

Fișa de verificare

Numele și prenumele candidatului: Zagan Ionel
 Denumirea postului didactic: conferențiar, Poziția 12

Standarde minimale pentru ocuparea prin concurs a posturilor vacante ale universității:

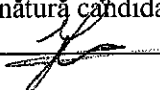
Nr. crt.	Denumire standard	Documentele care dovedesc îndeplinirea standardelor
1.	Doctor	Diplomă de Doctor, seria J Nr. 0030086, cf. ordin MEN nr. 5561 din 04.12.2017
2.	Media examenului de finalizare a studiilor	Diplomă de Inginer, seria E, Nr. 0007644, Media examenului de diplomă: 10 (zece)
3.	Pentru postul didactic de profesor universitar	-

Punctaj pentru performanțe didactice și cercetare științifică - conferențiar universitar

Nr. crt.	Denumire standard conform Ordinului MEN nr. 6129/2016	Documentele care dovedesc îndeplinirea standardelor	Punctaj
1.	Activitatea didactică și profesională (A1)	Conform Anexei 15 – Comisia CALCULATOARE, TEHNOLOGIA INFORMAȚIEI ȘI INGINERIA SISTEMELOR. Documentele doveditoare sunt prezentate în secțiunea A1 a fișei anexate, conform Ordinului MEN nr. 6129/2016.	155 p.
2.	Activitatea de cercetare (A2)	Conform Anexei 15 – Comisia CALCULATOARE, TEHNOLOGIA INFORMAȚIEI ȘI INGINERIA SISTEMELOR. Documentele doveditoare sunt prezentate în secțiunea A2 a fișei anexate, conform Ordinului MEN nr. 6129/2016.	933.7 p.
3.	Recunoașterea și impactului activității (A3)	Conform Anexei 15 – Comisia CALCULATOARE, TEHNOLOGIA INFORMAȚIEI ȘI INGINERIA SISTEMELOR. Documentele doveditoare sunt prezentate în secțiunea A3 a fișei anexate, conform Ordinului MEN nr. 6129/2016.	232.2 p.

TOTAL PUNCTAJ: 1320.9 puncte

Întocmit,
 Nume, prenume și semnătură candidat

ZAGAN IONEL 

Data,

15/01/2024

ANEXA LA FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE PREZENTARE LA CONCURS

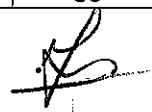
Ș.I. dr. ing. Zagan Ionel

Domeniul: Calculatoare, tehnologia informației și ingineria sistemelor (conform Anexei 15 a Ordinului MEN nr. 6129/2016)

Condiții minimale[Punctaj]	Minim prevăzut	Realizat
A1 - Activitatea didactică și profesională (A1)	50	155
A2 - Activitatea de cercetare (A2)	300	933.7
A3 - Recunoașterea impactului activității (A3)	50	232.2
Total	400	1320.9
Condiții minimale obligatorii pe subcategorii [Număr]		
A1.1.1 – A1.1.2 - Cărți de autor sau capitole de specialitate la edituri cu ISBN	1	2
A1.2.1 - Material didactic/ Lucrări didactice publicate la edituri cu ISBN	1	3
A2.1 Articole în reviste cotate ISI, și lucrări în volumele unor manifestări științifice indexate ISI	6 din care minimum 1 în reviste cotate ISI Q1 sau Q2	25 (9 in Q2 și Q1)
A2.4.1 – Granturi/proiecte de cercetare câștigate prin competiție (Director/Responsabil partener)	1	1
A3.1.1 – A3.1.2 – Citări în cărți, reviste și în volume ale unor manifestări științifice	10	45 (in WoS)
A3.1.1 – Factor de impact ISI cumulat pentru publicații	4	41

A1 - Activitatea didactică și profesională **155**

A1.1.1. Cărți și capitole în cărți de specialitate în edituri recunoscute		
Nr.	Denumire	Punctaj
1	<u>I. Zagan, "Contribuții la dezvoltarea sistemelor de operare în timp real cu funcții implementate în hardware", Editura Universității Ștefan cel Mare din Suceava, 2018, ISBN : 978-973-666-513-4</u>	50
2	<u>V. G. Găitan, I. Zagan, "Rețele industriale locale – Modbus Extins", Editura Universității Ștefan cel Mare din Suceava, 2019, ISBN : 978-973-666-552-3</u>	25
Total:		75
A1.2.1. Material didactic / Lucrări didactice		
Nr.	Denumire	Punctaj
1	<u>I. Zagan, "Titlul și subtitlul cărții: Îndrumar de laborator: Structura și Organizarea Calculatoarelor - SOC / Sisteme cu microprocesoare - SuP / Sisteme cu microprocesor - SuP", Editura Universității Ștefan cel Mare din Suceava, 2018, ISBN: 978-973-666-522-6</u>	40
2	<u>I. Zagan, V. G. Găitan, "Structura și Organizarea Calculatoarelor", Editura Universității Ștefan cel Mare din Suceava, 2019, ISBN: 978-973-666-553-0</u>	20
3	<u>I. Zagan, V. G. Găitan, "Microcontrolere", Editura Universității Ștefan cel Mare din Suceava, 2021, ISBN: 978-973-666-672-8</u>	20
Total:		80



A2.1 Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI Proceedings				
Nr.	Denumire	Nr. aut.	Fact. Imp.	Punctaj
1	I. Zagan, V. G. Găitan, "Improving the Performances of the nMPRA Processor using a Custom Interrupt Management Scheduling Policy", Advances in Electrical and Computer Engineering (AECE), Volume 16, Issue 4, 30/11/2016, pp. 45-50.	2	0.8	24.5
2	I. Zagan, V. G. Găitan, "Improving the performance of CPU architectures by reducing the Operating System overhead (Extended Version)", The Scientific Journal of Riga Technical University - Electrical, Control and Communication Engineering, ISSN: 2255-9140 (print), Iulie 2016, vol. 10, pp. 13-22, doi: 10.1515/ecce-2016-0002.	2	0.7	23
3	N. C. Găitan, V. G. Găitan, I. Ungurean, I. Zagan, "Methods to improve the performances of the real-time operating systems for small microcontrollers", 20th International Conference on Control Systems and Computer Science (CSCS), București, România, 27-29 Mai 2015, ISBN: 978-1-4799-1779-2, doi: 10.1109/CSCS.2015.10, pp. 261-266.	4	0.25	8.125
4	I. Zagan, "Improving the performance of CPU architectures by reducing the Operating System overhead", The 3rd IEEE Workshop on Advances in Information, Electronic and Electrical Engineering AIEEE'2015, Vol., No., pp.1-6, 13 - 14 Noiembrie 2015, Riga, Lituania, doi: 10.1109/AIEEE.2015.7367279.	1	0.25	32.5
5	I. Zagan, V. G. Găitan, "Schedulability Analysis of nMPRA Processor based on Multithreaded Execution", 13th International Conference on Development and Application Systems (DAS), Suceava, România, 19-21 Mai, 2016, doi: 10.1109/DAAS.2016.7492561.	2	0.25	16.25
6	I. Zagan, N. C. Găitan, V. G. Găitan, "An Approach of nMPRA Architecture using Hardware Implemented Support for Event Prioritization and Treating", International Journal of Advanced Computer Science and Applications (IJACSA), vol. 8, nr. 2, doi: 10.14569/IJACSA.2017.080206, 2017.	3	0.9	17.33
7	I. Zagan, V. G. Găitan, A. Petrariu, A. Brezilianu, "Healthcare IoT m-GreenCARDIO Remote Cardiac Monitoring System – Concept, Theory of Operation and Implementation", Advances in Electrical and Computer Engineering (AECE), vol. 17, nr. 2, Mai 2017, doi: 10.4316/AECE.2017.02004, Factor Impact 2016: 0.595.	4	0.8	12.25
8	I. Zagan, V. G. Găitan, "Implementation of nMPRA CPU Architecture based on Preemptive Hardware Scheduler Engine and Different Scheduling Algorithms", IET Computers & Digital Techniques, vol. 11, nr. 6, Noiembrie 2017, pp. 221-230, doi:10.1049/iet-cdt.2017.0163. Factor Impact: 0.515.	2	1.2	30.5
9	I. Zagan, V. G. Găitan, N. Iuga and A. Brezilianu, "m-GreenCARDIO embedded system designed for out-of-hospital cardiac patients," 2018 International Conference on Development and Application Systems (DAS), Suceava, 2018, pp. 11-17. doi: 10.1109/DAAS.2018.8396063. IEEE	4	0.25	8.125
10	I. Zagan "Synthesis analysis and evaluation of hardware scheduler based on different scheduling algorithms," 2018 International Conference on Development and Application Systems (DAS), Suceava, 2018, pp. 18-25.	1	0.25	32.5

	doi: 10.1109/DAAS.2018.8396064 IEEE			
11	I. Zagan, V. G. Gaitan, "Hardware RTOS: Custom Scheduler Implementation Based on Multiple Pipeline Registers and MIPS32 Architecture," Electronics, Section: Computer Science & Engineering, Special Issue: New Applications and Architectures Based on FPGA/SoC, Volume 8, Issue 2, February 2019, doi: 10.3390/electronics8020211.	2	2.9	56
12	I. Zagan, V. G. Găitan; "Improving the performance of Real-Time Event Processing based on Preemptive Scheduler FPGA Implementation," DAS2020 - 15th International Conference on Development and Application, Systems, 21-23 Mai 2020, Suceava, Romania, WOS:000589776100009	2	0.25	16.25
13	ZAGAN, Ionel; TĂNASE, Cristian Andy; GAITAN, Vasile Gheorghita; "Hardware Real-time Event Management with Support of RISC-V Architecture for FPGA-Based Reconfigurable Embedded Systems", Advances in Electrical and Computer Engineering, Issue 1/2020, 29 Feb. 2020, Factor Impact: 1.102, doi:10.4316/AECE.2020.01009, WOS:000518392600009	3	0.8	16.33
14	ZAGAN, Ionel; GAITAN, Vasile Gheorghita; PETRARIU, Adrian-Ioan; IUGA, Nicolai; BREZULIANU, Adrian. "Design, Fabrication, and Testing of an IoT Healthcare Cardiac Monitoring Device", Computers 2020, vol. 9, issue 1, ISSN 2073-431X, doi: 10.3390/computers9010015, WOS:000524291600013	5	2.8	21.8
15	N. C. Găitan, I. Zagan, V. G. Găitan, "Predictable CPU Architecture Designed for Small Real-Time Application - Concept and Theory of Operation", International Journal of Advanced Computer Science and Applications (IJACSA), 6(4). DOI: 10.14569/IJACSA. 2015. 060406, U.S ISSN: 2156-5570(Online), pp. 47-52, 2015.	3	0.9	17.33
16	ZAGAN, Ionel; GAITAN, Vasile Gheorghita; "Real-Time Event Handling and Preemptive Hardware RTOS Scheduling on a Custom CPU Implementation," Canadian Journal of Electrical and Computer Engineering, Volume: 43, Issue: 4, October 2020, Factor Impact: 1.53, doi: 10.1109/CJECE.2020.3005360. WOS:000583696600007	2	1.7	38
17	GAITAN, Vasile Gheorghita; ZAGAN, Ionel; "Experimental Implementation and Performance Evaluation of an IoT Access Gateway for the Modbus Extension," SENSORS, Volume 21, Issue 1, DOI: 10.3390/s21010246, JAN 2021, WOS:000606277400001	2	3.9	71
18	GAITAN, Vasile Gheorghita; ZAGAN, Ionel; "An Overview of the nMPRA and nHSE Microarchitectures for Real-Time Applications," SENSORS, Volume 21, Issue 13, DOI: 10.3390/s21134500, JUL 2021, WOS:000671116200001	2	3.9	71
19	COROTINSCHI, Ghenadie; FRANCU, Catalin; ZAGAN, Ionel; GAITAN, Vasile Gheorghita; "IoT Connectivity Application for Smart Building based on Analysis and Prediction System", INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND NETWORK SECURITY, Volume2, Issue 9, Page 103-108, SEP 30 2021, DOI: 10.22937/IJCSNS.2021.21.9.13, ISSN:1738-7906, WOS:000708805900013	4	0	6.25
20	ZAGAN, Ionel; GAITAN, Vasile Gheorghita; "Designing a Custom CPU Architecture Based on Hardware RTOS and Dynamic Preemptive Scheduler," Mathematics 2022, 10, 2637, https://doi.org/10.3390/math10152637 Q1	2	2.4	48.5
21	ZAGAN, Ionel; GAITAN, Vasile Gheorghita; Enhancing the Modbus Communication Protocol to Minimize Acquisition Times	2	2.4	48.5

	Based on an STM32-Embedded Device. Mathematics 2022, 10, 4686. https://doi.org/10.3390/math10244686			
22	ZAGAN, Ionel; GAITAN, Vasile Gheorghita; " <u>Modbus Protocol Performance Analysis in a Variable Configuration of the Physical Fieldbus Architecture,</u> " in IEEE Access, vol. 10, pp. 123942-123955, 2022, doi: 10.1109/ACCESS.2022.3224720.	2	3.9	71
23	ZAGAN, Ionel; GAITAN, Vasile Gheorghita; " <u>Soft-Core processor integration based on different instruction set architectures and field programmable gate array custom datapath implementation</u> ", in PeerJ Computer Science,	2	3.8	69.5
24	ZAGAN, Ionel; GAITAN, Vasile Gheorghita; " <u>FPGA Implementation of Hardware Accelerated RTOS based on Real-Time Event Handling</u> ", in The Journal of Supercomputing,	2	3.3	62
25	ZAGAN, Ionel; GAITAN, Vasile Gheorghita; " <u>Custom Soft-Core RISC Processor Validation Based on Real-Time Event Handling Scheduler FPGA Implementation,</u> " in IEEE Access, vol. 11, pp. 36264-36280, 2023, doi: 10.1109/ACCESS.2023.3266150.,	2	3.9	71
Total:				889.54

A2.2 Articole în reviste cotate și în volumele unor manifestări științifice indexate în baze de date internaționale (BDI)

Nr.	Denumire	Nr. aut.	Punctaj
1	I. Zagan, V. G. Gaitan, " <u>Hardware Scheduler Implementation based on Replicated Resource Architecture for Reconfigurable Systems,</u> " 2019 3rd International Symposium on Computer Science and Intelligent Control (ISCSIC2019), 25-27 Sept. 2019, Amsterdam, Netherlands. Indexat ACM.	2	10
2	IUGA, Nicolai; ZAGAN, Ionel; GAITAN, Vasile Gheorghita; " <u>CPU Execution Time Analysis based on RISC-V ISA Simulators: A Survey</u> ", 2022 International Conference on Development and Application Systems (DAS), Suceava, România, 26-28 May, 2022, https://doi.org/10.1109/DAS54948.2022.9786163	2	10
Total:			20

A2.4.1.2 Granturi / proiecte naționale câștigate prin competiție - Director proiect

Nr.	Denumire	Ani	Punctaj
1	CENTRIC DIGI-TOUCH, „Centru pentru transferul de cunoștințe către întreprinderi din domeniul ICT – CENTRIC”, Cod competiție POC-A1-A1.2.3-G-2015, Cod SMIS 2014+ 119722 (ID P 40 305), Contract de finanțare nr. 5/AXA 1/1.2.3/G/13.06.2018, Contract subsidiar nr. 21773/04.10.2022/ DGI-TOUCH / S.C. Fragar Trading S.R.L, Director / Responsabil partener	(7 luni)	5.83
Total:			5.83

A2.4.2.2 Granturi / proiecte naționale câștigate prin competiție - Membru în echipă

Nr.	Denumire	Ani	Punctaj
1	Proiect MANSID, POSCCE, Axa prioritara 2, "Centrul integrat de cercetare, dezvoltare și inovare pentru Materiale Avansate, Nanotehnologii și Sisteme Distribuite de fabricație și control (MANSID)", cercetator, http://mansid.usv.ro/laborator_08.html	2	4
2	Dezvoltarea și integrarea unui tele-electrocardiograf mobil in cadrul sistemului GreenCARDIO© de monitorizare și diagnoză a pacienților"	0.25 (3 luni)	0,5

	(acronim m-GreenCARDIO), cod PN-III-P2-2.1-BG-2016-0463, 58BG din 30/09/2016, (PN-III-P2-2.1-BG-2016-0463), Bridge Grant (Transfer de cunoaștere la agentul economic), Director: prof.dr.ing. Vasile GĂITAN, http://www.mgreencardio.usv.ro		
3	Dispozitiv experimental demonstrativ pentru validarea și testarea microcontrolerului nMPRA de timp real utilizând arhitectura MIPS32 (acronim DEVMCREALTIME), cod PN-III-P2-2.1-PED-2016-1473, PED220 din 17/08/2017, Proiect experimental demonstrativ (PED), Director: ș.l. dr. ing. Nicoleta Cristina Gaitan, http://www.mips32-220ped.usv.ro/ , membru în echipa de implementare	(18 luni)	3
4	Demonstrator experimental de laborator bazat pe nHSE – sistem de operare de timp real integrat în hardware - implementat pe o arhitectură ZScale - RISC V, cod PN-III-P2-2.1-PED-2016-1460, PED219 din 17/08/2017, Proiect experimental demonstrativ (PED), Director: Director: prof.dr.ing. Vasile GĂITAN http://www.riscv-219ped.usv.ro/ , membru în echipa de implementare	(12 luni)	2
5	CENTRIC CrioDrive, „Centru pentru transferul de cunoștințe către întreprinderi din domeniul ICT – CENTRIC”, Cod competiție POC-A1-A1.2.3-G-2015, Cod SMIS 2014+ 119722 (ID P_40_305), Contract de finanțare nr. 5/AXA 1/1.2.3/G/13.06.2018, Contract subsidiar nr. 15682/02.09.2020/CrioDrive/Mechatronics Innovation Center, membru în echipa de implementare	(24 luni)	4
6	CENTRIC DIW-PADCU, „Centru pentru transferul de cunoștințe către întreprinderi din domeniul ICT – CENTRIC”, Cod competiție POC-A1-A1.2.3-G-2015, Cod SMIS 2014+ 119722 (ID P_40_305), Contract de finanțare nr. 5/AXA 1/1.2.3/G/13.06.2018, Contract subsidiar nr. 15567/01.09.2020/DIW-PADCU/ Fragar Trading, membru în echipa de implementare	(24 luni)	4
7	NetZeRoCities - 760007/30.12.2022 National Competence Center and solutions for the development of Climate Neutral and Smart Cities.	(8 luni)	1.33
Total:			18.33

A3 - Recunoașterea și impactul activității

232.2

A3.1.1 Citări în cărți, reviste și volume ale unor manifestări științifice – cărți, ISI			
Nr.	Denumire	Nr. aut. art. citat	Punc-taj
1	Articolul A2.1_1 citat de: Gaitan, Nicoleta Cristina. "Enhanced Interrupt Response Time in the nMPRA based on Embedded Real Time Microcontrollers" ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, Volume: 17, Issue: 3, Pages: 77-84. http://www.aece.ro/abstractplus.php?year=2017&number=3&article=10	2	4
2	Articolul A2.1_1 citat de: Gaitan, Nicoleta Cristina; Ungurean, Ioan, "Software vs Hardware Implementations for Real-Time Operating Systems", INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS Volume: 9 Issue: 12 Pages: 42-45 Published: DEC 2018	2	4
3	Articolul A2.1_1 citat de: Ciobanu, Elena-Eugenia, "The Events Priority in the nMPRA and Consumption of Resources Analysis on the FPGA", ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING Volume: 18 Issue: 1 Pages: 137-144 Published: 2018	2	4

4	Articolul A2.1_5 citat de: Gaitan, Nicoleta Cristina. " <u>Enhanced Interrupt Response Time in the nMPRA based on Embedded Real Time Microcontrollers</u> " <u>ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING</u> , Volume: 17, Issue: 3, Pages: 77-84. http://www.aece.ro/abstractplus.php?year=2017&number=3&article=10	2	4
5	Articolul A2.1_5 citat de: Sim, MT and Perera, DG, " <u>A Fast and Secure Pipelined Barrel Processor for Safety-Critical Applications for Real-Time Operating Systems</u> ", <u>IEEE 10th Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (UEMCON)</u> , 2019	2	4
6	Articolul A2.1_5 citat de: Sim, MT and Zhuang, YY, " <u>A Dual Lockstep Processor System-on-a-Chip for Fast Error Recovery in Safety-Critical Applications</u> ", <u>46th Annual Conference of the IEEE-Industrial-Electronics-Society (IECON)</u> , 2020	2	4
7	Articolul A2.1_5 citat de: Sim, MT, " <u>Boosting CPU Performance using Pipelined Branch and Jump Folding Hardware with Turbo Module</u> ", <u>2021 IEEE 14TH INTERNATIONAL SYMPOSIUM ON EMBEDDED MULTICORE/MANY-CORE SYSTEMS-ON-CHIP (MCSOC 2021)</u> , pp.359-365	2	4
8	Articolul A2.1_5 citat de: Eni, Y; Greenberg, S and Ben-Shimol, Y, " <u>Efficient Hint-Based Event (EHE) Issue Scheduling for Hardware Multithreaded RISC-V Pipeline</u> ", <u>IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-REGULAR PAPERS</u> 69 (2), 2022, Q2	2	8
9	Articolul A2.1_8 citat de: Ciobanu, Elena-Eugenia, " <u>The Events Priority in the nMPRA and Consumption of Resources Analysis on the FPGA</u> ", <u>ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING</u> Volume: 18 Issue: 1 Pages: 137-144 Published: 2018	2	4
10	Articolul A2.1_8 citat de: Gaitan, NC and Ungurean, I, " <u>Software vs Hardware Implementations for Real-Time Operating Systems</u> ", <u>INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS</u> 9 (12), pp.42-45, 2018	2	4
11	Articolul A2.1_8 citat de: Taheri, Golnaz; Khonsari, Ahmad; Entezari-Maleki, Reza; Sousa, Leonel: " <u>Temperature-aware core management in MPSoCs: modelling and evaluation using MRMs</u> ", <u>IET Computers & Digital Techniques</u> , 2020, 14, (1), p. 17-26, DOI: 10.1049/iet-cdt.2018.5131 IET Digital Library, https://digital-library.theiet.org/content/journals/10.1049/iet-cdt.2018.5131	2	4
12	Articolul A2.1_11 citat de: Sherratt, R.S.; Janko, B.; Hui, T.; Harwin, W.S.; Dey, N.; Díaz-Sánchez, D.; Wang, J.; Shi, F. " <u>Task Scheduling to Constrain Peak Current Consumption in Wearable Healthcare Sensors</u> ". <u>Electronics</u> 2019, 8, 789.	2	8
13	Articolul A2.1_11 citat de: Bravo-Munoz, I; Gardel-Vicente, A and Lazaro-Galilea, JL, " <u>New Applications and Architectures Based on FPGA/SoC</u> ", <u>2020 ELECTRONICS</u> 9 (11),	2	8
14	Articolul A2.1_11 citat de: Kangunde, V., Jamisola, R.S. & Theophilus, E.K. " <u>A review on drones controlled in real-time</u> . <u>Int. J. Dynam. Control</u> 9, 1832–1846 (2021). https://doi.org/10.1007/s40435-020-00737-5	2	4
15	Articolul A2.1_9 citat de: Serhani, M.A.; T. El Kassabi, H.; Ismail, H.; Nujum Navaz, A. " <u>ECG Monitoring Systems: Review, Architecture, Processes, and Key</u>	4	4

	Challenges. Sensors 2020, 20, 1796.		
16	Articolul A2.1_9 citat de: Zhu, L; Lu, N and Liu, DX, <u>Hospital internet of things system design and captopril treatment of hypertension nursing intervention</u> , MICROPROCESSORS AND MICROSYSTEMS 82, 2021	4	4
17	Articolul A2.1_9 citat de: Pham, B.-T.; Le, P.T.; Tai, T.-C.; Hsu, Y.-C.; Li, Y.-H.; Wang, J.-C. <u>Electrocardiogram Heartbeat Classification for Arrhythmias and Myocardial Infarction</u> . Sensors 2023, 23, 2993. https://doi.org/10.3390/s23062993	4	4
18	Articolul A2.1_9 citat de: Albahri, AS; Alwan, JK; (...); Alsalem, MA, " <u>IoT-based telemedicine for disease prevention and health promotion: State-of-the-Art</u> ", JOURNAL OF NETWORK AND COMPUTER APPLICATIONS, 2021, (IF: 6.281) Q1	4	4
19	Articolul A2.1_10 citat de: T. Tu, J. Song and Q. Jia, " <u>A Research on Weight Adjustable Dynamic Scheduling Strategy</u> ," 2019 IEEE 8th Joint International Information Technology and Artificial Intelligence Conference (ITAIC), Chongqing, China, 2019, pp. 1320-1323, doi: 10.1109/ITAIC.2019.8785518.	1	8
20	Articolul A2.1_7 citat de: Hussain, S and Deb, S, <u>A Study on Securing Data in Smart Healthcare Applications</u> , 7th IEEE International Symposium on Smart Electronic Systems (IEEE-iSES), 2021	4	2
21	Articolul A2.1_7 citat de: Arpaia, P; Bonavolonta, F; (...); Moccaldi, N, " <u>Power Measurement-Based Vulnerability Assessment of IoT Medical Devices at Varying Countermeasures for Cybersecurity</u> ", 2021 IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, Q1	4	4
22	Articolul A2.1_7 citat de: Albahri, AS; Alwan, JK; (...); Alsalem, MA, " <u>IoT-based telemedicine for disease prevention and health promotion: State-of-the-Art</u> ", JOURNAL OF NETWORK AND COMPUTER APPLICATIONS, 2021 Q1	4	4
23	Articolul A2.1_7 citat de: Mehmet TAŞTAN, " <u>Internet of things based smart energy management for smart home</u> ", in KSII Transactions on Internet & Information Systems, 2019/6/1, http://doi.org/10.3837/tiis.2019.06.001	4	2
24	Articolul A2.1_7 citat de: N. AlMansour and S. Saeed, " <u>IoT Based Healthcare Infrastructure: A Case Study of Saudi Arabia</u> ," 2019 International Conference on Computer and Information Sciences (ICCIS), Sakaka, Saudi Arabia, 2019, pp. 1-7, doi: 10.1109/ICCISci.2019.8716419.	4	1
25	Articolul A2.1_7 citat de: Ali Behmanesh, Nasrin Sayfour, Farahnaz Sadoughi, " <u>Technological Features of Internet of Things in Medicine: A Systematic Mapping Study</u> ", Wireless Communications and Mobile Computing, vol. 2020, Article ID 9238614, 27 pages, 2020. https://doi.org/10.1155/2020/9238614	4	2
26	Articolul A2.1_7 citat de: F Sadoughi, A Behmanesh, N Sayfour, <u>Internet of things in medicine: a systematic mapping study</u> - Journal of Biomedical Informatics, 2020 – Elsevier (Q2)	4	4
27	Articolul A2.1_7 citat de: Wided Moulahi, Imen Jdey, Tarek Moulahi, Moatsum Alawida, Abdulatif Alabdulatif, <u>A blockchain-based federated learning mechanism for privacy preservation of healthcare IoT data</u> , Computers in Biology and Medicine, Volume 167, 2023, 107630, ISSN 0010-4825, https://doi.org/10.1016/j.compbiomed.2023.107630 , (Q1).	4	4
28	Articolul A2.1_14 citat de Kubiak, I (Kubiak, Ireneusz) ; Przybysz, A (Przybysz, Artur); Musial, S	5	1.6

	(Musial, Slawomir), <u>Possibilities of Electromagnetic Penetration of Displays of Multifunction Devices</u> , , COMPUTERS		
29	Articolul A2.1_14 citat de Renold, AP and Kumar, KVR, <u>Design of Internet of Things enabled personalized healthcare device for vital signs monitoring</u> , 2022 14 (5) , pp.375-384, JOURNAL OF AMBIENT INTELLIGENCE AND SMART ENVIRONMENTS	5	1.6
30	Articolul A2.1_14 citat de: Umar, U (Umar, Umara) [1] ; Nayab, S (Nayab, Sanam) [1] ; Irfan, R (Irfan, Rabia) [1] ; Khan, MA (Khan, Muazzam A.) [2] ; Umer, A (Umer, Amna) [3], <u>"E-Cardiac Care: A Comprehensive Systematic Literature Review"</u> , Sensors, DOI10.3390/s22208073, 2022	5	3.2
31	Articolul A2.1_14 citat de Tayyaba, S; Ashraf, MW; (...); Afzulpurkar, N, <u>"Fabrication and Analysis of Polydimethylsiloxane (PDMS) Microchannels for Biomedical Application"</u> , Jan 2021 PROCESSES 9 (1), IF: 2.847	5	3.2
32	Articolul A2.1_15 citat de: Derafshi, D (Derafshi, Danesh)[1] ; Norollah, A (Norollah, Amin)[1] ; Khosroanjam, M (Khosroanjam, Mohsen)[1] ; Beitollahi, H (Beitollahi, Hakem)[1], HRHS: A High-Performance Real-Time Hardware Scheduler, IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS, 2020 (Q2)	3	5.3
33	Articolul A2.1_18 citat de: Adam, GK, <u>"Co-Design of Multicore Hardware and Multithreaded Software for Thread Performance Assessment on an FPGA"</u> , Computers, 2022	2	4
34	Articolul A2.1_12 citat de: L. Kohútka, <u>"Scheduling Periodic Real-Time Tasks with Inter-Task Synchronisation"</u> , 2022 11th Mediterranean Conference on Embedded Computing (MECO), Budva, Montenegro, 2022, pp. 1-4, doi: 10.1109/MECO55406.2022.9797213.	2	4
35	Articolul A2.1_12 citat de: Norollah, A; Kazemi, Z; (...); Hely, D, <u>"Efficient Scheduling of Dependent Tasks in Many-Core Real-Time System Using a Hardware Scheduler"</u> , 2021 IEEE HIGH PERFORMANCE EXTREME COMPUTING CONFERENCE (HPEC)	2	4
36	Articolul A2.1_17 citat de: Nankya, M.; Chataut, R.; Akl, R. <u>Securing Industrial Control Systems: Components, Cyber Threats, and Machine Learning-Driven Defense Strategies</u> . Sensors 2023, 23, 8840. https://doi.org/10.3390/s23218840	2	4
37	Articolul A2.1_17 citat de: Jiao, Z.; Du, X.; Liu, Z.; Liu, L.; Sun, Z.; Shi, G.; Liu, R. <u>A Review of Theory and Application Development of Intelligent Operation Methods for Large Public Buildings</u> . Sustainability 2023, 15, 9680. https://doi.org/10.3390/su15129680	2	4
38	Articolul A2.1_17 citat de: Božek, A.; Rzonca, D. <u>Communication Time Optimization of Register-Based Data Transfer</u> . Electronics 2023, 12, 4917. https://doi.org/10.3390/electronics12244917	2	4
39	Articolul A2.1_21 citat de: Božek, A.; Rzonca, D. <u>Communication Time Optimization of Register-Based Data Transfer</u> . Electronics 2023, 12, 4917. https://doi.org/10.3390/electronics12244917	2	4
40	Articolul A2.1_22 citat de: Božek, A.; Rzonca, D. <u>Communication Time Optimization of Register-Based Data Transfer</u> . Electronics 2023, 12, 4917. https://doi.org/10.3390/electronics12244917	2	4
41	Articolul A2.1_3 citat de:	4	2

	M. T. Sim and D. G. Perera, "A Fast and Secure Pipelined Barrel Processor for Safety-Critical Applications for Real-Time Operating Systems," 2019 IEEE 10th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON), New York City, NY, USA, 2019, pp. 0894-0904, doi: 10.1109/UEMCON47517.2019.8992989.		
42	Articolul A2.1_7 citat de: Farahnaz Sadoughi, Ali Behmanesh, Nasrin Sayfour, <u>Internet of things in medicine: A systematic mapping study</u> , Journal of Biomedical Informatics, Volume 103, 2020, 103383, ISSN 1532-0464, https://doi.org/10.1016/j.jbi.2020.103383 .	4	4
43	Articolul A2.1_7 citat de: A. I. Petrariu, A. Lavric and E. Coca, " <u>Renewable Energy Powered LoRa-based IoT Multi Sensor Node</u> ," 2019 IEEE 25th International Symposium for Design and Technology in Electronic Packaging (SIITME), Cluj-Napoca, Romania, 2019, pp. 94-97, doi: 10.1109/SIITME47687.2019.8990693.	4	2
Total:		169.9	

A3.1.2 Citări în cărți, reviste și volume ale unor manifestări științifice – BDI			
Nr.	Denumire	Nr. aut. art. citat	Punctaj
1	Articolul A2.1_7 citat de: N. Renugadevi, S. Saravanan, C.M. Naga Sudha, <u>Revolution of Smart Healthcare Materials in Big Data Analytics</u> , Materials Today: Proceedings, Volume 81, Part 2, 2023, Pages 834-841, ISSN 2214-7853, https://doi.org/10.1016/j.matpr.2021.04.256 .	4	1
2	Articolul A2.1_7 citat de: Wided Moulahi, Imen Jdey, Tarek Moulahi, Moatsum Alawida, Abdulatif Alabdulatif, <u>A blockchain-based federated learning mechanism for privacy preservation of healthcare IoT data</u> , Computers in Biology and Medicine, Volume 167, 2023, 107630, ISSN 0010-4825, https://doi.org/10.1016/j.compbiomed.2023.107630 .	4	1
3	Articolul A2.1_5 citat de: M. T. Sim and Q. Yi, " <u>An Adaptive Multitasking Superscalar Processor</u> ," 2019 IEEE 5th International Conference on Computer and Communications (ICCC), Chengdu, China, 2019, pp. 1293-1299, doi: 10.1109/ICCC47050.2019.9064185.	2	2
4	Articolul A2.1_3 citat de: M. T. Sim and Q. Yi, " <u>An Adaptive Multitasking Superscalar Processor</u> ," 2019 IEEE 5th International Conference on Computer and Communications (ICCC), Chengdu, China, 2019, pp. 1293-1299, doi: 10.1109/ICCC47050.2019.9064185..	4	1
5	Articolul A2.1_3 citat de: M. T. Sim and Q. Yi, " <u>An Adaptive Overlap-Pipelined Multitasking Superscalar Processor</u> ," 2020 IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS), Vancouver, BC, Canada, 2020, pp. 1-7, doi: 10.1109/IEMTRONICS51293.2020.9216450.	4	1
6	Articolul A2.1_17 citat de: Ayala, A.F.R., Martínez, D.J.R., Giral-Ramírez, D.A., <u>A REVIEW OF COMMUNICATION PROTOCOLS IN POWER SYSTEMS</u> , Journal of Theoretical and Applied Information Technology Volume 100, Issue 20, Pages 6104 - 611631 October 2022	2	2
7	Articolul A2.1_17 citat de: Zechao Liu, Tao Liang, Wenshan Wang, Ruochen Sun, Sizhao Li, " <u>Design and Implementation of a Lightweight Security-Enhanced Scheme for Modbus TCP Protocol</u> ", Security and Communication	2	2

	Networks, vol. 2023, Article ID 5486566, 12 pages, 2023. https://doi.org/10.1155/2023/5486566		
8	Articolul A2.1_17 citat de: Peñafiel-Espinoza J., Pupiales-Yépez C., Moreira-Zambrano C., Michilena-Calderón J., Cuzme-Rodríguez F. <u>Monitoring system for the acquisition of electrical system data via SMS messaging for Higher Education data centers [Sistema de monitoreo para adquisición de datos de sistemas eléctricos vía mensajes SMS para centros de datos de Educación Superior]</u> (2023) RISTI - Revista Iberica de Sistemas e Tecnologias de Informacao, 2023 (Special Issue E61), pp. 378 - 394 https://www.scopus.com/inward/record.uri?eid=2-s2.0-85172474389&partnerID=40&md5=3586561ca03a3b1f8660c5975b77ff0e	2	2
9	Articolul A2.1_18 citat de: Nitesh Gaikwad, Dr. Shiyamala. S, " <u>Design and Development of Microarchitecture for Dynamic IoT Communication,</u> " International Journal of Engineering Trends and Technology, vol. 69, no. 11, pp. 1-8, 2021. Crossref, https://doi.org/10.14445/22315381/IJETT-V69I11P201 .	2	2
10	Articolul A2.1_22 citat de: C. -Y. Liu and Y. -J. Chen, " <u>A Protocol Implementation of Uploading Data on Real Time,</u> " 2023 5th International Conference on Computer Communication and the Internet (ICCCI), Fujisawa, Japan, 2023, pp. 73-82, doi: 10.1109/ICCCI59363.2023.10210181.	2	2
11	Articolul A2.2_6 citat de: Vishwanath, Y., Desai, K., Upendra, R.S., Prasad, V., Suvanam, S.B., Biradar, A., Supreeth, S. and Rohith, S., 2023. <u>Performance Evaluation of Integrated Hard Real-Time Application and RISC V Processor for Spacecraft on Board Software Application.</u> International Journal of Intelligent Systems and Applications in Engineering, 11(3), pp.810-817.	3	1.3
12	Articolul A2.1_17 citat de: Kuzmin, V.N., Menisov, A.B., <u>A study of ways and solutions to increase the efficiency of detecting computer attacks on the objects of critical information infrastructure,</u> 2022, Informatsionno-Upravliaiushchie Sistemy, (4), pp. 29-43	2	2
13	Articolul A2.1_17 citat de: Ventuneac, C., Gaitan, V.G., Lupu, C., <u>Improving ModBus Extension performance using PRU unit from Sitara AM335x,</u> 2022, 2022 16th International Conference on Development and Application Systems, DAS 2022 - Proceedings pp. 73-77	2	2
14	Articolul A2.1_17 citat de: Zhou, H., Song, J., Pu, X., <u>The Design of a Novel Modbus TCP/RTU Gateway for High Reliable Communication,</u> 2022, Proceedings - 24th IEEE International Conference on High Performance Computing and Communications, 8th IEEE International Conference on Data Science and Systems, 20th IEEE International Conference on Smart City and 8th IEEE International Conference on Dependability in Sensor, Cloud and Big Data Systems and Application, HPCC/DSS/SmartCity/DependSys 2022 pp. 2039-2042	2	2
15	Articolul A2.1_17 citat de: CHEN Dong, ZHANG Xiang, CHEN Nengcheng. <u>Smart City Awareness Base Station: A Prospective Integrated Sensing Infrastructure for Future Cities</u> [J]. Geomatics and Information Science of Wuhan University, 2022, 47(2): 159-180. DOI: 10.13203/j.whugis20210224	2	2
16	Articolul A2.1_17 citat de: Zechao Liu, Tao Liang, Wenshan Wang, Ruochen Sun, Sizhao Li, " <u>Design and Implementation of a Lightweight Security-Enhanced</u>	2	2

	<u>Scheme for Modbus TCP Protocol</u> ", Security and Communication Networks, vol. 2023, Article ID 5486566, 12 pages, 2023. https://doi.org/10.1155/2023/5486566		
17	Articolul A2.1_17 citat de: V. G. Vasilopoulos et al., " <u>An IoT M2M Architecture for BMS Using Multiple Connectivity Technologies: A Practical Approach</u> ," 2021 6th International Conference on Smart and Sustainable Technologies (SpliTech), Bol and Split, Croatia, 2021, pp. 1-6, doi: 10.23919/SpliTech52315.2021.9566336.	2	2
18	Articolul A2.1_14 citat de: Mohd Javaid, Abid Haleem, Ravi Pratap Singh, Shanay Rab, Mir Irfan Ul Haq, Ankush Raina, <u>Internet of Things in the global healthcare sector: Significance, applications, and barriers</u> , International Journal of Intelligent Networks, Volume 3, 2022, Pages 165-175, ISSN 2666-6030, https://doi.org/10.1016/j.ijin.2022.10.002 .	2	2
19	Articolul A2.1_14 citat de: Aruna, M., Ananda Kumar, S., Arthi, B., Ghosh, U. (2022). <u>Smart Security for Industrial and Healthcare IoT Applications</u> . In: Ghosh, U., Chakraborty, C., Garg, L., Srivastava, G. (eds) Intelligent Internet of Things for Healthcare and Industry. Internet of Things. Springer, Cham. https://doi.org/10.1007/978-3-030-81473-1_1 .	2	2
20	Articolul A2.1_14 citat de: Osama Rehman, Zaron Farrukh, Asiya Al-Busaidi, Kyungjin Cha, Simon Park, and Ibrahim Rahman. 2021. <u>IoT Powered Cancer Observation System</u> . In The 9th International Conference on Smart Media and Applications (SMA 2020). Association for Computing Machinery, New York, NY, USA, 313–318. https://doi.org/10.1145/3426020.3426111	2	2
21	Articolul A2.1_14 citat de: S. M. A. Helmy, M. Alfonse, A. M. Amar and E. -S. M. El-Horbaty, " <u>Internet of Things (IoT) for cardiac patients: A comparative study</u> ," 2021 Tenth International Conference on Intelligent Computing and Information Systems (ICICIS), Cairo, Egypt, 2021, pp. 297-302, doi: 10.1109/ICICIS52592.2021.9694181.	2	2
22	Articolul A2.1_14 citat de: Nguyen, T.H. et al. (2021). <u>Smart Shoe Based on Battery-Free Bluetooth Low Energy Sensor</u> . In: Vo, NS., Hoang, VP., Vien, QT. (eds) Industrial Networks and Intelligent Systems. INISCOM 2021. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 379. Springer, Cham. https://doi.org/10.1007/978-3-030-77424-0_13	2	2
23	Articolul A2.1_14 citat de: Y. Bouchoucha, D. Omri and T. Aguil, " <u>Study of an Improved Rectenna for RF Energy Harvesting in the ISM Band for Energy-Autonomous IoT Cardio Stimulator Applications</u> ," 2023 International Symposium on Networks, Computers and Communications (ISNCC), Doha, Qatar, 2023, pp. 1-6, doi: 10.1109/ISNCC58260.2023.10323607.	2	2
24	Articolul A2.1_14 citat de: M. Talha, R. Mumtaz and A. Rafay, " <u>Paving the way to cardiovascular health monitoring using Internet of Medical Things and Edge-AI</u> ," 2022 2nd International Conference on Digital Futures and Transformative Technologies (ICoDT2), Rawalpindi, Pakistan, 2022, pp. 1-6, doi: 10.1109/ICoDT255437.2022.9787432.	2	2
25	Articolul A2.1_13 citat de: M. Rajabalipanah, M. S. Roodsari, Z. Jahanpeima, G. Roascio, P. Prinetto and Z. Navabi, " <u>AFTAB: A RISC-V Implementation with Configurable Gateways for Security</u> ," 2021 IEEE East-West Design &	2	2

	Test Symposium (EWDTS), Batumi, Georgia, 2021, pp. 1-6, doi: 10.1109/EWDTS52692.2021.9580979.		
26	Articolul A2.1_9 citat de: N Surantha, AW Panjaitan, <u>REAL-TIME AND END-TO-END ENCRYPTED HEART RATE DATA TRANSMISSION</u> , ICIC Express Letters, Part B: Applications ICIC International, 2022 ISSN 2185-2766, Volume 13, Number 5, May 2022, pp. 445-454	4	1
27	Articolul A2.1_9 citat de: Schneider, P., Xhafa, F., <u>Anomaly Detection and Complex Event Processing Over IoT Data Streams: With Application to eHealth and Patient Data Monitoring</u> , Anomaly Detection and Complex Event Processing Over IoT Data Streams: With Application to eHealth and Patient Data Monitoring, pp. 1-381, 2022	4	1
28	Articolul A2.1_9 citat de: Wang, W., Zhao, W., Ailing, L., Xu, Z., <u>IoT medical embedded system design and Trimetazidine treatment of coronary heart disease and angina pectoris</u> , 2021, Microprocessors and Microsystems 82,103894	4	1
29	Articolul A2.1_9 citat de: Xie, Z., Ji, X., Han, J., <u>Design of hospital IoT smart system and nucleoside drugs for treatment of hepatitis and liver cirrhosis</u> , 2021, Microprocessors and Microsystems, 81,103691	4	1
30	Articolul A2.1_9 citat de: Mahalakshmi, A., Justin, J., <u>Electrocardiograms based electrodes, advantages, disadvantages, challenges, and limitations: A methodological review</u> , 2020, Journal of Advanced Research in Dynamical and Control Systems 12(7), pp. 409-418	4	1
31	Articolul A2.1_9 citat de: Arrigo Palumbo, Vera Gramigna, Barbara Calabrese, Nicola Ielpo, Gionata Fragomeni, <u>"A Real-Time Remote Monitoring System for Cardiovascular Diseases"</u> , International Journal of Engineering Trends and Technology Volume 70 Issue 11, 117-128, November 2022 ISSN: 2231 - 5381 / https://doi.org/10.14445/22315381/JETT-V70I11P212	4	1
32	Articolul A2.1_8 citat de: R. A. Biktashev and A. I. Martyshkin, <u>"Designing a High-Performance Resource Management Module for Real-Time Multiprocessor Systems,"</u> 2023 International Russian Smart Industry Conference (SmartIndustryCon), Sochi, Russian Federation, 2023, pp. 323-328, doi: 10.1109/SmartIndustryCon57312.2023.10110821.	2	2
33	Articolul A2.1_7 citat de: Punitkumar Bhavsar, <u>Improved ECG Denoising using CEEMAN based on Complexity Measure and Nonlocal Mean Approach</u> , IAENG International Journal of Computer Science, 49:2, IJCS_49_2_36, Volume 49, Issue 2: June 2022	4	1
34	Articolul A2.1_7 citat de: Mcgowan, Aleise; Sittig, Scott; Andel, Todd, <u>Medical Internet of Things: A Survey of the Current Threat and Vulnerability Landscape</u> , http://hdl.handle.net/10125/71082 , Proceedings of the 54th Hawaii International Conference on System Sciences, 2021-01-05	4	1
35	Articolul A2.1_7 citat de: Baby, B.E., Chandran, G.J. (2022). <u>Digital Health Infrastructure</u> . In: Gunjan, V.K., Zurada, J.M. (eds) Proceedings of the 2nd International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications. Lecture Notes in Networks and Systems, vol 237. Springer, Singapore. https://doi.org/10.1007/978-981-16-6407-6_60	4	1



36	Articolul A2.1_7 citat de: C.M. Naga Sudha, K. Gokulakrishnan, J. Jesu Vedha Nayahi, <u>IoT-Based Secure Smart Healthcare Solutions</u> , Book: Security Engineering for Embedded and Cyber-Physical Systems, 2023, eBook ISBN 9781003278207	4	1
38	Articolul A2.1_7 citat de: Noorwali, A., Yengui, A., Alzurqui, A., Ammous, K., Ammous, A., <u>Wireless ECG Monitor Design Based on Raspberry Pi3 and AD8232 Microchip</u> , 2022, International Review of Electrical Engineering, 17(1), pp. 89-98	4	1
39	Articolul A2.1_4 citat de: Jenkal, Wissam, et al. " <u>Embedded Systems in Biomedical Engineering: Case of ECG Signal Processing Using Multicores CPU and FPGA Architectures.</u> " Smart Embedded Systems and Applications (2023): 103.	1	4
40	Articolul A2.1_9 citat de: Pramesha Chandrasiri G.A., Halgamuge M.N., Subhashi Jayasekara C. (2019) <u>A Comparative Study in the Application of IoT in Health Care: Data Security in Telemedicine.</u> In: Mahmood Z. (eds) Security, Privacy and Trust in the IoT Environment. Springer, Cham,	4	1
Total:		62.3	

