

Fișă care dovedește îndeplinirea standardelor minimale (Abilitare/Profesor) – Informatică**Perspectiva b) – Producția științifică****Lista parțială a publicațiilor (include doar publicațiile încadrate A, B și C)****Total Punctaj → 103.33 puncte [necesar 56 puncte]****Criterii Minimale****Articole de tip A*, A și B → 89.33 puncte [necesar 40 puncte]****Articole de tip A*, A → 24 puncte [necesar 24 puncte]****Lista articolelor: http://www.razvanbocu.bocu.ro/?page_id=18.**

1. R., Bocu, **Dynamic Monitoring of Time-Dependent Evolution of Biomolecules Using Quantum Dots-Based Biosensors Assemblies**, in *Biosensors* 2024, 14, 380. <https://doi.org/10.3390/bios14080380>, 2024. [A(8 puncte) // https://uefiscdi.gov.ro/resource-866389-cuartile_ais_oct_2022_zone.pdf, pag. 249]
2. R., Bocu, M., Iavich, **Enhanced detection of low-rate DDoS attack patterns using machine learning models**, in *Journal of Network and Computer Applications*, volume 227, 103903. <https://doi.org/10.1016/j.jnca.2024.103903>, 2024. [A(8 puncte) // https://uefiscdi.gov.ro/resource-866389-cuartile_ais_oct_2022_zone.pdf, pag. 96]
3. Aldea, C.L., Bocu, R., Duca Iliescu, D.M. (2024). **Health Parameters Monitoring Through an Integrated Multilayer Digital Twin Architecture**. In: Barolli, L. (eds) *Advanced Information Networking and Applications. AINA 2024. Lecture Notes on Data Engineering and Communications Technologies*, vol 199. Springer, Cham. https://doi.org/10.1007/978-3-031-57840-3_27. [B(4 puncte) // <http://portal.core.edu.au/conf-ranks/890/>]
4. R., Bocu, **Extended Review Concerning the Integration of Electrochemical Biosensors into Modern IoT and Wearable Devices**, in *Biosensors* 2024, 14, 214. <https://doi.org/10.3390/bios14050214>, 2024. [A(8 puncte) // https://uefiscdi.gov.ro/resource-866389-cuartile_ais_oct_2022_zone.pdf, pag. 249]
5. M. Iavich, T. Kuchukhidze, R. Bocu, **A Post-Quantum Digital Signature Using Verkle Trees and Lattices**, *Symmetry*. 2023; 15(12):2165. <https://doi.org/10.3390/sym15122165>. [C(2 puncte) // https://uefiscdi.gov.ro/resource-866389-cuartile_ais_oct_2022_zone.pdf, pag. 339]
6. R. Bocu, A. Baicoianu and A. Kerestely, **An Extended Survey Concerning the Significance of Artificial Intelligence and Machine Learning Techniques for Bug Triage and Management**, in *IEEE Access*, vol. 11, pp. 123924-123937, 2023, doi: 10.1109/ACCESS.2023.3329732, <https://ieeexplore.ieee.org/document/10305170>. [B(4 puncte) //

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- https://uefiscdi.gov.ro/resource-866389-cuartile_ais_oct_2022_zone.pdf, pag. 154]
7. R. Bocu, D., Bocu, **Next Generation Mobile Sensors: Review Regarding the Significance of Deep Learning and Privacy Techniques for Data-Driven Soft Sensors**, Proceedings of the Conference „Advanced Information Networking and Applications”, 2023. [B(4 puncte) // <http://portal.core.edu.au/conf-ranks/890/>] [https://link.springer.com/chapter/10.1007/978-3-031-28694-0_1]
 8. C. L., Aldea, R., Bocu, R. N., Solca, **Real-Time Monitoring and Management of Hardware and Software Resources in Heterogeneous Computer Networks through an Integrated System Architecture**, *Symmetry* 2023, 15(6), 1134; <https://doi.org/10.3390/sym15061134>, 2023. [C(2 puncte) // https://uefiscdi.gov.ro/resource-866389-cuartile_ais_oct_2022_zone.pdf , pag. 339]
 9. L., Gorlov, M. Iavich, R., Bocu, **Linear Layer Architecture Based on Cyclic Shift and XOR**. *Symmetry*. 2023; 15(8):1496. <https://doi.org/10.3390/sym15081496> , 2023. [C(2 puncte) // https://uefiscdi.gov.ro/resource-866389-cuartile_ais_oct_2022_zone.pdf , pag. 339]
 10. M. Iavich, G., Akhalaia, R., Bocu, **Device Tracking Threats in 5G Network**, Proceedings of the Conference "Advanced Information Networking and Applications", 2023. [B(4 puncte) // <http://portal.core.edu.au/conf-ranks/890/>] [https://link.springer.com/chapter/10.1007/978-3-031-28694-0_46]
 11. M. Iavich, T., Kuchukhidze, R., Bocu, **A Post-quantum Cryptosystem with a Hybrid Quantum Random Number Generator**, Proceedings of the Conference "Advanced Information Networking and Applications", 2023. [B(4 puncte) // <http://portal.core.edu.au/conf-ranks/890/>] [https://link.springer.com/chapter/10.1007/978-3-031-28451-9_32]
 12. R., Bocu, M., Iavich, **Real-Time Intrusion Detection and Prevention System for 5G and beyond Software-Defined Networks**, *Symmetry* 2023, 15(1), 110; <https://doi.org/10.3390/sym15010110> , 2022 . [C(2 puncte) // https://uefiscdi.gov.ro/resource-866389-cuartile_ais_oct_2022_zone.pdf , pag. 339]
 13. C. L., Aldea, R., Bocu, A., Vasilescu, **Relevant Cybersecurity Aspects of IoT Microservices Architectures Deployed over Next-Generation Mobile Networks**, *Sensors* 2023, 23(1), 189; <https://doi.org/10.3390/s23010189> , 2022. [B(4 puncte) // https://uefiscdi.gov.ro/resource-866389-cuartile_ais_oct_2022_zone.pdf , pag. 249]
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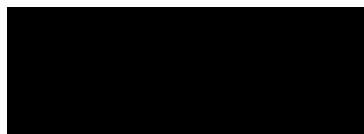
14. R. Bocu, D., Bocu, M. Iavich, **An Extended Review Concerning the Relevance of Deep Learning and Privacy Techniques for Data-Driven Soft Sensors**, *Sensors* **2023**, 23(1), 294; <https://doi.org/10.3390/s23010294>, 2022. [B(4 puncte) // https://uefiscdi.gov.ro/resource-866389-cuartile_ais_oct_2022_zone.pdf, pag. 249]
15. R. Bocu, A., Vasilescu, D. M., Duca Iliescu, **Personal Health Metrics Data Management Using Symmetric 5G Data Channels**, *Symmetry*, **2022**; 14(7):1387. <https://doi.org/10.3390/sym14071387>, 2022. [C(2 puncte) // https://uefiscdi.gov.ro/resource-866389-cuartile_ais_oct_2022_zone.pdf, pag. 339]
16. R. Bocu, C., Costache, **A Homomorphic Encryption-Based System for Securely Managing Personal Health Metrics Data**, *IBM Journal of Research and Development* ISSN 0018-8646, Volume 62, Issue 1, 2018, pp. 1:1-1:10. [<https://ieeexplore.ieee.org/document/8269765>] [B(4 puncte) // <https://uefiscdi.gov.ro/resource-84257>, pagina 147], <https://ieeexplore.ieee.org/abstract/document/8269765>]
17. R. Bocu, D., Bocu, M., Iavich, **Objects Detection Using Sensors Data Fusion in Autonomous Driving Scenarios**, *Electronics* **2021**, 10, 2903. <https://doi.org/10.3390/electronics10232903>, 2021. [B(4 puncte) // https://uefiscdi.gov.ro/resource-868245-clasament2020_if.pdf, pagina 171] [<https://www.mdpi.com/2079-9292/10/23/2903>]
18. D., Bocu, R., Bocu, **Remarks on Interface Oriented Software Systems Modelling**, *International Journal of Computers, Communications & Control* ISSN 1841-9836, ISSN-L 1841-9836, Volume 8, Issue 5, October, 2013, pp. 662-672. [C(2 puncte) // Este jurnal Scopus, deci se poate încadra în categoria C] [ijccc_1.pdf, <http://univagora.ro/jour/index.php/ijccc/article/view/6>] [Scopus: <https://www.scopus.com/sourceid/11800154542>]
19. R. Bocu, S. Tabirca, **The Flag-based Algorithm – A Novel Greedy Method that Optimizes Protein Communities Detection**, *International Journal of Computers, Communications & Control*, 6(1), 2011, pp. 33-44, ISSN: 1841 – 9836. [C(2 puncte) // Este jurnal Scopus, deci se poate încadra în categoria C] [ijccc_2.pdf, <http://univagora.ro/jour/index.php/ijccc/article/view/2198>] [Scopus: <https://www.scopus.com/sourceid/11800154542>]
20. R. Bocu, M. Iavich, S. Tabirca, **A Real-Time Intrusion Detection System for Software Defined 5G Networks**, Proceedings of the Conference „Advanced Information Networking and Applications”, 2021. [B(4 puncte) // <http://portal.core.edu.au/conf-ranks/890/>] [https://link.springer.com/chapter/10.1007/978-3-030-75078-7_44]
21. A. Kerestely, A. Baicoianu, R., Bocu, **A Research Study on Running Machine Learning Algorithms on Big Data with Spark**, Proceedings of The 14th International Conference on Knowledge Science, Engineering and Management (KSEM), 2021. [B(4 puncte) //

- <http://portal.core.edu.au/conf-ranks/1112/>]]
https://link.springer.com/chapter/10.1007/978-3-030-82136-4_25]
22. R. Bocu, M. Iavich, **Enhanced Autonomous Driving Through Improved 3D Objects Detection**, Proceedings of the Conference „Advanced Information Networking and Applications”, 2022. [B(4 puncte)]]
<http://portal.core.edu.au/conf-ranks/890/>]
https://link.springer.com/chapter/10.1007/978-3-030-99584-3_6]
23. R. Bocu, D. Bocu, **Conceptual Foundations of Code Rationalization Through a Case Study in Haskell**, Proceedings of the Conference „Advanced Information Networking and Applications”, 2022. [B(4 puncte)]]
<http://portal.core.edu.au/conf-ranks/890/>]
https://link.springer.com/chapter/10.1007/978-3-030-99584-3_11]
24. M. Iavich, R. Bocu, A. Gagnidze, **Real Time Self-developing Cybersecurity Function for 5G**, Proceedings of the Conference „Advanced Information Networking and Applications”, 2022. [B(4 puncte)]]
<http://portal.core.edu.au/conf-ranks/890/>]
https://link.springer.com/chapter/10.1007/978-3-030-99619-2_36]
25. M. Iavich, S. Gnatyuk, R. Odarchenko, R. Bocu, S. Simonov, **The novel system of attacks detection in 5G**, Proceedings of the Conference „Advanced Information Networking and Applications”, 2021. [B(2 1.33 puncte)]]
<http://portal.core.edu.au/conf-ranks/890/>]]
https://link.springer.com/chapter/10.1007/978-3-030-75075-6_47]
26. R. Bocu, **A Secure Distributed e-Health System for the Management of Personal Health Metrics Data**, Proceedings of the Conference „Advanced Information Networking and Applications”, 2020. [B(4 puncte)]]
<http://portal.core.edu.au/conf-ranks/890/>]]
https://link.springer.com/chapter/10.1007/978-3-030-44041-1_4]
27. R. Bocu, **A Constructive Review Regarding the Significance of 5G Networks for the Internet of Things**, Proceedings of the Conference „Advanced Information Networking and Applications”, 2020. [B(4 puncte)]]
<http://portal.core.edu.au/conf-ranks/890/>]]
https://link.springer.com/chapter/10.1007/978-3-030-44038-1_26]

Brașov

Conferențiar Dr. Răzvan Bocu

30.10.2024



Perspectiva c) – Impactul rezultatelor (Lista citărilor)

Total punctaj → 245,66 puncte [necesar 120 puncte]

Criterii minimale

(Prag) Citari din Articole de tip A*, A sau B → 119.33 puncte [necesar 40 puncte]

(Doar informativ) Citari din Articole de tip A*, A → 54.67 puncte

- C., Costache, O., Machidon, A., Mladin, F., Sandu, R., Bocu, **Software-Defined Networking of Linux Containers**, IEEE Computer Society RoEduNet Conference, 2014.

[<https://ieeexplore.ieee.org/document/6955310>]

1	Peinl, René, Florian Holzschuher, and Florian Pfitzer. "Docker cluster management for the cloud-survey results and own solution." <i>Journal of Grid Computing</i> 14.2 (2016): 265-282. [peinl2016.pdf, referinta 44, https://link.springer.com/article/10.1007/s10723-016-9366-y]	B [AIS2016.pdf, Link , pag. 105]	4
2	Claassen, Joris, Ralph Koning, and Paola Grosso. "Linux containers networking: Performance and scalability of kernel modules." <i>Network Operations and Management Symposium (NOMS), 2016 IEEE/IFIP</i> . IEEE, 2016. [classen2016.pdf, referinta 18, https://ieeexplore.ieee.org/abstract/document/7502883/references#references]	B [http://portal.core.edu.au/conf-ranks/723/]	4
3	Fontenla-González, Jorge, et al. "Lightweight container-based openEPC deployment and its evaluation." <i>NetSoft Conference and Workshops (NetSoft), 2016 IEEE</i> . IEEE, 2016. [fontenla-gonzalez2016.pdf, referinta 23, https://ieeexplore.ieee.org/abstract/document/7502481/references#references]	B [http://portal.core.edu.au/conf-ranks/2245/]	4
4	Claassen, Joris. "Container Network Solutions Research Project 2." (2015). [report_2015.pdf, referinta 22, https://rp.os3.nl/2014-2015/p45/report.pdf]	D	1
5	BABU, YASVANTH. "DOCKER CONTAINER CLUSTER DEPLOYMENT ACROSS DIFFERENT NETWORKS." (2016). [Babu.pdf, referinta 8, http://norma.ncirl.ie/2120/1/Yasvanth%20Babu.pdf]	D	1

6	Mulfari, Davide, Antonino Longo Minnolo, and Antonio Puliafito. "Wearable Devices and IoT as Enablers of Assistive Technologies." <i>Developments in eSystems Engineering (DeSE)</i> , 2017 10th International Conference on. IEEE, 2017. [mulfari2017, referinta 14, https://ieeexplore.ieee.org/abstract/document/8285790/references#references]	C http://portal.core.edu.au/conf-ranks/2177/	2
7	Bourehida, Pegado. Desarrollo de sondas de monitorización virtuales over-switch para entornos SDN. MS thesis. 2017. [Pegado.pdf, referinta 31, https://repositorio.uam.es/handle/10486/681183]	D	1
8	Watada, Junzo, et al. "Emerging trends, techniques and open issues of containerization: a review." <i>IEEE Access</i> 7 (2019): 152443-152472. [watada2019.pdf, referinta 84, https://ieeexplore.ieee.org/abstract/document/8861307/references#references]	A [IF2019.pdf, pag. 107] [https://uefiscdi.gov.ro/resource-822843]	8
9	Peinl, René, and Florian Holzschuher. "The Docker Ecosystem Needs Consolidation." <i>CLOSER</i> . 2015. [54760.pdf, referinta 8, https://www.scitepress.org/Papers/2015/54760/54760.pdf]	D [http://portal.core.edu.au/conf-ranks/2300/](indexata prima data in CORE2021).	1
10	Smet, Piet, Bart Dhoedt, and Pieter Simoens. "Docker layer placement for on-demand provisioning of services on edge clouds." <i>IEEE Transactions on Network and Service Management</i> 15.3 (2018): 1161-1174. [smet2018.pdf, referinta 4, https://ieeexplore.ieee.org/abstract/document/8372945/references#references]	A [IF2018.pdf, pag. 142] [https://uefiscdi.gov.ro/resource-84252]	8
11	Schreiber, Marc. "Prevant (Preview servant): composing microservices into reviewable and testable applications." <i>Joint Post-proceedings of the First and Second International Conference on Microservices (Microservices 2017/2019)</i> . Schloss Dagstuhl-Leibniz-Zentrum für Informatik, 2020. [schreiber2017.pdf, referinta 7, https://drops.dagstuhl.de/opus/volltexte/2020/11827/pdf/OASICS-Microservices-2017-2019-5.pdf]	D	1
12	Iyer, Shyam T. "Systems and methods for hardware-based security for inter-container communication." U.S. Patent No. 10,503,922. 10 Dec. 2019. [US_Patent_1.pdf, referinta 1, https://patentimages.storage.googleapis.com/d9/39/ff/1	D	1

	4228e1cd2c54e/US10503922B2.pdf // referinta 3, https://patents.google.com/patent/US10503922B2/en]		
1 3	Ahammad, Ishtiaq, Md Ashikur Rahman Khan, and Zayed Us Salehin. "Software-defined dew, roof, fog and cloud (SD-DRFC) framework for IoT ecosystem: the journey, novel framework architecture, simulation, and use cases." <i>SN Computer Science</i> 2.3 (2021): 1-51. [ahammad2021.pdf, referinta 14, https://link.springer.com/article/10.1007/s42979-021-00521-y]	D	1
1 4	Firthows, Mohamed Najath, et al. "Multi-Cloud Container Communication Using Software Defined Networks." <i>2019 International Conference on Advancements in Computing (ICAC)</i> . IEEE, 2019. [firthows2019.pdf, referinta 1, https://ieeexplore.ieee.org/abstract/document/9103426/references#references]	D	1
1 5	PRESTO: a system for automatic provisioning of acceptance testing environments (Teza de disertatie) https://core.ac.uk/reader/129821400 , 2015 [referinta 10, Cesare.pdf, https://core.ac.uk/reader/129821400]	D [https://core.ac.uk/reader/129821400]	1
1 6	(2022). Optimal Container Migration/Re-Instantiation in Hybrid Computing Environments. <i>IEEE Open Journal of the Communications Society</i> . PP. 1-1. 10.1109/OJCOMS.2022.3140272. [aleyadeh.pdf, referinta 7, https://ieeexplore.ieee.org/abstract/document/9672111/references#references]	C[indexat Scopus], [https://www.scopus.com/sourceid/21101070921]	2
1 7	Miano, Sebastiano, Xiaoqi Chen, Ran Ben Basat, and Gianni Antichi. "Fast In-kernel Traffic Sketching in eBPF." <i>ACM SIGCOMM Computer Communication Review</i> 53, no. 1 (2023). [referinta 18, https://dl.acm.org/doi/abs/10.1145/3594255.3594256]	B [https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.oct.2022.zone.pdf , pag. 89, primele 20% zona gri]	4
1 8	Nova metoda detekcije DDoS napada primenom softverski definisanih mreža [teză de doctorat, https://www.elfak.ni.ac.rs/downloads/informacije/studenti/doktorske-magistarske/doktorske-disertacije/2023-dd-danijel-d-cabarkapa.pdf]	D	1
1 9	A. Chiras, A. Peratikou and S. Stavrou, "Increasing Security of Containerized Blockchain using SDN," <i>2024 Panhellenic Conference on Electronics &</i>	D(două publicații diferite!)	2

	<p><i>Telecommunications (PACET)</i>, Thessaloniki, Greece, 2024, pp. 1-5, doi: 10.1109/PACET60398.2024.10497057. (https://ieeexplore.ieee.org/abstract/document/10497057/references#references , referinta 8) (https://kypseli.ouc.ac.cy/bitstream/handle/11128/5204/%ce%91%ce%a5%ce%94-2022-00103.pdf?sequence=1&isAllowed=y , referinta 28)</p>		
20	<p>H. Khalilnasl, A. Depari, P. Ferrari, A. Flammini, M. Gaffurini and E. Sisinni, "Implementing a Software Defined LoRaWAN Node Exploiting Container-Based Lightweight Virtualization," <i>2024 IEEE International Symposium on Measurements & Networking (M&N)</i>, Rome, Italy, 2024, pp. 1-6, doi: 10.1109/MN60932.2024.10615549. [https://ieeexplore.ieee.org/document/10615549/references#references], (referinta 3)</p>	D	1

Total parțial: 49/(5-2)=16.33 puncte

Total parțial citări A*, A, B: 32/(5-2)=10.66 puncte

Total parțial citări A*, A: 16/(5-2)=5.33 puncte

- **R. Bocu, C., Costache, A Homomorphic Encryption-Based System for Securely Managing Personal Health Metrics Data**, *IBM Journal of Research and Development* ISSN 0018-8646, Volume 62, Issue 1, 2018, pp. 1:1-1:10. [<https://ieeexplore.ieee.org/document/8269765>]

1	<p>Alloghani, Mohamed, et al. "A systematic review on the status and progress of homomorphic encryption technologies." <i>Journal of Information Security and Applications</i> 48 (2019): 102362. [jisa2019.pdf, referinta 67, https://www.sciencedirect.com/science/article/abs/pii/S2214212618306057]</p>	C [IF2019.pdf, pag. 113] https://uefisc.di.gov.ro/resource-821947-if.clasament.jcr.iunie2018.pdf	2
2	<p>Crespo-Cepeda, Rodrigo, et al. "Challenges and opportunities of amazon serverless lambda services in bioinformatics." <i>Proceedings of the 10th ACM International Conference on Bioinformatics, Computational Biology and Health Informatics</i>. 2019. [crespo-cepeda2019.pdf, referinta 4, https://dl.acm.org/doi/abs/10.1145/3307339.3343462#sec-ref]</p>	D	1
3	<p>Chaudhari, Anita, and Rajesh Bansode. "Securing IoT devices generated data using homomorphic encryption." <i>Intelligent</i></p>	D	1

	<i>Computing and Networking</i> . Springer, Singapore, 2021. 219-226. [referinta 14, https://link.springer.com/chapter/10.1007/978-981-15-7421-4_20]		
4	Zhang, Neng, et al. "Nttu: an area-efficient low-power ntt-uncoupled architecture for ntt-based multiplication." <i>IEEE Transactions on Computers</i> 69.4 (2019): 520-533. [nttu.pdf, referinta 4, https://ieeexplore.ieee.org/abstract/document/8928952/references#references]	A [pag. 103] https://uefisc.di.gov.ro/resource-821947-if.clasament.jcr.iunie2018.pdf	8
5	Priyadharshini, Indra, and Vigilson Prem. "ISSN 1736-7530 (electronic) ISSN 1736-6046 (print) Formerly: Proceedings of the Estonian Academy of Sciences, series Physics & Mathematics and Chemistry Published since 1952." [prem.pdf, referinta 7, https://kirj.ee/wp-content/plugins/kirj/pub/proc-2020-3-266-276%2020200818084727.pdf?v=f5b15f58caba]	C [pag. 344] din https://uefiscdi.gov.ro/resource-868245-clasament2020-if.pdf]	2
6	Kumbhar, Hemant Ramdas, and S. Srinivasa Rao. "Machine Learning Techniques for Homomorphically Encrypted Data." <i>Applied Computer Vision and Image Processing</i> . Springer, Singapore, 2020. 247-256. [referinta 19, https://link.springer.com/chapter/10.1007/978-981-15-4029-5_25]	D	1
7	Chaudhari, Anita, and Rajesh Bansode. "Securing Medical Data Using Fully Homomorphic Encryption." <i>ICT for Competitive Strategies</i> . CRC Press, 2020. 455-464. [pagina 463, referinta 5, https://www.google.com/books?hl=ro&lr=&id=YsjhDwAAQBAJ&oi=fnd&pg=PA455&dq=Securing+Medical+Data+Using+Fully+Homomorphic+Encryption&ots=Tc4THoVesk&sig=kITU6LH1zTJEjMhi4Ur1yta5EKM]	D	1
8	Hamza, Rafik, and Koji Zettsu. "Investigation on Privacy-Preserving Techniques For Personal Data." <i>Proceedings of the 2021 ICDAR Conference</i> . [referinta 6, https://dl.acm.org/doi/abs/10.1145/3463944.3469267]	D	1
9	Munjal, K., Bhatia, R. A systematic review of homomorphic encryption and its contributions in healthcare industry. <i>Complex Intell. Syst.</i> (2022). https://doi.org/10.1007/s40747-022-00756-z [referinta 90]	A(PRECISI 2021) [pagina 90, primele 20% zona galbena, https://uefisc.di.gov.ro/resource-868245-	8

		clasament2020_if.pdf]	
10	Wibawa, Febrianti, Ferhat Ozgur Catak, Murat Kuzlu, Salih Sarp, and Umit Cali. "Homomorphic encryption and federated learning based privacy-preserving cnn training: Covid-19 detection use-case." In <i>Proceedings of the 2022 European Interdisciplinary Cybersecurity Conference</i> , pp. 85-90. 2022. [referinta 7, https://dl.acm.org/doi/abs/10.1145/3528580.3532845]	D	1
11	Wang, Fengwei, Hui Zhu, Rongxing Lu, Yandong Zheng, and Hui Li. "Achieve efficient and privacy-preserving disease risk assessment over multi-outsourced vertical datasets." <i>IEEE Transactions on Dependable and Secure Computing</i> 19, no. 3 (2020): 1492-1504. [referinta 10, https://ieeexplore.ieee.org/abstract/document/9205662/references#references]	A(PRECISI 2021) [https://uefiscdi.gov.ro/resource-868245-clasament2020_if.pdf , pag. 97]	8
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14	E. -M. Bădulă, S. Halunga, O. Fratu and M. Popescu, "Intelligent Blocking System for Mobile Communications Initiated by Unauthorized Users," <i>2023 15th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)</i> , Bucharest, Romania, 2023, pp. 01-06, doi: 10.1109/ECAI58194.2023.10194110. [referinta 3, https://ieeexplore.ieee.org/abstract/document/10194110/references#references]	D	1
15	Iavich, M. (2023). Machine Learning Based Function for 5G Working with CPU Threads. In: Hu, Z., Dychka, I., He, M. (eds) <i>Advances in Computer Science for Engineering and Education VI. ICCSEEA 2023. Lecture Notes on Data Engineering and Communications Technologies</i> , vol 181. Springer, Cham. https://doi.org/10.1007/978-3-031-36118-0_52 [referinta 5]	D	1
16	Iavich, M., Gnatyuk, S., Iashvili, G., Odarchenko, R., Simonov, S. (2023). 5G Security Function and Its Testing Environment. In: Faure, E., Danchenko, O., Bondarenko, M., Tryus, Y., Bazilo, C., Zaspas, G. (eds) <i>Information Technology for Education, Science, and Technics. ITEST 2022. Lecture Notes on Data Engineering and Communications Technologies</i> , vol 178. Springer, Cham. https://doi.org/10.1007/978-3-031-35467-0_39 [referinta 9]	D	1
17	Iashvili, G., Odarchenko, R., Gnatyuk, S., & Gagnidze, A. (2023). RECOMMENDER SYSTEMS USE IN CYBERSECURITY FIELD. <i>Scientific and practical cyber security journal</i> . [referinta 6], [https://journal.scsa.ge/papers/recommender-systems-use-in-cybersecurity-field/]	D	1
18	Iashvili, G., Odarchenko, R., Gnatyuk, S., & Gagnidze, A. (2023). USE OF MACHINE LEARNING IN RECOMMENDER SYSTEMS. <i>Scientific and practical cyber security journal</i> . [referinta 6], [https://journal.scsa.ge/papers/use-of-machine-learning-in-recommender-systems/]	D	1
19	Yarotskiy, Stanislav, Viktoriia Sydorenko, Anzhela Lelechenko, Olena Kolisnyk, and Artem Polozhentsev. "Method of Determining the Importance Factor of IT Security Projects Investment Attractiveness in Critical Infrastructures." (2023). https://ceur-ws.org/Vol-3550/paper15.pdf [referinta 17]	D	1

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21	S. -Y. Kim, N. -E. Park and I. -G. Lee, "Reliable and Low-Latency Intrusion Detection System for Lightweight Internet of Things Environment," <i>2023 IEEE 98th Vehicular Technology Conference (VTC2023-Fall)</i> , Hong Kong, Hong Kong, 2023, pp. 1-6, doi: 10.1109/VTC2023-Fall60731.2023.10333429. [referinta 12],[https://ieeexplore.ieee.org/abstract/document/10333429/references#references]	B [http://portal.core.edu.au/conf-ranks/757/]	4
22	T. N. Linh Le, B. A. Salem, E. A. Ahad, N. Aitsaadi and X. Du, "5G-IoT-IDS: Intrusion Detection System for CloT as Network Function in 5G Core Network," <i>GLOBECOM 2023 - 2023 IEEE Global Communications Conference</i> , Kuala Lumpur, Malaysia, 2023, pp. 4773-4778, doi: 10.1109/GLOBECOM54140.2023.10437158. (https://ieeexplore.ieee.org/document/10437158/references#references) [referinta 2]	B [https://portal.core.edu.au/conf-ranks/2030/]	4
23	(2024) Challenges and Solutions for Cybersecurity and Information Security Management in Organizations (short paper) [referinta 6]	D	1
24	Pasandi, H. B., & Parastar, F. (2024). Location Privacy in B5G/6G: Systematization of Knowledge. <i>arXiv preprint arXiv:2406.00359</i> . [referinta 25], [https://arxiv.org/abs/2406.00359]	D	1
25	Таран, М. Р. (2024). Антенна решітка для підвищення ефективності технології 5G в міліметровому діапазоні хвиль. [referinta 40](https://elar.khmnu.edu.ua/server/api/core/bitstreams/8828c8f2-c5b4-41d1-aecf-64101177d23e/content)	D	1

Total parțial: 34/(5-2)=11.33 puncte

Total parțial citări A*, A, B: 12/(5-2)=4 puncte

- Bocu, R., Iavich, M., Tabirca, S. (2021). **A Real-Time Intrusion Detection System for Software Defined 5G Networks**. In: Barolli, L., Woungang, I., Enokido, T. (eds) *Advanced Information Networking and Applications. AINA 2021. Lecture Notes in Networks and Systems*, vol 227. Springer, Cham. https://doi.org/10.1007/978-3-030-75078-7_44 [
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2	Iavich, Maksim. "The Hybrid Detection Methodology of Attacks for 5G." In <i>Advances in Artificial Systems for Power Engineering II</i> , pp. 65-74. Cham: Springer International Publishing, 2022. [referinta 26, https://link.springer.com/chapter/10.1007/978-3-030-97064-2_7]	D	1
3	Imanbayev, Azamat, Sakhybay Tynymbayev, Roman Odarchenko, Sergiy Gnatyuk, Rat Berdibayev, Alimzhan Baikenov, and Nargiz Kaniyeva. "Research of Machine Learning Algorithms for the Development of Intrusion Detection Systems in 5G Mobile Networks and Beyond." <i>Sensors</i> 22, no. 24 (2022): 9957. [referinta 54, https://www.mdpi.com/1424-8220/22/24/9957].	A(PRECISI 2021) [https://uefiscdi.gov.ro/resource-868245-clasament2020_if.pdf] (pagina 257)	8
4	Jafri STA, Ahmed I, Ali S, Yahaya J, Qamar F, Abdullah ZH. Split Hop Penalty for Transmission Quality Metrics in a Better Approach to Mobile Ad Hoc Networking (BATMAN) for IoT-Based MANET. <i>Symmetry</i> . 2023; 15(5):969. [referinta 7, https://doi.org/10.3390/sym15050969]	C [https://uefiscdi.gov.ro/resource-866389-cuartile_ais_oct_2022_zone.pdf], pag. 339]	2
5	Ramasubramanian, Gopalakrishnan, and Singaravelu Rajaprakash. "An Avant-Garde African Vulture Optimization (A2VO) based Deep RNN-LSTM Model for 5G-IoT Security", <i>Journal of Advanced Research in Applied Sciences and Engineering Technology</i> 32, no. 1 (2023): 1-17. [referinta 23],[https://doi.org/10.37934/araset.32.1.117]	C(Scopus), [https://www.scopus.com/sourceid/21101119543]	2
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7	Pirbhulal, S., Chockalingam, S., Shukla, A. <i>et al.</i> IoT cybersecurity in 5G and beyond: a systematic literature review. <i>Int. J. Inf. Secur.</i> (2024). https://doi.org/10.1007/s10207-024-00865-5 [referinta 40]	C [https://uefiscdi.gov.ro/resource-866389-cuartile_ais_oct_2022_zone.pdf , pagina 89]	2
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Total parțial: 17/(3-2)=17 puncte

Total parțial citări A*, A, B: 8/(3-2)=8 puncte

Total parțial citări A*, A: 8/(3-2)=8 puncte

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2	G. Amponis <i>et al.</i> , "Towards Securing Next-Generation Networks: Attacking 5G Core/RAN Testbed," <i>2022 Panhellenic Conference on Electronics & Telecommunications (PACET)</i> , Tripolis, Greece, 2022, pp. 1-4, doi: 10.1109/PACET56979.2022.9976365. [referinta 3, https://ieeexplore.ieee.org/document/9976365/references#references]	D	1
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5	Amponis, G., Radoglou-Grammatikis, P., Lagkas, T., Ouzounidis, S., Zevgara, M., Moscholios, I., ... & Sarigiannidis, P. (2023). Generating full-stack 5G security datasets: IP-layer and core network persistent PDU session attacks. <i>AEU-International Journal of Electronics and Communications</i> , 154913. [referinta 7], https://www.sciencedirect.com/science/article/pii/S1434841123003874].	C [https://uefiscdi.gov.ro/resource-866389-cuartile-ais-oct-2022-zone.pdf , pag. 513]	2
6	V. Shrivastava and A. K. Chaturvedi, "A Survey on Intrusion Detection System Based on Machine Learning and Deep Learning", <i>2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)</i> , Delhi, India, 2023, pp. 1-6, doi: 10.1109/ICCCNT56998.2023.10306615. [referinta 15] (http://dx.doi.org/10.1109/ICCCNT56998.2023.10306615)	D	1
7	Machine Learning Based Anomaly and Intrusion Detection to mitigate DoS and DDoS attacks in Private Campus Networks. Conference: Mobile Communication - Technologies and Applications; 28th VDE ITG-Symposium. At: Osnabrück/Sachinkumar Bavikatti Mallikarjun, Ashitha Mudraje, Jyothirbindu Maddali, Hans D Schotten, 2024, [referinta 4] (https://www.researchgate.net/publication/380639168_Machine_Learning_Based_Anomaly_and_Intrusion_Detection_to_mitigate_DoS_and_DDoS_attacks_in_Private_Campus_Networks)	D	1

Total parțial: 18/(5-2)=6 puncte

Total parțial citări A*, A, B: 12/(5-2)=4 puncte

Total parțial citări A*, A: 8/(5-2)=2.67 puncte

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2	L. Mirtskhulava, M. Iavich, M. Razmadze and N. Gulua, "Securing Medical Data in 5G and 6G via Multichain Blockchain Technology using Post-Quantum Signatures," <i>2021 IEEE International Conference on Information and Telecommunication Technologies and Radio Electronics (UkrMiCo)</i> , Odesa, Ukraine, 2021, pp. 72-75, doi: 10.1109/UkrMiCo52950.2021.9716595. [referinta 9, https://ieeexplore.ieee.org/abstract/document/9716595/references#references]	D	1
3	Iavich, Maksim. "Post-quantum Scheme with the Novel Random Number Generator with the Corresponding Certification Method." In <i>Advances in Intelligent Systems, Computer Science and Digital Economics IV</i> , pp. 76-88. Cham: Springer Nature Switzerland, 2023. [referinta 8, https://link.springer.com/chapter/10.1007/978-3-031-24475-9_7].	D	1
4	Iavich, Maksim, Avtandil Gagnidze, and Giorgi Iashvili. "THE INITIAL CONCEPTS OF POST-QUANTUM SIGNATURE DESIGN USING VERKLE TREE." <i>Scientific and practical cyber security journal</i> (2022). [referinta 10, https://journal.scsa.ge/papers/the-initial-concepts-of-post-quantum-signature-design-using-verkle-tree/]	D	1

Total parțial: 4/(4-2)=2 puncte

Total parțial citări A*, A, B: 0

- M. Iavich, R. Bocu, G. Iashvili and S. Gnatyuk, "**Novel Method of Hardware Security Problems Identification**", *2020 IEEE International Conference on Problems of Infocommunications. Science and Technology (PIC S&T)*, Kharkiv, Ukraine, 2020, pp. 427-431, doi: 10.1109/PICST51311.2020.9467966.

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Total parțial: 1/(4-2)=0.5 puncte

Total parțial citări A*, A, B: 0

- R. Bocu and S. Tabirca, "**Protein communities detection optimization through an improved Parallel Newman-Girvan algorithm**", *9th RoEduNet IEEE International Conference*, Sibiu, Romania, 2010, pp. 380-385.

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Total parțial: 2/1=2 puncte

Total parțial citări A*, A, B: 0

- M. Iavich, R. Bocu, G. Iashvili and R. Odarchenko, "**A Post-Quantum Secure e-Health System for the Data Management**", *2021 IEEE 4th International Conference on Advanced Information and Communication Technologies (AICT)*, Lviv, Ukraine, 2021, pp. 270-276, doi: 10.1109/AICT52120.2021.9628896.

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1	Bonab, A. B., Fedele, M., Formisano, V., & Rudko, I. (2023). Urban quantum leap: A comprehensive review and analysis of quantum technologies for smart cities. <i>Cities</i> , 140, 104459. [referinta 65], [https://doi.org/10.1016/j.cities.2023.104459]	A (pagina 522) (primele 20% zona galbena) [https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.oct.2022.zone.pdf]	8
2	Mansoor, K., Afzal, M., Iqbal, W., Abbas, Y., Mussiraliyeva, S., & Chehri, A. (2024). PQCAIE: Post quantum cryptographic authentication scheme for IoT-based e-health systems. <i>Internet of Things</i> , 101228.[referinta 22], (https://www.sciencedirect.com/science/article/pii/S2542660524001690)	B (pagina 88) [https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.oct.2022.zone.pdf]	4

Total parțial: 12/(4-2)=6 puncte

Total parțial citări A*, A, B: 12/(4-2)=6 puncte

Total parțial citări A*, A: 8/(4-2)=4 puncte

- Bocu R., Bocu D., Iavich M. **An Extended Review Concerning the Relevance of Deep Learning and Privacy Techniques for Data-Driven Soft Sensors.** *Sensors*. 2023; 23(1):294. <https://doi.org/10.3390/s23010294>

1	Wei C, Song Z. Real-Time Forecasting of Subsurface Inclusion Defects for Continuous Casting Slabs: A Data-Driven Comparative Study. <i>Sensors</i> . 2023; 23(12):5415. https://doi.org/10.3390/s23125415 [https://www.mdpi.com/1424-8220/23/12/5415 , referinta 31]	B (4 puncte) [https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.oct.2022.zone.pdf , pag. 249]	4
2	Wu, J. Soft electronic material based sensor with optical network in sports application for player movement analysis using machine learning model. <i>Opt Quant Electron</i> 56, 526 (2024). https://doi.org/10.1007/s11082-023-06095-8 [https://link.springer.com/article/10.1007/s11082-023-06095-8 , referinta 1]	C (2 puncte) [https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.oct.2022.zone.pdf , pag. 156]	2
3	Tvalavadze, T., Gigashvili, K., Mania, E., Iavich, M. (2023). Automated Dating of Galaktion Tabidze's Handwritten Texts. In: Hu, Z., Dychka, I., He, M. (eds) <i>Advances in Computer Science for Engineering and Education VI. ICCSEEA 2023. Lecture Notes on Data Engineering and Communications Technologies</i> , vol 181. Springer, Cham.	D	1

	https://doi.org/10.1007/978-3-031-36118-0_23 [referinta 17]		
4	C. V. G. Rao, P. S. Dhaygude, A. Harika, A. Nagpal, M. Almusawi and S. S. Agrawal, "Enhancing Cybersecurity for Diabetes Patient Data in Cloud-Based IoT Using Advanced Machine Learning Algorithms," <i>2023 International Conference on Artificial Intelligence for Innovations in Healthcare Industries (ICAIIHI)</i> , Raipur, India, 2023, pp. 1-7, doi: 10.1109/ICAIIHI57871.2023.10489784(http://dx.doi.org/10.1109/ICAIIHI57871.2023.10489784). [referinta 10]	D	1
5	Article Source: A new method of rock type identification based on transformer by utilizing acoustic emission Wang T, Qin Y, P. G. R, Zhao W, Jiang J, et al. (2024) A new method of rock type identification based on transformer by utilizing acoustic emission. PLOS ONE 19(8): e0309165. https://doi.org/10.1371/journal.pone.0309165 . [referinta 27]	B (4 puncte) [https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.0ct.2022.zone.pdf , pag. 339]	4
6	Contoli, Chiara, Valerio Freschi, and Emanuele Lattanzi. "Energy-aware human activity recognition for wearable devices: A comprehensive review." <i>Pervasive and Mobile Computing</i> (2024): 101976. [referinta 9], [https://www.sciencedirect.com/science/article/pii/S1574119224001019#bib1],	B (4 puncte) [https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.0ct.2022.zone.pdf , pag. 513, primele 20% zona gri]	4

Total parțial: 16/(3-2)=16 puncte

Total parțial citări A*, A, B: 12/(3-2)=12 puncte

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2	Dahj, Jean Nestor M., Kingsley A. Ogudo, and Leandro Boonzaaier. "A novel heterogenous ensemble theory for symmetric 5G cells segmentation: Intelligent RAN analytics." <i>International Journal of Intelligent Networks</i> (2023). https://www.sciencedirect.com/science/article/pii/S2666603023000337 [referinta 9]	C [Jurnal Scopus, https://www.scopus.com/sourceid/21101101955]	2
3	HDIDOU, R., & EL ALAMI, M. O. H. A. M. E. D. (2024). INTRUSION DETECTION SYSTEMS IN INTERNET OF THINGS: A RECENT STATE OF THE ART. <i>Journal of Theoretical and Applied Information Technology</i> , 101(1). http://www.jatit.org/volumes/Vol102No1/25Vol102No1.pdf [referinta 70]	C [Jurnal Scopus, https://www.scopus.com/sourceid/19700182903]	2
4	Sofikitis, Dimitrios. (2024). Machine Learning and Security in System Vulnerability Detection and Prevention: a Review. (https://www.researchgate.net/publication/378593192_Machine_Learning_and_Security_in_System_Vulnerability_Detection_and_Prevention_a_Review/references) [referinta 3]	D	1
5	Fuqdan A. Al-Ibraheemi, Firas Hazzaa, Mohanad Sameer Jabbar , Jamal Fadhil Tawfeq , Ravi Sekhar, Pritesh Shah , Sushma Parihar. (2024). Intrusion Detection in Software-Defined Networks: Leveraging Deep Reinforcement Learning with Graph Convolutional Networks for Resilient Infrastructure. <i>Journal of Fusion: Practice and Applications</i> , 15 (1), 78-87 (Doi : https://doi.org/10.54216/FPA.150107) [referinta 19]	C (Jurnal Scopus, https://www.scopus.com/sourceid/21101134649)	2
6	Iavich, M., Odarchenko, R. (2024). Automated Penetration Testing in 5G Networks. In: Nechyporuk, M., Pavlikov, V., Krytskyi, D. (eds) <i>Integrated Computer Technologies in Mechanical Engineering - 2023. ICTM 2023. Lecture Notes in Networks and Systems</i> , vol 996. Springer, Cham. https://doi.org/10.1007/978-3-031-60549-9_33 , [referinta 19]	D	1
7	Kwubeghari, A., Chibueze, K. I., & Okoye, F. (2024). CYBER-THREAT DETECTION MODEL USING ARTIFICIAL NEURAL NETWORK AND NOVEL ADAPTIVE DROPOUT ALGORITHM FOR 5G NETWORK. În <i>ESUT Explorematics Journal of Innovative Engineering and Technology</i> (Vol. 5, Numărul 2, pp. 21–32). ESUT. https://doi.org/10.5281/zenodo.13384042 // https://www.researchgate.net/publication/383424770_Cyber-Threat_Detection_Model_Using_Artificial_Neural_Network_and_Novel_Adaptive_Dropout_Algorithm_For_5G_Network_references#fullTextFileContent , [referinta 6]	D	1

Total parțial: 10/1=10 puncte

Total parțial citări A*, A, B: 0

- Aldea CL, Bocu R, Vasilescu A. **Relevant Cybersecurity Aspects of IoT Microservices Architectures Deployed over Next-Generation Mobile Networks.** *Sensors*. 2023; 23(1):189. <https://doi.org/10.3390/s23010189>

1	Wang N, Wang L, Li X, Qin X. Fine-Grained Management for Microservice Applications with Lazy Configuration Distribution. <i>Electronics</i> . 2023; 12(16):3404. https://doi.org/10.3390/electronics12163404 [referinta 19]	C [2 https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.oct.2022.zone.pdf , pagina 156]
2	Ahmed Mohamed Zaki, Abdelaziz A. Abdelhamid, Abdelhameed Ibrahim, Marwa M. Eid, El-Sayed M. El-Kenawy. (2023). Metaheuristic Optimization for Enhancing Cyber Security Index Prediction: A DTO+FGW Approach with MLP Integration. <i>Journal of International Journal of Advances in Applied Computational Intelligence</i> , 4 (2), 15-25 (Doi : https://doi.org/10.54216/IJAACI.040202) [referinta 6]	D 1
3	Bilal , Omair, et al. "A Contemporary Secure Microservices Discovery Architecture With Service Tags for Smart City Infrastructures ". <i>VFAST Transactions on Software Engineering</i> , vol. 12, no. 1, Mar. 2024, pp. 79-92, https://doi.org/10.21015/vtse.v12i1.1752 . [referinta 37]	D 1
4	ЧАПЛЯ, О., & КЛИМ, Г. (2024). MICROSERVICE ARCHITECTURE FOR CYBER-PHYSICAL SYSTEMS. <i>Вісник Херсонського національного технічного університету</i> , (2 (89)), 242-250. [https://journals.kntu.kherson.ua/index.php/visnyk_kntu/article/view/655/627], [referinta 25]	D 1
5	Fontem, O. (2024). Strategies and Methods Used by Information Technology Security Professionals to Secure Cloud Access Infrastructure. [referinta 5] (https://scholarworks.waldenu.edu/cgi/viewcontent.cgi?article=17177&context=dissertations)	D 1
6	El Akhdar A, Baidada C, Kartit A, Hanine M, García CO, Lara RG, Ashraf I. Exploring the Potential of Microservices in Internet of Things: A Systematic Review of Security and Prospects. <i>Sensors</i> . 2024; 24(20):6771. [https://doi.org/10.3390/s24206771], [referinta 46]	B (4 puncte) [4 https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.oct.2022.zone.pdf , pag. 249]

Total parțial: 10/(3-2)=10 puncte

Total parțial citări A*, A, B: 4

- Aldea CL, Bocu R, Solca RN. **Real-Time Monitoring and Management of Hardware and Software Resources in Heterogeneous Computer Networks through an Integrated System Architecture.** *Symmetry*. 2023; 15(6):1134. <https://doi.org/10.3390/sym15061134>

1	Kabashkin I. End-to-End Service Availability in Heterogeneous Multi-Tier Cloud–Fog–Edge Networks. <i>Future Internet</i> . 2023; 15(10):329. https://doi.org/10.3390/fi15100329 [referinta 24]	C(Jurnal Scopus, https://www.scopus.com/sourceid/21100409311) (2puncte)	2
2	Anoop, M., Mary, L.W., Wilson, A.J. <i>et al.</i> Optimized graph transformer with molecule attention network based multi class attack detection framework for enhancing privacy and security in WSN. <i>Multimed Tools Appl</i> (2024). https://doi.org/10.1007/s11042-024-19516-x [referinta 4]	C(pagina 156)[https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.oct.2022.zone.pdf]	2
3	Fowdur, T.P., Babooram, L. (2024). Network Traffic Monitoring and Analysis. In: Machine Learning For Network Traffic and Video Quality Analysis. Apress, Berkeley, CA. https://doi.org/10.1007/979-8-8688-0354-3_2 [referinta 16]	D	1
4	Ben Brahim S, Dardouri S, Hammami A, Bouallegue R, David J, Vuong T-H. The Impact of an Electric Machine Body on EM Wave Propagation in RTMS. <i>Machines</i> . 2024; 12(8):545. https://doi.org/10.3390/machines12080545 [referinta 13]	C(pagina 155)[https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.oct.2022.zone.pdf]	2
5	F. W. Christanto, M. A. Faizi and E. A. Firdaus, "Network and Server Performance Monitoring Using LibreNMS, Telegram, and UniFi Controller," <i>2024 3rd International Conference on Creative Communication and Innovative Technology (ICCIIT)</i> , Tangerang, Indonesia, 2024, pp. 1-5, doi: 10.1109/ICCIIT62134.2024.10701087. [https://ieeexplore.ieee.org/abstract/document/10701087/reference#references], [referinta 12].	D	1

Total parțial: 8/(3-2)=8 puncte

Total parțial citări A*, A, B: 0

- Iavich, Maksim, Razvan Bocu, Arturo Arakelian, and Giorgi Iashvili. "Post-Quantum Digital Signatures with Attenuated Pulse Generator". In *IVUS*, pp. 42-45. 2020. [<https://ceur-ws.org/Vol-2698/p07.pdf>]

1	Iavich, Maksim, Tamari Kuchukhidze, and Tetiana Okhrimenko. "Verkle Tree-based Post-Quantum Digital Signature Scheme using Stateless Updatable Vector Commitment." <i>technology</i> 3 (2023): 7. https://ceur-ws.org/Vol-3550/paper13.pdf [referinta 12]	D	1
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Total parțial: 1/(4-2)=0.5 puncte

Total parțial citări A*, A, B: 0

- Iavich, Maksim, Tamari Kuchukhidze, and Razvan Bocu. "A Post-Quantum Digital Signature Using Verkle Trees and Lattices", *Symmetry* 15, no. 12 (2023): 2165. [<https://doi.org/10.3390/sym15122165>]

1	Iavich M, Kuchukhidze T. Investigating CRYSTALS-Kyber Vulnerabilities: Attack Analysis and Mitigation. <i>Cryptography</i> . 2024; 8(2):15. https://doi.org/10.3390/cryptography8020015 [referinta 6]	C (jurnal Scopus), [https://www.scopus.com/sourceid/21101039441]	2
2	Algazy, K., Sakan, K., Nyssanbayeva, S., & Lizunov, O. (2024). Syrga2: Post-Quantum Hash-Based Signature Scheme. <i>Computation</i> , 12(6), 125. [referinta 17] (https://doi.org/10.3390/computation12060125)	C (jurnal Scopus), [https://www.scopus.com/sourceid/21100857172]	2

Total parțial: 4/(3-2)=4 puncte

Total parțial citări A*, A, B: 0

- Bocu R. **Extended Review Concerning the Integration of Electrochemical Biosensors into Modern IoT and Wearable Devices.** *Biosensors*. 2024; 14(5):214. [<https://doi.org/10.3390/bios14050214>]

1	Karimian, S., Taheri, F., Farrokhi, M., Farrokhi, M., Bayat, Z., Mousavi Zadeh, S. A., Ghadirzadeh, E., Abdollahi, S. A., Bayanati, M., Ahmadpour, A., Nazary, A., Samadi, S., Noorbakhsh, M., Taherlou, S., Taherlou, A., Safari, M., Sedighi, A., Molaei, Z., Toussi, M., Honarvar, F., Sabouri, M., Mortazavi Moghadam, F., Askarinejad, A., Abbasmofrad, H., Alipour, M., Abbasian, N., Emtiazi, N., Hosseini Hooshir, M., Khorsandi, M., Khorsand, K., Riahi, F., & Hassanzadeh, H. (2024). Digital Health and Wearable Technologies. <i>Kindle</i> , 4(1), 1–240. Retrieved from https://preferpub.org/index.php/kindle/article/view/Book39 [referinta 139]	D	1
2	https://www.researchgate.net/profile/Sayed-Alireza-Mousavi-Zadeh-2/publication/381880444_Digital_Health_and_Wearable_Technologies_Authors/links/6683441ef3b61c4e2ca66477/Digital-Health-and-Wearable-Technologies-Authors.pdf [referinta 143]	D	1
3	Jubair, Hassan & Mehenaz, Mithela & Zhang, Leon. (2024). Semiconductor-Based Biosensors for Wearable Health Monitoring Devices: Enhancing Efficiency in Personal Healthcare Management. 10.13140/RG.2.2.22225.95847. [https://www.researchgate.net/publication/382939538_Semiconductor-Based_Biosensors_for_Wearable_Health_Monitoring_Devices_Enhancing_Efficiency_in_Personal_Healthcare_Management?channel=doi&linkId=66b3a7152361f42f23bd3cde&showFulltext=true#fullTextFileContent], [referinta 6]	D	1
4	Ghazanfar H, Javed N, Reina R, Thartori O, Ghazanfar A, Patel H. Advances in Diagnostic Modalities for <i>Helicobacter pylori</i> Infection. <i>Life</i> . 2024; 14(9):1170. [https://doi.org/10.3390/life14091170], [referinta 47]	C(Jurnal Scopus, https://www.scopus.com/sourceid/27202)	2

Total parțial: 5/1=5 puncte

Total parțial citări A*, A, B: 0

- Iavich, M., Akhalaia, G., Bocu, R. (2023). **Device Tracking Threats in 5G Network.** In: Barolli, L. (eds) *Advanced Information Networking and Applications. AINA 2023. Lecture Notes in Networks and Systems*, vol 655. Springer, Cham. [https://doi.org/10.1007/978-3-031-28694-0_46]

1	Astrakhantsev, A., Globa, L., Astrakhantsev, O. (2024). Computational Intelligence for Voice Call Security: Encryption and Mutual User Authentication. In: Luntovskyy, A., Klymash, M., Melnyk, I., Beshley, M., Schill, A. (eds) Digital Ecosystems: Interconnecting Advanced Networks with AI Applications. TCSET 2024. Lecture Notes in Electrical Engineering, vol 1198. Springer, Cham. https://doi.org/10.1007/978-3-031-61221-3_34 [referinta 19]	D	1
2	Machora, L. M. (2024). Cyber-security and performance Issues in 4G LTE network. <i>World Journal of Advanced Engineering Technology and Sciences</i> , 12(2), 622-662. [referinta 120], [https://wjaets.com/sites/default/files/WJAETS-2024-0328_0.pdf]	D	1
3	Owoko, Winnie. "Exploring the technological advancements and security issues of 5G", <i>World Journal of Advanced Research and Reviews</i> , (2024). [https://doi.org/10.30574/wjarr.2024.23.2.2367], [referinta 149]	D	1

Total parțial: $3/(3-2)=3$ puncte

Total parțial citări A*, A, B: 0

- Iavich, M., Kuchukhidze, T., Iashvili, G., Gnatyuk, S., & Bocu, R. (2021). **Novel Quantum Random Number Generator with the Improved Certification Method**. *International Journal of Mathematical Sciences and Computing (IJMSC)*, 7(3). [<https://meccspress.net/ijmsc/ijmsc-v7-n3/IJMSC-V7-N3-5.pdf>]

1	石琴, 鲁康源, 程腾, 王川宿, 张星, & 许佩玲. (2023). 基于量子密钥的车-云加密通信架构研究. <i>汽车工程</i> , 45(6), 936-943. [https://www.qichegongcheng.com/EN/Y2023/V45/I6/936], [referinta 7]	D	1
2	T. Cheng, Z. Wu, C. Wang, Q. Shi, X. Zhang and P. Xu, "Research on Vehicle-to-Cloud Communication Based on Lightweight Authentication and Extended Quantum Key Distribution," in <i>IEEE Transactions on Vehicular Technology</i> , vol. 73, no. 8, pp. 12082-12095, Aug. 2024, doi: 10.1109/TVT.2024.3382100. [https://ieeexplore.ieee.org/document/10480634/references#references], [referinta 31]	(PRECISI2023),A(pagina 512)[https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.oct.2022.zone.pdf]	8

Total parțial: $9/(5-2) = 3$ puncte

Total parțial citări A*, A, B: $8/(5-2) = 2.67$ puncte

Total parțial citări A*, A: $8/(5-2) = 2.67$ puncte

- **R., Bocu, A., Baicoianu, A., Kerestely, An Extended Survey Concerning the Significance of Artificial Intelligence and Machine Learning Techniques for Bug Triage and Management**, in *IEEE Access*, vol. 11, pp. 123924-123937, doi: 10.1109/ACCESS.2023.3329732, 2023. [<https://ieeexplore.ieee.org/abstract/document/10305170>]

1	J. Mejía, V. Terrón-Macias, M. Muñoz, M. Terrón-Hernández and M. Canseco-Pérez, "VSEST 29110 Tool: Using ChatGPT to evaluate the implementation of the ISO/IEC 29110 work products," in <i>IEEE Access</i> , doi: 10.1109/ACCESS.2024.3449252. [https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10646341], [https://www.researchgate.net/publication/383438203_VSEST_29110_Tool_Using_ChatGPT_to_evaluate_the_implementation_of_the_ISOIEC_29110_work_products/references#fullTextFileContent] [referinta 60]	(PRECISI2023), B [https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.oct.2022.zone.pdf], pag. 154]	4
2	E. H. Yilmaz, İ. H. Toroslu and Ö. Köksal, "A Comparative Study of Contemporary Learning Paradigms in Bug Report Priority Detection," in <i>IEEE Access</i> , doi: 10.1109/ACCESS.2024.3451125. [https://ieeexplore.ieee.org/document/10654280], [https://www.researchgate.net/publication/383514311_A_Comparative_Study_of_Contemporary_Learning_Paradigms_in_Bug_Report_Priority_Detection/fulltext/6d0a4ef64f7bf7b194895f1/A-Comparative-Study-of-Contemporary-Learning-Paradigms-in-Bug-Report-Priority-Detection.pdf], [referinta 9]	(PRECISI2023), B [https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.oct.2022.zone.pdf], pag. 154]	4
3	G. Kumar <i>et al.</i> , "Ensemble Balanced Nested Dichotomy Fuzzy Models for Software Requirement Risk Prediction," in <i>IEEE Access</i> , doi: 10.1109/ACCESS.2024.3473942. [https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10709888], [referinta 2]	(PRECISI2023), B [https://uefiscdi.gov.ro/resource-866361-cuartile.ais.jcr.19.oct.2022.zone.pdf], pag. 154]	4

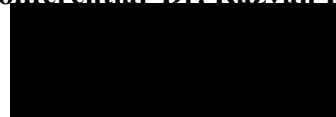
Total parțial: 12/(3-2) = 12 puncte

Total parțial citări A*, A, B: 12/(3-2) = 12 puncte

Brașov

Conferențiar Dr. Răzvan Bocu

30.10.2024



Pespectiva d) - Evaluare Performanță Academică

Total punctaj: 75,5 puncte [necesar 60 puncte]

Prag necesar: Am câștigat, în urma unui proces competitiv riguros, proiectul de cercetare științifică avansată NATO SPS „G7394 - Post-quantum Digital Signature using Verkle Trees”

Notă: Fișierele doveditoare se găsesc la această adresă (https://www.bocu.ro/download/Dovezi_perspectiva_d/), conform numelui specificat în acest document. Sunt furnizate, de asemenea, link-uri active directe.

1. Cărți / Capitole → 11 puncte (categoria i)

Contribuție	Tip	Scor
D., Bocu, R., Bocu, Incursiuni speculative in si dincolo de Ingineria Softului . ISBN 978-606-250-661-2, Editura Matrix ROM, Bucuresti, 2021. [https://www.emag.ro/incursiuni-speculative-in-si-dincolo-de-ingineria-softului-dorin-bocu-razvan-bocu-isf0/pd/DPYMSHMBM/]	D	2
D., Bocu, R., Bocu, Provocari si metode de abordare in managementul proiectelor IT . ISBN 978-973-650-299-6, Editura Albastră, Cluj-Napoca, 2013. [https://www.emag.ro/provocari-si-metode-de-abordare-in-managementul-proiectelor-it-dorin-bocu-razvan-bocu-alb978-973-650-299-6/pd/DCZV4BBBM/]	D	2
D., Bocu, R., Bocu, Modelarea obiect orientată cu UML. Fundamentele modelării cu UML. Inițiere în șabloane de proiectare utilizând sintaxa UML . ISBN 973-650-194-9, Editura Albastră, Cluj-Napoca, 2006. [https://www.librariaonline.ro/it_calculatoare/software/limbaje_de_programare/modelare_obiect_orientata_cu_uml-bocu_dorin-p10003850]	D	2
D., Bocu, R., Bocu, Introducere în universul Ingineriei Softului . ISBN 978-606-250-8166, Editura Matrix ROM, București, 2023. <<<[https://www.matrixrom.ro/produs/introducere-in-universul-ingineriei-softului/]>>>	D	2
D., Bocu, R., Bocu, The Role of the WEB Technologies in Connection to the Communication’s Streamlining and Diversification Between the Actors of a Learning System . Chapter published in the book “Social Media in Higher Education: Teaching in Web 2.0”, [DOI: 10.4018/978-1-4666-2970-7.ch011], 2013. [https://www.igi-global.com/chapter/role-web-technologies-connection-	E	1

communication/75355]		
R., Bocu, D., Bocu, Prietenul meu, calculatorul – Informatică pentru gimnaziu. Editura Universității Transilvania din Brașov, 2012. [https://www.unitbv.ro/editura-universitatii/publicatii/stiinte-exacte/1096-2012.html]	D	2

Total parțial 1): 11 puncte

2. Coordonator / Investigator Proiecte de cercetare → 31 puncte (categoria v)

Project	Funding Agency	Amount	Scor
NATO SPS G7394 - Post-quantum Digital Signature using Verkle Trees <i>G7394</i> [Director]	NATO, [G7394], https://www.bocu.ro/download/Dovezi_perspectiva_d/G7394.PDF	€101,350.00(Buget UNITBV), €203,000.00(Buget total)	6 pct.
Efficient algorithms for interactome networks/Dynamic Interactome Networks <i>RS/2007/166</i> [Coordonator]	Irish Research Council for Science, Engineering & Technology (IRCSET) [Dovada_1.jpeg, Dovada_2.jpeg, Dovada_3.jpeg] https://www.bocu.ro/download/Dovezi_perspectiva_d/Dovada_1.jpeg https://www.bocu.ro/download/Dovezi_perspectiva_d/Dovada_2.jpeg https://www.bocu.ro/download/Dovezi_perspectiva_d/Dovada_3.jpeg	€72,000.00	4 pct.
Brandingul destinatiilor si tehnici neconventionale de interpretare a patrimoniului <i>3415/25.04.2014</i> [Investigator]	Guvernul Romaniei / CJ Brașov [Dovada_prj_Branding.pdf] https://www.bocu.ro/download/Dovezi_perspectiva_d/Dovada_prj_Branding.pdf	<€50,000.00	1 pct.
Model-Driven European Paediatric Digital Repository <i>FP7-MDPaedegree/600932</i> [Investigator]	Uniunea Europeana / Guvernul Romaniei [Adeverinta_RBocu_MD_PDR.pdf] https://www.bocu.ro/download/Dovezi_perspectiva_d/Adeverinta_RBocu_MD_PDR.pdf	€272.680	4 pct.
Cyber Security and 5G League <i>CS5GL</i> [Investigator]	Guvernul din Georgia [Razvan Bocu _Eng_Georgia_1.pdf] https://www.bocu.ro/download/Dovezi_perspectiva_d/Razvan%20Bocu%20_Eng_Georgia_1.pdf	€18.100	1 pct.

Cyber Security Cisco academy for children <i>CSC_GE23</i> [Investigator]	Guvernul din Georgia [Razvan Bocu _Eng_Georgia_1.pdf] https://www.bocu.ro/download/Dovezi_perspectiva_d/Razvan%20Bocu%20_Eng_Georgia_1.pdf	€5.000	1 pct.
The novel approach of creating the post-quantum digital signature schemes <i>CSC_GE230024</i> [Investigator]	Guvernul din Georgia [Razvan Bocu _Eng_Georgia_1.pdf] https://www.bocu.ro/download/Dovezi_perspectiva_d/Razvan%20Bocu%20_Eng_Georgia_1.pdf	€249.650	4 pct.
Methodology of the development of secure multilayer '5G and beyond' networks for the needs of special groups of subscribers in Georgia <i>CSC_GE2302468</i> [Investigator]	Guvernul din Georgia [Razvan Bocu _Eng_Georgia_1.pdf] https://www.bocu.ro/download/Dovezi_perspectiva_d/Razvan%20Bocu%20_Eng_Georgia_1.pdf	€284.350	4 pct.
International School "Cyber Security and Artificial Intelligence" <i>CSC_GE22_CF23</i> [Investigator]	Guvernul din Georgia [Razvan Bocu _Eng_Georgia_1.pdf] https://www.bocu.ro/download/Dovezi_perspectiva_d/Razvan%20Bocu%20_Eng_Georgia_1.pdf	€18.700	1 pct.
Network of Excellence in Digital Technologies and AI Solutions for Electromechanical and Power Systems Applications <i>101079242 – HORIZON-WIDERA-2021-ACCESS-03</i> [Investigator]	Uniunea Europeană [Adeverinta_DITARTIS_02082023.jpg] https://www.bocu.ro/download/Dovezi_perspectiva_d/Adeverinta_DITARTIS_02082023.jpg	€1.462.364	5 pct.

Total parțial 2): 31 puncte

Parțial cumulat: 11+31=42 puncte

3. Profesor la o Universitate din top 300 → (2*36 luni)→24 puncte (categoria ix)

University College Cork este o universitate din top 300 (locul 273) [Dovada_UCC.png] la care am lucrat, in calitate de cadru didactic si cercetator, in perioada Octombrie 2007 – Octombrie

2010, fiind încadrat, plătit și tratat ca orice alt profesor irlandez, fapt certificat în documentul doveditor specificat. [Dovada_3.jpeg, Dovada_UCC.png],

https://www.bocu.ro/download/Dovezi_perspectiva_d/Dovada_3.jpeg

https://www.bocu.ro/download/Dovezi_perspectiva_d/Dovada_UCC.png

(<https://www.topuniversities.com/universities/university-college-cork>)

Total parțial 3): 24 puncte

Parțial cumulat: 42+24=66 puncte

4. Consolidarea de echipe de cercetare → 6 puncte (categoria x)

Coordonez grupul de cercetare *High Performance and Cloud Computing (HPCC)* din cadrul Facultății de Matematică și Informatică (Universitatea Transilvania din Brașov). [

https://mateinfo.unitbv.ro/images/cercetare/grupuri/HighPerformance_and_CloudComputing_v2_RO.pdf], infiintat in anul 2018 - **6 puncte**

Total parțial 4): 6 puncte

Parțial cumulat: 66+6=72 puncte

5. Director/editor al unei reviste/organizare evenimente științifice → 2 puncte (categoria vii)

Guest Editor al jurnalului “Symmetry” (ISSN - 2073-8994, categoria B), conform documentului https://uefiscdi.gov.ro/resource-868245-clasament2020_if.pdf (PRECISI 2021), pagina 343 .

[Este interpretabil daca se pot acorda 12 puncte conform perspectivei d pct. iv). Pentru siguranta, il incadram in categoria d vii), se acorda 2 puncte.]

https://www.mdpi.com/journal/symmetry/special_issues/Technical_Challenges_Symmetries_Next_Generation_Mobile_Networks

Notă: Nu am inclus participările ca membru TCP sau/și în echipa de recenzori la numeroase conferințe internaționale, implicarea în organizarea variatelor evenimente științifice, activitatea de evaluator/recenzor pentru numeroase jurnale Q1 și Q2 Clarivate, și așa mai departe.

Total parțial 5): 2 puncte

Parțial cumulat: 72+2=74 puncte

6. Membru in comisiile de evaluare a tezelor de doctorat → 0,5 puncte (categoria xi)

- Teza de doctorat Vaidotas Drungilas (Universitatea Tehnica din Kaunas, 20 iunie 2024) [Doctoral_Committee_Lituania_20062024.jpg], 0,5 puncte

https://www.bocu.ro/download/Dovezi_perspectiva_d/Doctoral_Committee_Lituania_20062024.jpg

Total parțial 6): 0,5 puncte

Parțial cumulat: $74+0,5=74,5$ puncte

- 7. Profesor invitat la conferința internațională „International Scientific-Practical Conference on Telecommunication and Security” (10-11 Octombrie 2024, Tbilisi, Georgia), [Dovada_Invited_Speaker_Oct2024.jpg] → 1 punct (categoria viii)**
https://www.bocu.ro/download/Dovezi_perspectiva_d/Dovada_Invited_Speaker_Oct2024.jpg

Total parțial 7): 1 punct

Parțial cumulat: $74,5+1=75,5$ puncte

Total cumulat: 75,5 puncte

Brașov

Conferențiar Dr. Răzvan Bocu

30.10.2024

