

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
FACULTATEA DE ELECTRONICĂ, TELECOMUNICAȚII ȘI TECHNOLOGIA INFORMAȚIEI
DEPARTAMENTUL DE RAȚELE ELECTRONICĂ, poz. 7
Examen de promovare pentru ocuparea postului de CONF. UNIV.
Disciplinele postului:

COMPONENTE ȘI CIRCUITE PASIVE
MĂSURĂRI ȘI STRUCTURI PARALELE DE CALCUL

FIȘA DE VERIFICARE
a îndeplinirii standardelor minimele naționale de prezentare la examenul de promovare pe postul de conferențiar universitar

Candidat: UNGUREANU PAUL / Data nașterii: 05.03.1976 Funcția actuală: SEF LUCRĂRI
Data numirii în funcția actuală: 1.10.2014 Instituția: UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI

Se preia tabelul și definițiile corespunzătoare domeniului științific aferent, conform Anexei P.O.D.I.E.15_A1.3.

(Modul de îndeplinire a standardelor minimele naționale va fi prezentat în mod explicit și va trebui însoțit de dovezi)

Data: 08.06.2016
Candidat... UNGUREANU PAUL
(Nume prenume și semnătură)



Anexa 1. Condiții minimale

Nr. crt.	Domeniul de activitate	Conferențiar	Cadru didactic	Criteriu neîndeplinit
A1	Activitatea didactică / profesională (A1)	50	103.33	
A2	Activitatea de cercetare (A2)	300	412.79	
A3	Recunoașterea impactului activității (A3)	50	225.67	
Total (A)		400	741.79	
Scor J			1.85	

Condiții minimale obligatorii pe subcategorii		Conferențiar	Cadru didactic	Criteriu neîndeplinit
A1.1.1 – A1.1.2	Cărți de specialitate / capitol	1	3	
A2.1	Articole în reviste cotate ISI și în volumele unor manifestări științifice indexate ISI	6	17	
A2.4.1	Articole în reviste cotate ISI Q1 sau Q2 [10]	1	1	
A2.4.1	Granturi/proiecte de cercetare câștigate prin competiție (Director/ responsabil partener)	1	2	
A3.1.1	Număr de citări în cărți, reviste cotate ISI și volume ale unor manifestări științifice ISI (WOS) [11]	10	45.00	
	Factor de impact ISI cumulat pentru publicații [12]	4	12.1	

Data: 08.06.2026

Semnătură,

s.l. dr. ing. Paul Ungureanu

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
FACULTATEA DE ELECTRONICĂ, TELECOMUNICAȚII ȘI TEHNOLOGIA INFORMATICII
DEPARTAMENTUL DE BAZELE ELECTRONICII

Examen de promovare pentru ocuparea postului de conferențiar universitar, poz. 7
 Disciplinele postului:

Componente și Circuite Pasive
 Algoritmi și Structuri Paralele de Calcul

FIȘA DE VERIFICARE
 a îndeplinirii standardelor minimale naționale de prezentare la examenul de promovare pe postul de
 conferențiar universitar

Cadru didactic: Paul Ungureanu / Data nașterii: 05.03.1976 / Funcția actuală: șef de lucrări

Data numirii în funcția actuală: 01.10.2014; UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI

Nr. crt.	Domeniul activităților	Subcategori		Realizări conform listei de lucrări	Punctaj	
1	Activitatea didactică și profesională (A1)	A1.1. Cărți de autor sau capitole [1] de specialitate la edituri cu ISBN	A1.1. Cărți/ monografii	A1.1.1 (internationale)	Ci1 - Ci2	53.33
				A1.1.2 (naționale)	Cn1	50.00
		A1.2. Material didactic / Lucrări didactice publicate în edituri cu ISBN	Manuale didactice	A1.2		0.00
2	Activitatea de cercetare (A2)	A2.1. Articole în reviste cotate ISI și lucrări în volumele unor manifestări științifice indexate ISI		A2.1	ISI1 - ISI17	306.13
				A2.2	BDI1 - BDI2	11.67
		A2.2 Articole în reviste și în volumele unor manifestări științifice indexate în alte baze de date internaționale recunoscute (BDI) [4]				
		A2.3 Proprietate intelectuală, brevete de invenție, certificate ORDA		A2.3.1 (internationale - [5])		0.00
				A2.3.2 (naționale - OSIM)		0.00
A2.4. Granturi/ proiecte de cercetare câștigate prin competiție [6] sau Contracte cu agenți economici în valoare de minimum 1000C dolari USA echivalent încasați [6]	A2.4.1. Director/ responsabil partener	A2.4.1.1 (internationale)	Pdn1-Pdn2	0.00		
	A2.4.2. Membru în echipă	A2.4.2.1 (internationale)		55.00		
		A2.4.2.2 (naționale)		0.00		
				A2.4.2.2 (naționale)	Pmn1 - Pmn8	40.00

Nr. crt.	Domeniul activităților	Subcategorii	Realizări conform listei de lucrări	Punctaj
3	Recunoașterea și impactul activității (A3)	A3.1. Citiări [7] în cărți, reviste și volume ale unor manifestări științifice	A3.1.1 Cărți, ISI [8] (conform tabel citări)	210.67
			A3.1.2 BCI [4] (conform tabel citări)	0.00
		A3.2. Membru în colectivele de redacție sau comitetele științifice al revistelor indexate ISI, chair, co-chair sau membru în comitetele de organizare ale manifestărilor științifice internationale indexate ISI [9]	A3.2 (ISI)	0.00
		A3.3. Membru în colectivele de redacție sau comitetele științifice al revistelor indexate BDI, chair, co-chair sau membru în comitetele de organizare ale manifestărilor științifice internationale indexate BDI [4]	Punctaj unic pentru fiecare activitate A3.3 (BDI)	0.00
		A3.4. Premii în domeniu conferite de Academia Română, ASTR, AOSR, sau premii internaționale de prestigiu	Punctaj unic pentru fiecare premiu A3.4. Premiul Tudor Tanasescu, Academia Română	15.00

Data: 08.06.2026

Semnătura,

Total: 741.79

s.l. dr. ing. Paul Ungureanu

Anexa 3. Tabel citări

Nr. crt.	Cod articol citat	Numar autori articol citat	Citări	Tip Carte, ISI sau BDI)	Punctaj
1	ISI	3	1 Barbu, T., "Automatic Unsupervised Texture Recognition Framework Using Anisotropic Diffusion-Based Multi-Scale Analysis and Weight-Connected Graph Clustering", SYMMETRY-BASEL, 2021, (C2)	ISI	5.33
			2 Barbu, T., Luca, M and Ciobanu, A, "Anisotropic Diffusion-based Multiscale Medical Image Analysis Technique for COVID-19 Detection", 9th IEEE International Conference on e-Health and Bioengineering (EHB), 2021	ISI	2.67
			1 R Muolo, L Giambagli, H Nakao, Turing patterns or discrete topologies: from networks to higher-order structures, Proceedings of the Royal Society A Mathematical, physical and engineering sciences, 2024 (Q2)	ISI	5.33
			2 Tao Wu; Jinde Cao; Lianglin Xiong; Ju H. Park; Xuegang Tan, Adaptive Event-Triggered Mechanism to Synchronization of Reaction-Diffusion on CVNNs and Its Application in Image Secure Communication, IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023 (Q1)	ISI	5.33
			3 Jun Zhang; Song Zhu; Kai-Ning Wu; Mouqun Sher; Shijing Wer, Finite-Time Stabilization of Semi-Markov Reaction-Diffusion Memristive VNS With Unbounded Time-Varying Delays, IEEE Transactions on Circuits and Systems I: Regular Papers, 2025 (Q2)	ISI	5.33
			4 Robert A. Van Gorder, A theory of pattern formation for reaction-diffusion systems or temporal networks, Proceedings of the Royal Society A Mathematical, physical and engineering sciences, 2021 (Q2)	ISI	5.33
			5 Yangyang Cui; Yongjian Yang; Yukai Zhu; Jianzong Qiao; Lei Guo, Composite Velocity-Tracking Control for Flexible Gimbal System With Multi-Frequency-Band Disturbances, IEEE Transactions on Circuits and Systems I: Regular Papers, 2021 (Q1)	ISI	5.33
			6 Huimeng Guo, Yan Liang, Guangyi Wang, Yujie Li, Liang Wang, and Yuanfu Zhao, Activation Mechanism of Directly Coupled N-Type Memristive Neuron Circuits, International Journal of Bifurcation and Chaos, 2025 (Q2)	ISI	5.33

Nr. crt.	Cod articol citat	Numar autori articol citat	Citări	Tip (Carte, ISI sau BDI)	Punctaj
			7 Jaemin Shin, Junyoung Park, Minhwan Ji & Seungyu Lee , Exploring potential of Turing pattern classification through convolution maps, Scientific Reports volume 16, 2025 (Q1)	ISI	5.33
			8 Xinhui Wang; Zunxian Li, Turing Instability and Hopf Bifurcation in 2-D Coupled Cellular Neural Networks, IEEE Transactions on Neural Networks and Learning Systems, 2025 C.1)	ISI	5.33
			9 Li, RG and Wu, HN, Iterative Approach With Optimization-Based Execution Scheme for Parameter Identification of Distributed Parameter Systems and its Application in Secure Communication, IEEE Transactions on Circuits and Systems I: Regular Papers, 2020 (Q1)	ISI	5.33
			10 Zunxian Li and Chengyi Xia, Turing Instability and Hopf Bifurcation in Cellular Neural Networks, International Journal of Bifurcation and Chaos, 2021 (Q2)	ISI	5.33
			11 Xing Qiao; Tao Dong, Dynamic of a two-end coupled Cellular Neural Networks (CNN's), IEEE 5th Information Technology and Mechatronics Engineering Conference (ITDEC), 2020	ISI	2.67
			12 Goras, I; Savinescu, VS and Ioan, N, On Pattern Formation in Homogeneous and Nonhomogeneous Cellular Neural Networks, 2018 14TH SYMPOSIUM ON NEURAL NETWORKS AND APPLICATIONS (NEUREL), 2018	ISI	2.67
			1 Anumandla, KK; Peesapati, R and Sabat, SL, Field programmable gate array implementation of spectrum allocation technique for cognitive radio networks, Computers and Electrical Engineering, 2015 (Q1)	ISI	8.00
			2 Chipper, DF and Cracan, A, "An Efficient Algorithm and Architecture for the VLSI Implementation of Integer DCT That Allows an Efficient Incorporation of the Hardware Security with a Low Overhead", APPLIED SCIENCES-BASEL, 2023, (Q2)	ISI	8.00
			3 Chipper, DF, "An Improved VLSI Algorithm for an Efficient VLSI Implementation of a Type IV DCT That Allows an Efficient Incorporation of Hardware Security with a Low Overhead", ELECTRONICS, 2023 (Q2)	ISI	8.00
			4 Chipper, DF; Cracan, A and Andries, VD, "An Overview of Systolic Arrays for Forward and Inverse Discrete Sine Transforms and Their Exploitation in View of an Improved Approach", ELECTRONICS, (Q2), 2022	ISI	8.00
			5 Chipper, DF and Cotorobai, LT, "A New Approach for a Unified Architecture for Type IV DCT/DST with an Efficient Incorporation of Obfuscation Technique", ELECTRONICS, 2021 (Q2)	ISI	8.00
			6 Chipper, DF, "A Structured Fast Algorithm for the VLSI Pipeline Implementation of Inverse Discrete Cosine Transform", CIRCUITS SYSTEMS AND SIGNAL PROCESSING, 2021	ISI	4.00
3	ISI3	2			

Nr. crt.	Cod articol citat	Numar autori articol citat	Citări	Tip (Carte, ISI sau BDI)	Punctaj
4	ISI5	2	7 I. Mamatha, J. Nikhita Raj, Shikha Tripathi, S.B. Sudarshan, Reduced Complexity Architecture for Convolution Based Discrete Cosine Transform, 2013 International Symposium on Electronic System Design, 2013 (https://www.webofscience.com/wos/woscc/full-record/WOS:000355274000014)	ISI	4.00
			8 Chiper; Cotorobai, LT. An Efficient Algorithm for the VLSI Implementation of Inverse DCT Based on Quasi-Circular Correlation Structures, 2021 15TH INTERNATIONAL CONFERENCE ON ADVANCED TECHNOLOGIES, SYSTEMS AND SERVICES IN TELECOMMUNICATIONS, TELSIKS, 2021.	ISI	4.00
4	ISI5	2	1 Toshiyuki Dozashii, Masahiro Wabashi, Hitoshi Kiya, An inverse tone mapping operation with two integer data for HDR images, 2017 International Symposium on Intelligent Signal Processing and Communication Systems (ISPAICS), 2017 (https://www.webofscience.com/wos/woscc/full-record/WOS:000428142000021 ; https://ieeexplore.ieee.org/document/8235555)	ISI	4.00
5	ISI6	3	1 Liviu Goras, Viorel Stefan Savinescu, Nicolae On Pattern Formation in Heterogeneous and Nonhomogeneous Cellular Neural Networks, 2018 14th Symposium on Neural Networks and Applications (NEUREL), 2018 (https://www.webofscience.com/wos/woscc/full-record/WOS:000457745100027)	ISI	2.67
6	ISI7	3	1 Nicolae Patade, Liviu Goras, On the dynamics of a 1D Cellular Neural Network, 2015 International Semiconductor Conference (CAS), 2015 (https://www.webofscience.com/wos/woscc/full-record/WOS:000380566400036)	ISI	2.67
7	ISI8	2	1 Radu Matei, Design and applications of adjustable 2D digital filters with elliptical and circular symmetry, Analog Integrated Circuits and Signal Processing, Volume 114, pages 345-358 (2023) (https://www.webofscience.com/wos/woscc/full-record/WOS:00094579500001)	ISI	4.00
			2 FREQUENCY RESPONSE, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, Volume 23 Issue 1 Page 57-67, 2022 (https://www.webofscience.com/wos/woscc/full-record/WOS:00077628300008)	ISI	4.00
8	ISI9	2	1 Danut Ovidiu Pop, Alexandru Rogozan, Fawzi Nashashibi, Abdelaziz Benstefr, Pedestrian Recognition Using Cross-Modality Learning in Evolutionary Neural Networks, IEEE Intelligent Transportation Systems Magazine, 2021 (Q1) (https://www.webofscience.com/wos/woscc/full-record/WOS:000613447600018)	ISI	8.00
9	ISI10	3	1 Ban, J.C. Neural network equations and symbolic dynamics, INTERNATIONAL JOURNAL OF MACHINE LEARNING AND CYBERNETICS, Volume 6, pages 567-579 (2015) (https://www.webofscience.com/wos/woscc/full-record/WOS:000358074500005)	ISI	2.67
10	ISI12	3	1 Liviu Goras, Ioanda Alecsandrescu, Ion Vornicu, "Spatial Filtering Using Linear Anisotropic Parallel Architectures", ISSCS 2009. INTERNATIONAL SYMPOSIUM ON SIGNALS, CIRCUITS AND SYSTEMS, VOLS 1 AND 2, PROCEEDINGS, pp. 439-442 (http://www.webofscience.com/wos/woscc/full-record/WOS:000425211500081 ; https://ieeexplore.ieee.org/document/5201314/references#references)	ISI	2.67

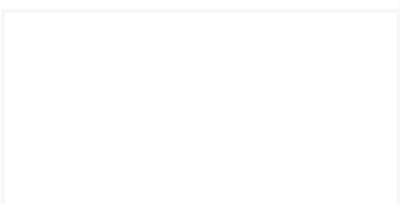
Nr. crt.	Cod articol citat	Numar autori articol citat	Citări	Tip (Carte ISI sau BC)	Punctaj
11	IS13	3	1 <u>Liviu Goras; Iolanda Alecsandrescu; Ion Vornicu, "Spatial Filtering Using Linear Analog Parallel Architectures", ISSCS 2009: INTERNATIONAL SYMPOSIUM ON SIGNALS, CIRCUITS AND SYSTEMS, VOLS 1 AND 2, PROCEEDINGS,, pp.409-412 (www.webofscience.com/wos/woscc/full-record/WOS:000425211500081; https://ieeexplore.ieee.org/document/5206131/references#references)</u>	ISI	2.67
			2 <u>Chung-Yu Wu, Sheng-Hao Chen, Yu Wu, Design and Analysis of a CMOS Ratio-Memory Cellular Nonlinear Network (RMCNN) Requiring No Elapsed Time, IEEE Transactions on Circuits and Systems I: Regular Papers, 2010 (Q1) (https://ieeexplore.ieee.org/document/5378473/references#references; https://www.webofscience.com/wos/woscc/full-record/WOS:000281783800022)</u>	ISI	5.33
			3 <u>Daniel Fernando Santos-Bustos a b, Binh Minh Nguyen b, Helbert Eduardo Espitia, Towards automated eye cancer classification via VGG and ResNet networks using transfer learning, Engineering Science and Technology, an International Journal, 2022 (Q1) (https://www.webofscience.com/wos/woscc/full-record/WOS:000892452200014; https://www.sciencedirect.com/science/article/pii/S2215098622001239#s0095)</u>	ISI	5.33
			4 <u>Mingxuan Li, Guoxiong Zhou & Zongchen Li, Fast recognition system for Tree images based on dual-task Gabor convolutional neural network, Multimedia Tools and Applications, 2022 (Q2) (https://www.webofscience.com/wos/woscc/full-record/WOS:000773759000005)</u>	ISI	5.33
			5 <u>Nurullah Galik, Evren Cesur, Vedat Tavşanoğlu, Handwritten character recognition application by using Cellular Neural Network, 21st Signal Processing and Communications Conference (SIU), 2013 (https://www.webofscience.com/wos/woscc/full-record/WOS:000325005300330)</u>	ISI	2.67
12	IS14	3	1 <u>Yi-Chen Chen; Challa S. Sastry; Vishal N. Patel; P.Jonathon Phillips; Rama Chellappa, Ir-Plane Rotation and Scale Invariant Clustering Using Dictionaries, IEEE Transactions on Image Processing, 2013 (Q1)</u>	ISI	5.33
			2 <u>Liviu Goras; Iolanda Alecsandrescu; Ion Vornicu, "Spatial Filtering Using Linear Analog Parallel Architectures", ISSCS 2009: INTERNATIONAL SYMPOSIUM ON SIGNALS, CIRCUITS AND SYSTEMS, VOLS 1 AND 2, PROCEEDINGS, pp.409-412 (https://www.webofscience.com/wos/woscc/full-record/WOS:000275854200101; https://ieeexplore.ieee.org/document/5206131/references#references)</u>	ISI	2.67
			3 <u>Xing Qiao; Tao Dong, Dynamic of a two-grid coupled Cellular Neural Networks (CNN's) 2020 IEEE 5th Information Technology and Mechatronics Engineering Conference (ITOECC)</u>	ISI	2.67
			1 <u>Zhang, Q.; Tang, H.; Li, Y.; Han, B.; Li, J. Improved Ivethod Based on Retinex and Gabcr for the Surface Defect Enhancement of Aluminum Strips. <i>Metals</i> 2023, (Q2)</u>	SI	5.33

Nr. crt.	Cod articol citat	Numar autori articol citat		Citări	Tip (Carte, ISI sau BDI)	Punctaj
14	<u>ISI15</u>	3	2	Kinghui Dong; Junyu Dong; Liang Qu, Enteromorpha detection in aerial images using support vector machines, 2009 IEEE Youth Conference on Information, Computing and Telecommunication, 2009	ISI	2.67
			3	Liang Qu; Xinghui Dong, Enteromorpha Prolifera Detection in Aerial Images Based on Image Retrieval, 2010 Third International Conference on Knowledge Discovery and Data Mining, 2010	ISI	2.67
15	<u>BD12</u>	3	1	Goras, On Unstable Spatial Modes and Patterns in Cellular and Graph Neural Circuits, Electronics 2022, 11(19), 3033; (Q2) (https://www.webofscience.com/wos/woscc/full-record/WOS:000866860500001)	ISI	5.33
16	<u>BD13</u>	2	1	Taisuke Nishio; Yoshifumi Nishio, Periodic Pattern Formation and Its Applications in Cellular Neural Networks, IEEE Transactions on Circuits and Systems I: Regular Papers, 2008 (Q1) https://www.webofscience.com/wos/woscc/full-record/WOS:000260863700027 , https://ieeexplore.ieee.org/document/4490296/references#references)	ISI	3.00
17	<u>C11</u>	3	1	Alviu Goras; Viorel Stefan Savinescu; Nica Ioan On Pattern Formation in Homogeneous and Nonhomogeneous Cellular Neural Networks, 2018 14th Symposium on Neural Networks and Applications (NEUREL), 2018 (https://www.webofscience.com/wos/woscc/full-record/WOS:000457745100027)	ISI	2.67
			2	Luan Manuel Núñez, Segmentation of Urban Impervious Surface Using Cellular Neural Networks, Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications, 2015 https://www.webofscience.com/wos/woscc/full-record/WOS:000374793800061)	ISI	2.67

Data: 08.06.2026

s.l. dr. ing. Paul Ungureanu

Semnătura. 





acordă

Premiul Tudor Tănăsescu

pentru

Grupul de lucrări (5): *On Turing Instability in
Nonhomogeneous Reaction-Diffusion CNN's.*

Autor: *Paul Ungureanu* (în colectiv)



București, 12 decembrie 2019

