

### Fișa de verificare

Numele și prenumele candidatului: Zadobrischi Eduard

Denumirea postului didactic: Asistent universitar Poziția din statul de funcții - 39

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

Nr. crt.	Denumire standard	Documentele care dovedesc îndeplinirea standardelor	Medie
1.	Doctor / doctorand	Doctorand - adeverință	---
2.	Media examenului de finalizare a studiilor	Diplomă de licență seria E nr. 0043085 Diplomă de master seria MA nr. 0045341	9.06

#### 1. Punctaj pentru performanțe didactice și cercetare științifică – asistent universitar de cercetare, asistent universitar, șef de lucrări/lector universitar

Nr. crt.	Denumire indicator	Documentele care dovedesc îndeplinirea indicatorului	Punctaj
1.	Cercetare științifică	2.9. Articol / studiu publicat în revistă cotate ISI (A) / ERIH. (FI – factor de impact; SRI – scor relativ de influență)	1318.03
		2.12. Articol / studiu publicat în volumele manifestărilor științifice la conferințe cu proceedings-uri indexate ISI.	342.46
		2.22. Lucrare susținută la manifestare științifică din străinătate (confirmare prin documente, delegație).	30
		2.23. Lucrare susținută la manifestare științifică din țară (confirmare prin documente, delegație).	25
		2.39. Cercetător în proiect / grant / contract de cercetare internațional.	20
		2.40. Cercetător în proiect / grant / contract de cercetare național.	616.22
		2.52. Susținere referat în cadrul doctoratului.	75
2.	Recunoaștere națională și internațională	3.5. Recenzor la revistă cotate ISI (A) / ERIH. (FI – factor de impact; SRI – scor relativ de influență)	806.65
		3.45. Citare în: revistă cotate ISI sau echivalent ERIH, **punctaj acordat în anul citării (se consideră o singură citare într-o lucrare).	954.7
		3.56. Premiarea rezultatelor cercetării.	105.99

**TOTAL PUNCTAJ: 4216.13 puncte**

## Cercetarea științifică

Nr.	Indicatori	Punctaj final	
		Factor – F	Propunere
2.9.	Articol / studiu publicat în revistă cotate ISI (A) / ERIH. (FI – factor de impact; SRI – scor relativ de influență)	100	$F + 50 \times (FI + SRI)$ nr. autori *
Nr.	Denumire	Nr.autori	Punctaj
1	<b>Zadobrischi, E.</b> Intelligent Traffic Monitoring through Heterogeneous and Autonomous Networks Dedicated to Traffic Automation. Sensors 2022, 22, 7861.	1	354.85
2	Beguni, C.; Căilean, A.-M.; Avătămăniței, S.-A.; <b>Zadobrischi, E.</b> ; Stoler, R.; Dimian, M.; Popa, V.; Béchadergue, B.; Chassagne, L. In-Vehicle Visible Light Communications Data Transmission System Using Optical Fiber Distributed Light: Implementation and Experimental Evaluation. Sensors 2022, 22, 6738.	9	39.42
3	<b>Zadobrischi, E.</b> ; Cosovanu, L.-M.; Dimian, M. Traffic Flow Density Model and Dynamic Traffic Congestion Model Simulation Based on Practice Case with Vehicle Network and System Traffic Intelligent Communication. Symmetry 2020, 12, 1172.	3	86.7
4	<b>Zadobrischi, E.</b> ; Dimian, M. Vehicular Communications Utility in Road Safety Applications: A Step toward Self-Aware Intelligent Traffic Systems. Symmetry 2021, 13, 438.	2	130.06
5	<b>Zadobrischi, E.</b> ; Dimian, M. Inter-Urban Analysis of Pedestrian and Drivers through a Vehicular Network Based on Hybrid Communications Embedded in a Portable Car System and Advanced Image Processing Technologies. Remote Sens. 2021, 13, 1234.	2	203
6	<b>Zadobrischi, E.</b> ; Dimian, M.; Negru, M. The Utility of DSRC and V2X in Road Safety Applications and Intelligent Parking: Similarities, Differences, and the Future of Vehicular Communication. Sensors 2021, 21, 7237. <a href="https://doi.org/10.3390/s21217237">https://doi.org/10.3390/s21217237</a>	3	113
7	<b>Zadobrischi, E.</b> Analysis and Experimental of Wireless Optical Communications in Applications Dedicated to Mobile Devices with Applicability in the Field of Road and Pedestrian Safety. Sensors 2022, 22, 1023. <a href="https://doi.org/10.3390/s22031023">https://doi.org/10.3390/s22031023</a>	1	341
8	Nistor, A.; <b>Zadobrischi, E.</b> Analysis and Estimation of Economic Influence of IoT and Telecommunication in Regional Media Based on Evolution and Electronic Markets in Romania. Telecom 2022, 3, 195-217.	2	50

	<a href="https://doi.org/10.3390/telecom3010013">https://doi.org/10.3390/telecom3010013</a>		
		<b>Total</b>	<b>1318.03</b>
2.12.	Articol / studiu publicat în volumele manifestărilor științifice la conferințe cu proceedings-uri indexate ISI.	100	F/nr.autori*
<b>Nr.</b>	<b>Denumire</b>	<b>Nr.autori</b>	<b>Punctaj</b>
1	<b>E. Zadobrischi</b> , L. Cosovanu, S. Avătămăniței and A. Căilean, "Complementary Radiofrequency and Visible Light Systems for Indoor and Vehicular Communications," 2019 23rd International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2019, pp. 419-423, doi: 10.1109/ICSTCC.2019.8885570.	4	25
2	<b>E. Zadobrischi</b> , S. Avătămăniței, A. Căilean, M. Dimian and M. Negru, "Toward a hybrid vehicle communication platform based on VLC and DSRC technologies," 2019 IEEE 15th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, Romania, 2019, pp. 103-107, doi: 10.1109/ICCP48234.2019.8959672.	5	20
3	S.-A. Avatamanitei, A. M. Cailean, <b>E. Zadobrischi</b> , A. Done, M. Dimian, V. Popa, "Intensive Testing of Infrastructure-to-Vehicle Visible Light Communications in Real Outdoor Scenario: Evaluation of a 50 meters link in Direct Sun Exposure," 2019 Global LIFI Congress (GLC), Paris, 2019, pp. 1-4.	6	16.6
4	Cătălin Beguni; Sebastian-Andrei Avătămăniței; Alin-Mihai Căilcan; <b>Eduard Zadobrischi</b> ; Mihai Dimian; Hongyu Guan; Luc Chassagne, "Toward a mixed visible light communications and ranging system for automotive applications," 2019 6th International Symposium on Electrical and Electronics Engineering (ISEEE), 2019, pp. 1-6.	7	14.2
5	<b>E. Zadobrischi</b> , "System Prototype Proposed for Vehicle Communications Based on VLC-RF Technologies Adaptable on Infrastructure," 2020 International Conference on Development and Application Systems (DAS), 2020, pp. 78-83	1	100
6	<b>E. Zadobrischi</b> and M. Negru, ""Pedestrian detection based on TensorFlow YOLOv3 embedded in a portable system adaptable to vehicles,"" 2020 International Conference on Development and Application Systems (DAS), 2020, pp. 21-26.	2	50
7	<b>E. Zadobrischi</b> , L. -M. Cosovanu and M. Dimian, ""Benefits of a Portable Warning System Adaptable to Vehicles Dedicated for Seat Belts Detection,"" 2020 24th International Conference on System Theory, Control and Computing (ICSTCC), 2020, pp. 892-897.	3	33.33
8	L. -M. Cosovanu, <b>E. Zadobrischi</b> and M. Dimian, ""Optical amplification on automotive VLC applications,"" 2020 24th International Conference on System Theory, Control and	3	33.33

	Computing (ICSTCC), 2020, pp. 699-704.		
9	L. -M. Cosovanu, E. Zadoberischi, M. Dimian and E. Plascencia, "Unified Road Infrastructure Safety System using Visible Light Communication," 2020 28th Telecommunications Forum (TELFOR), 2020, pp. 1-4.	4	25
10	E. Zadoberischi, L. -M. Cosovanu, M. Negru and M. Dimian, "Detection of Emotional States Through the Facial Expressions of Drivers Embedded in a Portable System Dedicated to Vehicles," 2020 28th Telecommunications Forum (TELFOR), 2020, pp. 1-4.	4	25
		<b>Total</b>	<b>342.46</b>

Nr.	Indicatori	Punctaj final	
		Factor – F	Propunere
2.22.	Lucrare susținută la manifestare științifică din străinătate (confirmare prin documente, delegație).	10	F
Nr.	Denumire	Nr. autori	Punctaj
1	E. Zadoberischi, L. -M. Cosovanu, M. Negru and M. Dimian, "Detection of Emotional States Through the Facial Expressions of Drivers Embedded in a Portable System Dedicated to Vehicles," 2020 28th Telecommunications Forum (TELFOR), 2020, pp. 1-4.		10
2	L. -M. Cosovanu, E. Zadoberischi, M. Dimian and E. Plascencia, "Unified Road Infrastructure Safety System using Visible Light Communication," 2020 28th Telecommunications Forum (TELFOR), 2020, pp. 1-4.		10
3	S.-A. Avatamanitei, A. M. Cailean, E. Zadoberischi, A. Done, M. Dimian, V. Popa, "Intensive Testing of Infrastructure-to-Vehicle Visible Light Communications in Real Outdoor Scenario: Evaluation of a 50 meters link in Direct Sun Exposure," 2019 Global LIFI Congress (GLC), Paris, 2019, pp. 1-4.		10
		<b>Total</b>	<b>30</b>
2.23.	Lucrare susținută la manifestare științifică din țară (confirmare prin documente, delegație).	5	F
Nr.	Denumire	Nr. autori	Punctaj
1	L. -M. Cosovanu, E. Zadoberischi and M. Dimian, "Optical amplification on automotive VLC applications," 2020 24th International Conference on System Theory, Control and Computing (ICSTCC), 2020, pp. 699-704.		5
2	E. Zadoberischi, L. -M. Cosovanu and M. Dimian, "Benefits of a Portable Warning System Adaptable to Vehicles Dedicated for Seat Belts Detection," 2020 24th International Conference on System		5

	Theory, Control and Computing (ICSTCC), 2020, pp. 892-897.		
3	E. Zadobrischi, S. Avătămăniței, A. Căilean, M. Dimian and M. Negru, "Toward a hybrid vehicle communication platform based on VLC and DSRC technologies," 2019 IEEE 15th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, Romania, 2019, pp. 103-107, doi: 10.1109/ICCP48234.2019.8959672.		5
4	E. Zadobrischi, L. Cosovanu, S. Avătămăniței and A. Căilean, "Complementary Radiofrequency and Visible Light Systems for Indoor and Vehicular Communications," 2019 23rd International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2019, pp. 419-423, doi: 10.1109/ICSTCC.2019.8885570.		5
5	Cătălin Beguni; Sebastian-Andrei Avătămăniței; Alin-Mihai Căilcan; Eduard Zadobrischi; Mihai Dimian; Hongyu Guan; Luc Chassagne, "Toward a mixed visible light communications and ranging system for automotive applications," 2019 6th International Symposium on Electrical and Electronics Engineering (ISEEE), 2019, pp. 1-6.		5
<b>Total</b>			<b>25</b>

Nr.	Indicatori	Punctaj final	
		Factor – F	Propunere
2.39.	Cercetător în proiect / grant / contract de cercetare internațional.	20	F + (nr. ore activitate cercetare plătite)/22
Nr.	Denumire	Punctaj	
1	Proiect PNIII, "Dezvoltarea de sisteme adaptive de comunicații auto cu funcții de măsurare a distanței între autovehicule, bazat pe tehnologii prin lumină vizibilă", cod proiect PN-III-P3-3.1-PM-RO-FR-2019-0282, contract nr.21BM/2019, perioada de derulare 16.07.2019—31.12.2020, partener Université de Versailles Saint-Quentin-en-Yvelines - Université Paris-Saclay.		20
<b>Total</b>		<b>20</b>	
2.40.	Cercetător în proiect / grant / contract de cercetare național.	5	F + (nr. ore activitate cercetare plătite)/22
Nr.	Denumire	Punctaj	
1	Proiect POCU, "Sprijin pentru doctoranzi și cercetători post-doctorat", "DECIDE - Dezvoltare prin educație antreprenorială și cercetare inovativă doctorală și postdoctorală", cofinanțat din Programul Operațional Capital Uman 2014-2020, contract nr. 45649/20.06.2019, POCU/380/6/13, Cod SMIS 2014+: 125031, perioadă de derulare 03.2020 – 04.2021.		5.45
<b>Total</b>		<b>305.33</b>	

	inteligente de asistență și siguranță activă a autovehiculelor”, cod proiect PN-III-P3-1.2-PCCDI-2017-0917, contract nr. 21PCCDI/2018, perioada de derulare 01.2018—11.2022 în cadrul Universității Tehnice din Cluj-Napoca.		
3	Proiect PNIII, “Conexiuni între automobile prin intermediul comunicațiilor prin lumină vizibilă (C2C-VLC)”, cod proiect PN-III-P1-1.1-TE-2021-1371, contract nr. TE10/2022, perioada de derulare 27.04.2022 – 26.04.2024.		52.72
4	Proiect PNIII, “Lumină pentru orbi: Sistem de asistență a persoanelor nevăzătoare bazat pe tehnologia comunicațiilor prin lumină vizibilă - Light4Blind”, cod proiect PN-III-P2-2.1-PED-2021-4233, contract nr. 692PED/24.06.2022, perioada de derulare 24.06.2022 – 26.06.2024.		52.72
		<b>Total</b>	<b>416.22</b>
2.52.	Susținere referat în cadrul doctoratului.	25	F
<b>Nr.</b>	<b>Denumire</b>	<b>Punctaj</b>	
1	Referat 1 - Stadiul actual al cercetării și dezvoltării în domeniul comunicațiilor VLC-RF		25
2	Referat 2 – Analiza comunicațiilor RF-VLC hibride cu aplicații în domeniul auto		25
3	Referat 3 – Contribuții la dezvoltarea comunicațiilor RF-VLC hibride. Aplicații și implementări în domeniul auto.		25
		<b>Total</b>	<b>75</b>
2.53.	Raport de cercetare științifică susținut în departament.	20	F

## 2. Recunoaștere națională și internațională

Nr.	Indicatori	Punctaj final	
		Factor – F	Propunere
3.5.	Recenzor la revistă cotate ISI (A) / ERIH. (FI – factor de impact; SRI – scor relativ de influență)	20	$[F+10 \times (FI + SRI)] + \text{nr. recenzii}$
<b>Nr.</b>	<b>Denumire</b>	<b>Recenzii</b>	<b>Punctaj</b>
1.	IEEE Access: The Multidisciplinary Open Access Journal	8	68.84
2	Remote Sensing - MDPI	3	87.65
3	Sustainability - MDPI	2	70.69
4	Applied Sciences - MDPI	6	60.19
5	Telecom - MDPI	1	30
6	Electronics - MDPI	1	51
7	Future Internet - MDPI	1	81

8	Coatings - MDPI	1	56.7
9	Mathematics - MDPI	1	52.3
10	Sensors - MDPI	4	72
11	Energies - MDPI	6	62.9
12	World Electric Vehicle Journal - MDPI	2	52.1
13	Cogent Engineering – Taylor & Francis Online	1	61.28
		<b>Total</b>	<b>806.65</b>

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Nr.	Indicatii	Punctaj final	
		Factor – F	Propunere
3.45.	Citare în: revistă cotate ISI sau echivalent ERIH, **punctaj acordat în anul citării (se consideră o singură citare într-o lucrare).	15	$F + 10 \times (FI + SRI)$ nr. autori *
Nr.	Denumire	Nr. autori	Punctaj
1	<p><b>Zadobrischi, E.; Cosovanu, L.-M.; Dimian, M. Traffic Flow Density Model and Dynamic Traffic Congestion Model Simulation Based on Practice Case with Vehicle Network and System Traffic Intelligent Communication. Symmetry 2020, 12, 1172. <a href="https://doi.org/10.3390/sym12071172">https://doi.org/10.3390/sym12071172</a></b></p> <p><b>Citarea 1 din 20 – Q2 (65.17/3)</b></p> <p>Adamczak, M.; Toboła, A.; Fijałkowska, J.; Cyplik, P.; Tórz, M. Analysis of Incentives to Eco-Driving for Car Rental Companies' Customers. Sustainability 2020, 12, 10579. <a href="https://doi.org/10.3390/su122410579">https://doi.org/10.3390/su122410579</a></p> <p><b>Citarea 2 din 20 – Q2 (65.17/3)</b></p> <p>Song, Z.; Sun, F.; Zhang, R.; Du, Y.; Zhou, G. An Improved Cellular Automaton Traffic Model Based on STCA Model Considering Variable Direction Lanes in I-VICS. Sustainability 2021, 13, 13626. <a href="https://doi.org/10.3390/su132413626">https://doi.org/10.3390/su132413626</a></p> <p><b>Citarea 3 din 20 – Q2 (65.17/3)</b></p> <p>Nasution, S.M.; Husni, E.; Kuspriyanto, K.; Yusuf, R.; Yahya, B.N. Contextual Route Recommendation System in Heterogeneous Traffic Flow. Sustainability 2021, 13, 13191. <a href="https://doi.org/10.3390/su132313191">https://doi.org/10.3390/su132313191</a></p> <p><b>Citarea 4 din 20 – Q1 (62.47/3)</b></p> <p>Avătămăniței, S.-A.; Beguni, C.; Căilean, A.-M.; Dimian, M.; Popa, V. Evaluation of Misalignment Effect in Vehicle-to-Vehicle Visible Light Communications: Experimental Demonstration of a 75 Meters Link. Sensors 2021, 21, 3577. <a href="https://doi.org/10.3390/s21113577">https://doi.org/10.3390/s21113577</a></p> <p><b>Citarea 5 din 20 – Q1 (62.47/3)</b></p> <p>Beguni, C.; Căilean, A.-M.; Avătămăniței, S.-A.; Dimian, M. Analysis and Experimental Investigation of the Light Dimming Effect on Automotive Visible Light Communications Performances. Sensors 2021, 21, 4446. <a href="https://doi.org/10.3390/s21134446">https://doi.org/10.3390/s21134446</a></p> <p><b>Citarea 6 din 20 – Q1 (62.47/3)</b></p> <p>Zhang, L.; Khalgui, M.; Li, Z. Predictive Intelligent Transportation: Alleviating Traffic Congestion in the Internet of</p>	3	273.44

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Vehicles. Sensors 2021, 21, 7330.  
<https://doi.org/10.3390/s21217330>

**Citarea 7 din 20 – Q2 (48/3)**

Khoshavi, N.; Tristani, G.; Sargolzaei, A. Blockchain Applications to Improve Operation and Security of Transportation Systems: A Survey. Electronics 2021, 10, 629.  
<https://doi.org/10.3390/electronics10050629>

**Citarea 8 din 20 – Q2 (70/3)**

Wang, X.; Han, J.; Bai, C.; Shi, H.; Zhang, J.; Wang, G. Research on the Impacts of Generalized Preceding Vehicle Information on Traffic Flow in V2X Environment. Future Internet 2021, 13, 88.  
<https://doi.org/10.3390/fi13040088>

**Citarea 9 din 20 – Q2 (46/3)**

Zhan, L.; Zhao, H.; Zhang, W.; Lin, J. An Optimal Scheme for the Number of Mirrors in Vehicular Visible Light Communication via Mirror Array-Based Intelligent Reflecting Surfaces. Photonics 2022, 9, 129.  
<https://doi.org/10.3390/photonics9030129>

**Citarea 10 din 20 – Q2 (52.2/3)**

Alsaawy, Y.; Alkhodre, A.; Abi Sen, A.; Alshantiti, A.; Bhat, W.A.; Bahboub, N.M. A Comprehensive and Effective Framework for Traffic Congestion Problem Based on the Integration of IoT and Data Analytics. Appl. Sci. 2022, 12, 2043.  
<https://doi.org/10.3390/app12042043>

**Citarea 11 din 20 – Q2 (33.5/3)**

Wenhao Ren, Junyou Zhang, Li Li, Qian Zhou, "An Intersection Platoon Speed Control Model Considering Traffic Efficiency and Energy Consumption in CVIS", Mathematical Problems in Engineering, vol. 2021, Article ID 2891247, 17 pages, 2021.  
<https://doi.org/10.1155/2021/2891247>

**Citarea 12 din 20 – Q2 (33.5/3)**

Yusheng Han, "Optimization and Simulation of Accounting Information Practice Model Assisted by Discrete Dynamic Events", Mathematical Problems in Engineering, vol. 2022, Article ID 8208903, 9 pages, 2022.  
<https://doi.org/10.1155/2022/8208903>

**Citarea 13 din 20 – Q1 (102.2/3)**

Md Masuduzzaman, Anik Islam, Kazi Sadia, Soo Young Shin, UAV-based MEC-assisted automated traffic management scheme using blockchain, Future Generation Computer Systems, Volume 134, 2022, Pages 256-270, ISSN 0167-739X,  
[\(https://www.sciencedirect.com/science/article/pii/S0167739X22001418\)](https://doi.org/10.1016/j.future.2022.04.018)

**Citarea 14 din 20 – Q2 (52/3)**

Samim Mustafa, Hidehiko Sekiya, Iwao Maeda, Shozo Takaba, Aya Hamajima, Identification of external load

	<p>information using distributed optical fiber sensors embedded in an existing road pavement, Optical Fiber Technology, Volume 67, 2021, 102705, ISSN 1068-5200, <a href="https://doi.org/10.1016/j.yofte.2021.102705">https://doi.org/10.1016/j.yofte.2021.102705</a>.</p>		
2	<p><b>Zadobrischi, E.;</b> Dimian, M. Vehicular Communications Utility in Road Safety Applications: A Step toward Self-Aware Intelligent Traffic Systems. Symmetry 2021, 13, 438. <a href="https://doi.org/10.3390/sym13030438">https://doi.org/10.3390/sym13030438</a></p> <p><b>Citarea 1 din 12 – Q3 (72/2)</b></p> <p>Wang, X.; Han, J.; Bai, C.; Shi, H.; Zhang, J.; Wang, G. Research on the Impacts of Generalized Preceding Vehicle Information on Traffic Flow in V2X Environment. Future Internet 2021, 13, 88. <a href="https://doi.org/10.3390/fi13040088">https://doi.org/10.3390/fi13040088</a></p> <p><b>Citarea 2 din 12 – Q1 (62.8/2)</b></p> <p>Zhang, L.; Khalgui, M.; Li, Z. Predictive Intelligent Transportation: Alleviating Traffic Congestion in the Internet of Vehicles. Sensors 2021, 21, 7330. <a href="https://doi.org/10.3390/s21217330">https://doi.org/10.3390/s21217330</a></p> <p><b>Citarea 3 din 12 – Q2 (50.8/2)</b></p> <p>Sznura, M.; Przystałka, P. Development of a Power and Communication Bus Using HIL and Computational Intelligence. Appl. Sci. 2021, 11, 8709. <a href="https://doi.org/10.3390/app11188709">https://doi.org/10.3390/app11188709</a></p> <p><b>Citarea 4 din 12 – Q1 (49.2/2)</b></p> <p>Jalel Chebil, Hanene Zormati, Jamel Belhadj Taher, "Geometry-Based Channel Modelling for Vehicle-to-Vehicle Communication: A Review", International Journal of Antennas and Propagation, vol. 2021, Article ID 4293266, 10 pages, 2021. <a href="https://doi.org/10.1155/2021/4293266">https://doi.org/10.1155/2021/4293266</a></p> <p><b>Citarea 5 din 12 – Q3 (49.2/2)</b></p> <p>Mahmoud Zaki Iskandarani, "Handover between Vehicular Network Providers Using Bioinspired Attractor Selection Technique", Journal of Electrical and Computer Engineering, vol. 2022, Article ID 8528313, 13 pages, 2022. <a href="https://doi.org/10.1155/2022/8528313">https://doi.org/10.1155/2022/8528313</a></p> <p><b>Citarea 6 din 12 – Q2 (48.7/2)</b></p> <p>Aleshkin, A. The Influence of Transport Link Density on Conductivity If Junctions and/or Links Are Blocked. Mathematics 2021, 9, 1278. <a href="https://doi.org/10.3390/math9111278">https://doi.org/10.3390/math9111278</a></p> <p><b>Citarea 7 din 12 – Q2 (55.8/2)</b></p> <p>M. Z. Iskandarani, "Computing Effective Vehicular Network Connectivity Using Gaussian Based Attractor Selection Technique (GAST)," in IEEE Access, vol. 10, pp. 51110-51119, 2022, doi: 10.1109/ACCESS.2022.3174578.</p> <p><b>Citarea 8 din 12 – Q1 (127.9/2)</b></p> <p>V. Katariya, M. Baharani, N. Morris, O. Shoghli and H.</p>	2	257.8

	Tabkhi, "DeepTrack: Lightweight Deep Learning for Vehicle Trajectory Prediction in Highways," in IEEE Transactions on Intelligent Transportation Systems, doi: 10.1109/TITS.2022.3172015.		
3	<p>Zadobrischi, E. Analysis and Experiment of Wireless Optical Communications in Applications Dedicated to Mobile Devices with Applicability in the Field of Road and Pedestrian Safety. Sensors 2022, 22, 1023. <a href="https://doi.org/10.3390/s22031023">https://doi.org/10.3390/s22031023</a></p> <p><b>Citarea 1 din 3 – Q1 (62.3)</b></p> <p>Căilean, A.-M.; Beguni, C.; Avătămăniței, S.-A.; Dimian, M.; Popa, V. Design, Implementation and Experimental Investigation of a Pedestrian Street Crossing Assistance System Based on Visible Light Communications. Sensors 2022, 22, 5481. <a href="https://doi.org/10.3390/s22155481">https://doi.org/10.3390/s22155481</a></p> <p><b>Citarea 2 din 3 – Q2 (59.89)</b></p> <p>Jabbari, M.; Ahmadi, Z.; Ramos, R. Defining a Digital System for the Pedestrian Network as a Conceptual Implementation Framework. Sustainability 2022, 14, 2528. <a href="https://doi.org/10.3390/su14052528">https://doi.org/10.3390/su14052528</a></p> <p><b>Citarea 3 din 3 – Q1 (59.89)</b></p> <p>Lai, C.; Yang, Q.; Guo, Y.; Bai, F.; Sun, H. Semantic Segmentation of Panoramic Images for Real-Time Parking Slot Detection. Remote Sens. 2022, 14, 3874. <a href="https://doi.org/10.3390/rs14163874">https://doi.org/10.3390/rs14163874</a></p>		170.41
4	<p>E. Zadobrischi, "System Prototype Proposed for Vehicle Communications Based on VLC-RF Technologies Adaptable on Infrastructure," 2020 International Conference on Development and Application Systems (DAS), 2020, pp. 78-83, doi: 10.1109/DAS49615.2020.9108908.</p> <p><b>Citarea 1 din 1 – Q2 (55.86)</b></p> <p>H. Abuella et al., "Hybrid RF/VLC Systems: A Comprehensive Survey on Network Topologies, Performance Analyses, Applications, and Future Directions," in IEEE Access, vol. 9, pp. 160402-160436, 2021, doi: 10.1109/ACCESS.2021.3129154.</p>		55.86
5	<p>Zadobrischi, E.; Dimian, M. Inter-Urban Analysis of Pedestrian and Drivers through a Vehicular Network Based on Hybrid Communications Embedded in a Portable Car System and Advanced Image Processing Technologies. Remote Sens. 2021, 13, 1234. <a href="https://doi.org/10.3390/rs13071234">https://doi.org/10.3390/rs13071234</a></p> <p><b>Citarea 1 din 5 – Q1 (62.47)</b></p> <p>Beguni, C.; Căilean, A.-M.; Avătămăniței, S.-A.; Dimian, M. Analysis and Experimental Investigation of the Light Dimming Effect on Automotive Visible Light Communications Performances. Sensors 2021, 21, 4446. <a href="https://doi.org/10.3390/s21134446">https://doi.org/10.3390/s21134446</a></p>		293.63

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6	<p>Zadobrischi, E.; Dimian, M.; Negru, M. The Utility of DSRC and V2X in Road Safety Applications and Intelligent Parking: Similarities, Differences, and the Future of Vehicular Communication. Sensors 2021, 21, 7237. <a href="https://doi.org/10.3390/s21217237">https://doi.org/10.3390/s21217237</a></p> <p><b>Citarea 1 din 1 – Q1 (62.47)</b></p> <p>Lai, C.; Yang, Q.; Guo, Y.; Bai, F.; Sun, H. Semantic Segmentation of Panoramic Images for Real-Time Parking Slot Detection. Remote Sens. 2022, 14, 3874. <a href="https://doi.org/10.3390/rs14163874">https://doi.org/10.3390/rs14163874</a></p>		27
		<b>Total</b>	<b>1077</b>
3.46.	Citare în: revistă indexată în bază de date internațională (B+, B) / carte publicată de autor străin / carte publicată în editură recunoscută CNCS (CNCSIS), **punctaj acordat în anul citării (se consideră o singură citare într-o lucrare).	5	F/nr.autori*
3.56.	Premierea rezultatelor cercetării.	35	(F + suma/1000) /nr.autori*
<b>Nr.</b>	<b>Denumire</b>	<b>Nr.autori</b>	<b>Punctaj</b>
1	<b>Zadobrischi, E.</b> ; Cosovanu, L.-M.; Dimian, M. Traffic Flow Density Model and Dynamic Traffic Congestion Model Simulation Based on Practice Case with Vehicle Network and System Traffic Intelligent Communication. Symmetry 2020, 12, 1172. – <b>Q2 Quartile, IF(2020) – 2.612</b>	3	<b>12.33</b>

2	<b>Zadobrischi, E.;</b> Dimian, M. Vehicular Communications Utility in Road Safety Applications: A Step toward Self-Aware Intelligent Traffic Systems. Symmetry 2021, 13, 438. - <b>Q2 Quartile, IF(2021) – 2.652</b>	2	<b>18.5</b>
3	<b>Zadobrischi, E.;</b> Dimian, M. Inter-Urban Analysis of Pedestrian and Drivers through a Vehicular Network Based on Hybrid Communications Embedded in a Portable Car System and Advanced Image Processing Technologies. Remote Sens. 2021, 13, 1234. - <b>Q1 Quartile, IF(2021) – 4.652</b>	2	<b>20.5</b>
4	<b>Zadobrischi, E.;</b> Dimian, M.; Negru, M. The Utility of DSRC and V2X in Road Safety Applications and Intelligent Parking: Similarities, Differences, and the Future of Vehicular Communication. Sensors 2021, 21, 7237. - <b>Q1 Quartile, IF(2021) – 3.752</b>	3	<b>13.66</b>
5	<b>Zadobrischi, E.</b> Analysis and Experimental of Wireless Optical Communications in Applications Dedicated to Mobile Devices with Applicability in the Field of Road and Pedestrian Safety. Sensors 2022, 22, 1023. - <b>Q1 Quartile - IF(2021) – 3.752</b>	1	<b>41</b>
		<b>Total</b>	<b>105.99</b>



Întocmit,

Data,

ZADORISCU EMIANA  
Nume, prenume și semnătură candidat

20.10.2022

**Standarde minimale pentru ocuparea prin concurs a posturilor vacante**

Nr. crt.	Denumire standard	Categoria standardului	Gradul didactic universitar		
			Asistent / Asistent de cercetare	Asistent cu activitate în cadrul unui program de masterat	Celelalte funcții
1.	Studii doctorale	obligatoriu	doctorand	doctor	doctor
2.	Media examenului de finalizare a studiilor <sup>1</sup>	obligatoriu	8,50		8,50
3.	Punctaj pentru performanțe didactice și cercetare științifică. Anexa 3. R51 – F02.	obligatoriu	100 puncte		200 puncte

<sup>1</sup> Media examenului de finalizare a studiilor reprezintă:

- Media examenului de finalizare a studiilor de licență
- (Media examenului de finalizare a studiilor de licență + Media examenului de finalizare a studiilor de masterat).