, Elizabeth Mathew MG, Athinarayanan AJ and Ranjitsingh A, Electromagnetic Radiations on the Functional Potential of Spermatozoa, Austin J Public Health Epidemiol. 2021; 8(3): 1103.		WOS	**2.00**
3.	Paljanos Annamaria, Simona Miclăuș, Paul Bechet, Calin Munteanu	4	Assessment of mobile phone user exposure to UMTS and LTE signals: comparative near-field radiated power levels for various data and voice application services	P. Joshi, D. Colombi, B. Thors, L. Larsson and C. Törnevik, "Output Power Levels of 4G User Equipment and Implications on Realistic RF EMF Exposure Assessments," in *IEEE Access*, vol. 5, pp. 4545-4550, 2017, doi: 10.1109/ACCESS.2017.2682422	Q2	WOS	**4.00**
				Iyare, R. N., Volskiy, V., & Vandenbosch, G. A. E. (2021). Comparison of peak electromagnetic exposures from mobile phones operational in either data mode or voice mode. In Environmental Research (Vol. 197, p. 110902). Elsevier BV. https://doi.org/10.1016/j.envres.2021.110902		WOS	**2.00**
				Architecture of public mobile networks and its impact on EMF exposure. (2019). In Low Electromagnetic Emission Wireless Network Technologies: 5G and beyond (pp. 115–139). Institution of Engineering and Technology. https://doi.org/10.1049/pbte084e_ch5		WOS	**2.00**
				Simona Miclaus and Paul Bechet, "Non-Stationary Statistics with Amplitude Probability Density Function for Exposure and Energy Density Reporting Near a Mobile Phone Running 4G Applications," Progress In Electromagnetics Research M, Vol. 89, 151-159, 2020, doi:10.2528/PIERM19110706		WOS	**2.00**
				Popović, M., Koprivica, M., Milinković, J. *et al.* Experimental analysis of individual EMF exposure for GSM/UMTS/WLAN user devices. *Ann. Telecommun.* 74, 79–91 (2019). https://doi.org/10.1007/s12243-018-0679-7		WOS	**2.00**

A 3.1 Citări în cărți, reviste și volume ale unor manifestări științifice							
Nr. crt.	**Autori**	**Nr autori**	**Titlul lucrării citate**	**Citat în lucrarea:**	**Obs.**	**Baza de date in care este citată**	**Punctaj**
	Paljanos Annamaria, Simona Miclăuș, Paul Bechet, Calin Munteanu	4	Assessment of mobile phone user exposure to UMTS and LTE signals: comparative near-field radiated power levels for various data and voice application services	Miroslav Kohan, Miroslava Spronglova, Nadezda Visnovcova, Jakub Misek, Gabriela Spanikova, Viera Jakusova, & Jan Jakus. (2020). Monitoring of Data Transmission and Changes in Values of Electromagnetic Field in Living Environment. *Communications - Scientific Letters of the University of Zilina*, *22*(1), 71-76. https://doi.org/10.26552/com.C.2020.1.71-76		SCOPUS	**1.00**
				Rachel Nkem Iyare, Vladimir Volskiy, Guy A.E. Vandenbosch, Comparison of peak electromagnetic exposures from mobile phones operational in either data mode or voice mode, Environmental Research, Volume 197, 2021, 110902, ISSN 0013-9351, https://doi.org/10.1016/j.envres.2021.110902.		Elsevier, Science Direct	**1.00**
				M. Kohan *et al*., "Comparison of networking technology in relationship with cellular phone radiation as a potential threat to the population," *2020 ELEKTRO*, 2020, pp. 1-5, doi: 10.1109/ELEKTRO49696.2020.9130330.		WOS	**2.00**
				Miroslav Kohan, Miroslava Spronglova, Nadezda Visnovcova, Jakub Misek, Gabriela Spanikova, Viera Jakusova, Jan Jakus, Monitoring of Data Transmission and Changes in Values of Electromagnetic Field in Living Environment, 22/2020,71-76		Carte	**2.00**
4.	Annamaria Sârbu,Andrei Bechet, Titus Bălan, Dan Robu, Paul Bechet, Simona Miclăuș	6	Using CCDF statistics for characterizing the radiated power dynamics in the near field of a mobile phone operating in 3G+ and 4G+ communication standards	Iyare, R. N., Volskiy, V., & Vandenbosch, G. A. E. (2021). Comparison of peak electromagnetic exposures from mobile phones operational in either data mode or voice mode. In Environmental Research (Vol. 197, p. 110902). Elsevier BV. https://doi.org/10.1016/j.envres.2021.110902		WOS	**1.33**
				Simona Miclaus and Paul Bechet, "Non-Stationary Statistics with Amplitude Probability Density Function for Exposure and Energy Density Reporting Near a Mobile Phone Running 4G Applications," Progress In Electromagnetics Research M, Vol. 89, 151-159, 2020, doi:10.2528/PIERM19110706		WOS	**1.33**
				Miclaus, S.; Deaconescu, D.B.; Vatamanu, D.; Buda, A.M. An Exposimetric Electromagnetic Comparison of Mobile Phone Emissions: 5G versus 4G Signals Analyses by Means of Statistics and Convolutional Neural Networks Classification. Technologies 2023, 11, 113. https://doi.org/10.3390/technologies11050113		Elsevier, Scopus	**0.67**
				Rachel Nkem Iyare, Vladimir Volskiy, Guy A.E. Vandenbosch, Comparison of peak electromagnetic exposures from mobile phones operational in either data mode or voice mode, Environmental Research, Volume 197, 2021, 110902, ISSN 0013-9351, https://doi.org/10.1016/j.envres.2021.110902.		Science Direct	**0.67**

A 3.1 Citări în cărți, reviste și volume ale unor manifestări științifice							
Nr. crt.	**Autori**	**Nr autori**	**Titlul lucrării citate**	**Citat în lucrarea:**	**Obs.**	**Baza de date in care este citată**	**Punctaj**
	Annamaria Sârbu,Andrei Bechet, Titus Bălan, Dan Robu, Paul Bechet, Simona Miclăuș	6	Using CCDF statistics for characterizing the radiated power dynamics in the near field of a mobile phone operating in 3G+ and 4G+ communication standards	N. K. Uluaydin, O. Cerezci and S. S. Seker, "Can Mobile Phone Usage Affect Hypothalamus-Pituitary-Adrenal Axis Response?," 2020 10th Annual Computing and Communication Workshop and Conference (CCWC), 2020, pp. 0780-0783, doi: 10.1109/CCWC47524.2020.9031168.		WOS	**1.33**
5.	Annamaria Sârbu,Marius Sârbu, Cosmin Șumălan	3	Non Wi-Fi Devices Interference Testing in a 2.4 GHz Wi-Fi Home	Mykhalevskiy, Dmytro, Development of a Method for Assessing the Effective Information Transfer Rate Based on an Empirical Model of Statistical Relationship Between Basic Parameters of the Standard 802.11 Wireless Channel (October 27, 2020). Eastern-European Journal of Enterprise Technologies, 5(9 (107)), 26-35, 2020. doi: 10.15587/1729-4061.2020.213834, Available at SSRN: https://ssrn.com/abstract=3730004		Scopus, Index Copernicus	**1.33**
				Forenbacher I., Husnjak S., Jovović I., Bobić M. (2022) The Effect of Non-Wi-Fi Interference on the Throughput of IEEE 802.11 Based Wireless Networks. In: Knapčíková L., Peraković D., Behúnová A., Periša M. (eds) 5th EAI International Conference on Management of Manufacturing Systems. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-030-67241-6_13		Springer Link	**1.33**
				E. Stancu, S. Halunga, O. Fratu, C. Florea, M. G. Berceanu and C. Cristian, "Spectral Analysis in the 2.4 GHz WiFi Band in Bucharest," *2020 13th International Conference on Communications (COMM)*, 2020, pp. 435-438, doi: 10.1109/COMM48946.2020.9142040.		WOS	**2.67**
				Forenbacher, I.; Husnjak, S.; Jovović, I.; Bobić, M. Throughput of an IEEE 802.11 Wireless Network in the Presence of Wireless Audio Transmission: A Laboratory Analysis. *Sensors* 2021, *21*, 2620. https://doi.org/10.3390/s21082620	Q2	WOS	**5.33**
6.	Annamaria Paljanos,Simona Miclaus, Calin Munteanu	3	Occupational exposure of personnel operating military radio equipment: measurements and simulation	Michael Peleg, Or Nativ, Elihu D. Richter, Radio frequency radiation-related cancer: assessing causation in the occupational/military setting, Environmental Research, Volume 163, 2018, Pages 123-133, ISSN 0013-9351, https://doi.org/10.1016/j.envres.2018.01.003.	Q1	WOS	**5.33**

A 3.1 Citări în cărți, reviste și volume ale unor manifestări științifice							
Nr. crt.	**Autori**	**Nr autori**	**Titlul lucrării citate**	**Citat în lucrarea:**	**Obs.**	**Baza de date in care este citată**	**Punctaj**
	Annamaria Paljanos,Simona Miclaus, Calin Munteanu	3	Occupational exposure of personnel operating military radio equipment: measurements and simulation	Daniel LINGVAY , Alin Gabriel BORȘ , Adriana-Mariana BORȘ, Electromagnetic Pollution and its Effects on Living Matter, Electrotehnica, Electronica, Automatica (EEA), 2018, vol. 66, no. 2, pp.05-11, ISSN 1582-5175.		Elsevier,Scopus	**1.33**
				Turuban, M., Kromhout, H., Vila, J., Vallbona-Vistós, M., Baldi, I., & Turner, M. C. (2023). Personal exposure to radiofrequency electromagnetic fields in various occupations in Spain and France. In Environment International (Vol. 180, p. 108156). Elsevier BV. https://doi.org/10.1016/j.envint.2023.108156	Q1	WOS	**5.33**
				LINGVAY D., BORȘ A.G., BORȘ A.M., "Electromagnetic pollution and its effects on living matter", in Electrotehnica, Electronica, Automatica (EEA), 2018, vol. 66, no. 2, pp.05-11, ISSN 1582-5175.		Elsevier-Engineering Village-Scopus	**1.33**
				Burdette, E. C., Seals, J., Auda, S. P., Ambhire, A. D., & Magin, R. L. (2016). Review of the Dielectric Properties of Animal and Human Tumors Determined from In Vivo Measurements. In Critical Reviews in Biomedical Engineering (Vol. 44, Issue 4, pp. 293–318). Begell House. https://doi.org/10.1615/critrevbiomedeng.2017020236		Scopus	**1.33**
				Digulescu, A., Despina-Stoian, C., Popescu, F., Stanescu, D., Nastasiu, D., & Sburlan, D. (2023). UWB Sensing for UAV and Human Comparative Movement Characterization. In Sensors (Vol. 23, Issue 4, p. 1956). MDPI AG. https://doi.org/10.3390/s23041956	Q2	WOS	**5.33**
				Bhatt CR, Henderson S, Brzozek C, Benke G. Instruments to measure environmental and personal radiofrequency-electromagnetic field exposures: an update. Phys Eng Sci Med. 2022 Sep;45(3):687-704. doi: 10.1007/s13246-022-01146-y. Epub 2022 Jun 23. PMID: 35737222; PMCID: PMC9448713.	Q1	WOS	**5.33**
				Gallucci S, Fiocchi S, Bonato M, Chiaramello E, Tognola G, Parazzini M. Exposure Assessment to Radiofrequency Electromagnetic Fields in Occupational Military Scenarios: A Review. Int J Environ Res Public Health. 2022 Jan 14;19(2):920. doi: 10.3390/ijerph19020920. PMID: 35055741; PMCID: PMC8776107.	Q1	WOS	**5.33**

A 3.1 Citări în cărți, reviste și volume ale unor manifestări științifice							
Nr. crt.	**Autori**	**Nr autori**	**Titlul lucrării citate**	**Citat în lucrarea:**	**Obs.**	**Baza de date in care este citată**	**Punctaj**
	Annamaria Paljanos,Simona Miclaus, Calin Munteanu	3	Occupational exposure of personnel operating military radio equipment: measurements and simulation	Stam R. Occupational exposure to radiofrequency electromagnetic fields. Ind Health. 2022 Jun 1;60(3):201-215. doi: 10.2486/indhealth.2021-0129. Epub 2021 Nov 17. PMID: 34789598; PMCID: PMC9171125.		WOS	**2.67**
				S. Miclaus, P. Bechet and J. Karpowicz, "Human body coupling to near field of VHF antennas: An indoor expo-dosimetric survey," *2016 International Conference and Exposition on Electrical and Power Engineering (EPE)*, 2016, pp. 366-371, doi: 10.1109/ICEPE.2016.7781364.		WOS	**2.67**
				Ovidiu Bejenaru, Catalin Lazarescu, Marius Valerian Paulet, Alexandru Salceanu, Marius Vasile Ursachianu, Factors Influencing the Distribution of Maximum Specific Absorption Rates in Far Field Human Exposure Scenarios,ACTA IMEKO, Vol.9, No. 3(2020),DOI: http://dx.doi.org/10.21014/acta_imeko.v9i3.794		Scopus	**1.33**
7.	Andrei Cristian Bechet,Robert Helbet, Iulian Bouleanu, Annamaria Sarbu, Simona Miclaus, Paul Bechet	6	Low Cost Solution Based on Software Defined Radio for the RF Exposure Assessment: A Performance Analysis	Xiaoyu Du, Chris Hargreaves, John Sheppard, Felix Anda, Asanka Sayakkara, Nhien-An Le-Khac, and Mark Scanlon. 2020. SoK: exploring the state of the art and the future potential of artificial intelligence in digital forensic investigation. In Proceedings of the 15th International Conference on Availability, Reliability and Security (ARES '20). Association for Computing Machinery, New York, NY, USA, Article 46, 1–10. DOI:https://doi.org/10.1145/3407023.3407068		ACM	**0.67**
				R. Helbet, V. Monda, A. C. Bechet and P. Bechet, "Low Cost System for Terrestrial Trunked Radio Signals Monitoring Based on Software Defined Radio Technology and Raspberry Pi 4," *2020 International Conference and Exposition on Electrical And Power Engineering (EPE)*, 2020, pp. 438-441, doi: 10.1109/EPE50722.2020.9305536.		IEEE Explore	**0.67**
				Perotoni, M. B., Silva, L. A., Silva, W., & Santos, K. M. G. (2022). NEAR-FIELD MEASUREMENT SYSTEM BASED ON A SOFTWARE DEFINED RADIO. Electromagnetics Research Letters (Vol. 102, pp. 87–94). The Electromagnetics Academy. https://doi.org/10.2528/pierl21111106		WOS	**1.33**
	Andrei Cristian Bechet,Robert Helbet, Iulian Bouleanu, Annamaria Sarbu, Simona Miclaus, Paul Bechet	6	Low Cost Solution Based on Software Defined Radio for the RF Exposure Assessment: A Performance Analysis	Sajja, S. B., Praneeth Avapati, S., Jagarlamudi, N. N., Kamruddin Shaikh, K., & Madireddy, B. B. (2021). A Generic Overview of Software Defined Radio in the Security Realm. In 2021 IEEE International Conference on Mobile Networks and Wireless Communications (ICMNWC). IEEE. https://doi.org/10.1109/icmnwc52512.2021.9688353		WOS	**1.33**

A 3.1 Citări în cărți, reviste și volume ale unor manifestări științifice							
Nr. crt.	**Autori**	**Nr autori**	**Titlul lucrării citate**	**Citat în lucrarea:**	**Obs.**	**Baza de date in care este citată**	**Punctaj**
				Surahmat, I., Widyasmoro, & Hakim, U. L. (2021). Mobile Scanning of LTE Frequency with SDR Technology. In 2021 1st International Conference on Electronic and Electrical Engineering and Intelligent System (ICE3IS). IEEE. https://doi.org/10.1109/ice3is54102.2021.9649675		WOS	**1.33**
				E. Some and A. J. Gasiewski, "Software Defined Radio Injection-Locking using a GPS signal for multichannel coherent receivers," *2023 IEEE Aerospace Conference*, Big Sky, MT, USA, 2023, pp. 1-10, doi: 10.1109/AERO55745.2023.10115547.		IEEE Explore	**0.67**
				D. A. Amoedo *et al*., "Vector Spectrum Analyzer using USRP and Matlab applied to Wi-Fi Signals," *2021 IEEE International Conference on Consumer Electronics-Taiwan (ICCE-TW)*, Penghu, Taiwan, 2021, pp. 1-2, doi: 10.1109/ICCE-TW52618.2021.9603175.		IEEE Explore	**0.67**
				Helbet, R.; Bechet, P.; Monda, V.; Miclaus, S.; Bouleanu, I. Low-Cost Sensor Based on SDR Platforms for TETRA Signals Monitoring. *Sensors* 2021, *21*, 3160. https://doi.org/10.3390/s21093160	Q2	WOS	**2.67**
8.	Annamaria Paljanos,Simona Miclaus, Calin Munteanu	3	Near-field level emitted by professional radio communication devices: preliminary measurements and simulations for an occupational exposure assessment approach	S. Miclaus, P. Bechet and J. Karpowicz, "Experimental determination of human exposure in the near field of VHF sources: Correlations between incident field strength and currents induced in lower legs of persons," *2015 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, 2015, pp. 408-412, doi: 10.1109/ATEE.2015.7133838.		WOS	**2.67**
				S. Miclaus, P. Bechet and J. Karpowicz, "Human body coupling to near field of VHF antennas: An indoor expo-dosimetric survey," *2016 International Conference and Exposition on Electrical and Power Engineering (EPE)*, 2016, pp. 366-371, doi: 10.1109/ICEPE.2016.7781364.		WOS	**2.67**
				S. Miclaus, P. Bechet and J. Karpowicz, "Limb currents due to electromagnetic influence in the VHF reactive near field: The role of field polarization, exposed persons posture and anthropometric parameters," *2016 International Symposium on Fundamentals of Electrical Engineering (ISFEE)*, 2016, pp. 1-6, doi: 10.1109/ISFEE.2016.7803217.		WOS	**2.6**
				Jasman, M. R., Jamaludin, S. N. S., & Yusof, K. M. (2018). Near Field Radio Frequency Radiation Hazard on Military Armoured Vehicle - Approach to a Dose Assessment. *International Journal of Automotive and Mechanical Engineering*, *15*(4), 6052–6063. https://doi.org/10.15282/ijame.15.4.2018.24.0461		WOS	**2.67**

A 3.1 Citări în cărți, reviste și volume ale unor manifestări științifice							
Nr. crt.	**Autori**	**Nr autori**	**Titlul lucrării citate**	**Citat în lucrarea:**	**Obs.**	**Baza de date in care este citată**	**Punctaj**
9.	Andrei Cristian Bechet,Robert Helbet, Simona Miclaus, Iulian Bouleanu, Annamaria Sarbu, Paul Bechet	6	Assesing the Electric Field Strength in the Vicinity of Devices Emitting Signals in the IEEE 802.11 ac Standard of Communication	R. Helbet, V. Monda, A. C. Bechet and P. Bechet, "Low Cost System for Terrestrial Trunked Radio Signals Monitoring Based on Software Defined Radio Technology and Raspberry Pi 4," *2020 International Conference and Exposition on Electrical And Power Engineering (EPE)*, 2020, pp. 438-441, doi: 10.1109/EPE50722.2020.9305536.		IEEE Explore	**0.67**
				K. Jovičić, M. Koprivica, N. Nešković and A. Nešković, "Comparative analysis of electromagnetic radiation origination from WLAN access point using 802.11a, g, n and ac technologies," *2020 28th Telecommunications Forum (TELFOR)*, 2020, pp. 1-4, doi: 10.1109/TELFOR51502.2020.9306566.		WOS	**1.33**
10.	George Mihai,Angel Marian Aron, Valentin Haralambie, Annamaria Paljanos	4	A study of mobile phone SAR levels modification in different experimental configurations under 2G and 3G communication standards	Kamya Yekeh Yazdandoost and Ilkka Laakso, "EMF Exposure Analysis for a Compact Multi-Band 5G Antenna," Progress In Electromagnetics Research M, Vol. 68, 193-201, 2018, doi:10.2528/PIERM18041002		Scopus, Compendex	**1.00**
				Kamya Yekeh Yazdandoost and Ilkka Laakso, "Numerical Modeling of Electromagnetic Field Exposure from 5G Mobile Communications at 10 GHz ," Progress In Electromagnetics Research M, Vol. 72, 61-67, 2018, doi:10.2528/PIERM18070503		WOS	**2.00**
11.	Annamaria Sârbu,Paul Bechet, S Miclaus	3	Mobile phone user exposure assessment to UMTS and LTE signals at mobile data turn on by applying an original method	Popović, M., Koprivica, M., Milinković, J. *et al.* Experimental analysis of individual EMF exposure for GSM/UMTS/WLAN user devices. *Ann. Telecommun.* 74, 79–91 (2019). https://doi.org/10.1007/s12243-018-0679-7		Scopus	**1.33**
	Annamaria Sârbu,Paul Bechet, S Miclaus	3	Mobile phone user exposure assessment to UMTS and LTE signals at mobile data turn on by applying an original method	W. Yang, K. Zhou, P. Tan and X. Gao, "An effective method using duty cycles for assessment of exposure to mobile communication systems," in *IEEE Electromagnetic Compatibility Magazine*, vol. 8, no. 2, pp. 57-63, 2nd Quarter 2019, doi: 10.1109/MEMC.2019.8753444.		IEEE Explore	**1.33**
12.	Annamaria Paljanos,Călin Munteanu, Jolanta Karpowicz	3	Methodological challenges in near-field exposure assessment of personnel operating military radio equipment using personal exposimeters: Possible difficulties in compliance analysis	P. K. Joseph, D. Elangovan, G. Arunkumar and A. A. Zekry, "Overview of Different WPT Standards and a Simple Method to Measure EM Radiation of an Electric Vehicle Wireless Charger," *2019 IEEE MTT-S International Microwave and RF Conference (IMARC)*, 2019, pp. 1-8, doi: 10.1109/IMaRC45935.2019.9118690.		WOS	**2.67**
				Qin, D., & Sun, B. (2022). VHF/UHF Wideband Slim Monopole Antenna with Distributed Matching Structures. In C.-J. Wang (Ed.), International Journal of Antennas and Propagation (Vol. 2022, pp. 1–13). Hindawi Limited. https://doi.org/10.1155/2022/3369422		WOS	**2.67**

A 3.1 Citări în cărți, reviste și volume ale unor manifestări științifice							
Nr. crt.	**Autori**	**Nr autori**	**Titlul lucrării citate**	**Citat în lucrarea:**	**Obs.**	**Baza de date in care este citată**	**Punctaj**
13.	Annamaria Paljanos,Călin Munteanu	2	An Overview of Standards and Regulation Concerning Exposure to Radiofrequency Fields	C. Andriesei and C. Ţurcă, "Indirect characterisation of indoor RF EMF exposure to nearby mobile phone base stations," *2021 International Symposium on Signals, Circuits and Systems (ISSCS)*, 2021, pp. 1-4, doi: 10.1109/ISSCS52333.2021.9497368.		IEEE Explore	**2.00**
14.	Paljanos Annamaria,Munteanu Calin, Miclaus Simona	3	Near-field level emitted by professional radio communication devices: Preliminary measurements and simulations for an occupational exposure assessment approach	Jasman, M. R., Jamaludin, S. N. S., & Yusof, K. M. (2018). Near Field Radio Frequency Radiation Hazard on Military Armoured Vehicle - Approach to a Dose Assessment. *International Journal of Automotive and Mechanical Engineering*, *15*(4), 6052–6063. https://doi.org/10.15282/ijame.15.4.2018.24.0461		WOS	**2.67**
15.	Miclaus Simona,Paljanos Annamaria, Bechet Paul	3	Association between specific absorption rate values of mobile phones and their electromagnetic near-field levels	S. Miclaus and P. Bechet, "Comparative characterization of the electromagnetic near field radiated by mobile phones in GSM and UMTS communication technologies," *2014 International Conference and Exposition on Electrical and Power Engineering (EPE)*, 2014, pp. 471-475, doi: 10.1109/ICEPE.2014.6969952.		WOS	**2.67**
	Miclaus Simona,Paljanos Annamaria, Bechet Paul	3	Association between specific absorption rate values of mobile phones and their electromagnetic near-field levels	Stanic Mircea, Miclaus Simona, Bechet Paul, An analysis of the dynamics of electromagnetic near-field level of mobile phones during the call initiation period, 18th International Conference - The Knowledge-Based Organization: Applied technical sciences and advanced military technologies, conference proceeding 3, page 323-+, 2012		WOS	**2.67**
16.	Simona Miclăuş,Paul Bechet, Robert Helbet, Antoniu Miclaus, Annamaria Sarbu	5	Towards 5G Exposimetry: Instantaneous and Average Energy Density Accumulation Rate in Air near Wireless Devices Transmitting Data as Sub-Millisecond Frames	S. Miclaus, D. B. Deaconescu, D. Vatamanu and A. M. Buda, "The temporal imprint of mobile phone emission level when running various applications in 4G versus 5G networks," *2022 International Symposium on Electronics and Telecommunications (ISETC)*, Timisoara, Romania, 2022, pp. 1-4, doi: 10.1109/ISETC56213.2022.10010000.		IEEE Explore	**0.80**
				Kim, H., & Ben-Othman, J. (2023). BeneWinD: An Adaptive Benefit Win–Win Platform with Distributed Virtual Emotion Foundation. In Electronics (Vol. 12, Issue 17, p. 3540). MDPI AG. https://doi.org/10.3390/electronics12173540	Q2	WOS	**3.20**
17.	Paljanos Annamaria,Munteanu, Calin; Miclaus, Simona	3	Correlating electric and magnetic field strength with induced foot currents - occupational exposure assessment of personnel operating professional radio equipment	Digulescu, A., Despina-Stoian, C., Popescu, F., Stanescu, D., Nastasiu, D., & Sburlan, D. (2023). UWB Sensing for UAV and Human Comparative Movement Characterization. In Sensors (Vol. 23, Issue 4, p. 1956). MDPI AG. https://doi.org/10.3390/s23041956	Q2	WOS	**5.33**
						Total A3.1	**129.67**

A 3.2 Membru în colectivele de redacție sau comitetele științifice ale revistelor idexate ISI, chair, co-chair sau membru în colectivele de organizare a manifestărilor științifice internationale indexate ISI				
Nr. crt.	**Activitatea**	**Link**	**Observații**	**Punctaj**
1.	Editor număr special jurnal Electronics *New trends and methods in communication systems*	https://www.mdpi.com/journal/electronics/special_issues/communication_system	Jurnal ISI Q2	**10**
2.	Membru comitetul științific (Reviewer Board) al jurnalului Symmetry	https://www.mdpi.com/journal/symmetry/submission_reviewers	Jurnal ISI	**10**
			Total A3.2	**20**

A 3.3 Membru în colectivele de redacție sau comitetele științifice ale revistelor idexate BDI, chair, co-chair sau membru în colectivele de organizare a manifestărilor științifice internationale indexate BDI				
1.	Membru comitetrul științific al Internation Conference on Wireless Communication and Sensor Networks (icWCSN) 2023/2024	http://www.icwcsn.org/committee.html	Indexată ACM	**6**
			Total A3.3	**6**
			Total A3	**155.67**

Nr.crt.	**Domeniul de activitate**	**Condiții minimale – conf. ord. 6.129 din 20.12.2016- Anexa nr.11**	**Realizat cf. A1-A3**	**Observații**
A1	Activitate didactică profesională (A1)	50	105	Îndeplinit
A2	Activitate de cercetare (A2)	300	405,08	Îndeplinit
A3	Recunoașterea impactului activității (A3)	50	155,67	Îndeplinit
Total		400	665,75	Îndeplinit

Nr.crt.	Domeniul de activitate	Condiții minimale obligatorii pe subcategorii	Realizat cf A1-A3	Observații
A1.1.1-A 1.1.2	Cărți de specialitate	1 carte/capitol	3	Îndeplinit
A 2.1	Articole în reviste cotate ISI și în volumele unor manifestări științifice indexate ISI proceedings	6 din care minim 1 în reviste cotate ISI Q1 sau Q2	25 (A2.1 de la nr.crt. 1- la 25) din care 4 în jurnale Q1/Q2 (lucrările 2,4,10,11/ A2.1)	Îndeplinit
A2.4.1	Granturi/proiecte de cercetare câștigate prin competiție (Director/ Responsabil partener)	Minim 1	1 proiect în calitate de director de proiect (PN-III-P1-1.1-PD-2019-0500)	Îndeplinit
A3.1.1	Număr de citări în cărți, reviste cotate ISI și volume ale unor manifestări științifice ISI (WOS)	10	37	Îndeplinit
Factor de impact cumulat		4	23,44	Îndeplinit

Confirm că datele mai sus-menţionate sunt reale şi se referă la propria mea activitate profesională şi ştiinţifică.

05.01.2024

Mr.lect.univ.dr.

Annamaria SÂRBU