

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

Concurs pentru ocuparea postului de conferențiar, poz. 5

Disciplinele postului: Circuite electronice analogice
 Modelarea componentelor electronice
 Semnale, circuite și sisteme
 Semnale și sisteme

FIȘA DE VERIFICARE
a îndeplinirii standardelor minime naționale de prezentare la concurs pentru postul de
conferențiar universitar

publicat în Monitorul Oficial al României nr. 395 din data de 28.11.2024

Candidat: MATEI RADU-CEZAR / Data nașterii: 13 ianuarie 1970....Funcția actuală: șef de lucrări., Data numirii în funcția actuală: 15 februarie 2002.....

Instituția: UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" din IAȘI

Se preia tabelul și definițiile corespunzătoare domeniului științific aferent, conform Anexei PO.DID.12_A1.3.

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

Data: 20.12.2024

Candidat: MATEI RADU-CEZAR

Semnătura

A large black oval redaction mark covering the signature of the candidate.

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
 FACULTATEA DE ELECTRONICĂ, TELECOMUNICAȚII ȘI TEHNOLOGIA INFORMAȚIEI
 DEPARTAMENTUL DE BAZELE ELECTRONICII
 Ramura de știință: Inginerie electrică, electronică și telecomunicații
 Domeniul de studii: Inginerie electronică și telecomunicații

FIȘA DE VERIFICARE

pentru postul de conferențiar

Cadru didactic: **MATEI Radu-Cezar** / Data nașterii: 13.01.1970 / Funcția ocupată: Șef lucrări

Data numirii în funcția actuală: 15.02.2002 (Decizia TUIASI nr. 313 / 2002)

Condiții minimale			
Condiția	Minim	Realizat	Condiția este îndeplinită (Da / Nu)
A1	50	100	DA
A2	300	1983	DA
A3	50	286	DA
TOTAL (A)	400	2369	

Condiții minime obligatorii pe subcategorii (număr)	Minim	Realizat	Condiția este îndeplinită (Da / Nu)
A1.1.1 – A1.1.2	1	1 carte 3 capitole de carte	DA
A2.1	6 articole din care minim 1 cotate ISI Q1 sau Q2	47 articole ISI (în WOS Clarivate), din care: 10 articole în reviste cotate ISI (o revistă Q1, 6 reviste Q2)	DA
A2.4.1	1	1	DA
A3.1.1 – A3.1.2	10	72	DA
Factor de impact cumulat	4	31.24	DA

A1. ACTIVITATEA DIDACTICĂ ȘI PROFESIONALĂ

A1.1. Cărți și capitole în cărți de specialitate în edituri recunoscute

Nr.crt.	Titlul lucrării	Punctaj
A1.1.1 Capitole de specialitate în edituri internaționale		
1.	R.Matei – “New Model and Applications of Cellular Neural Networks in Image Processing”, chapter in the book “Advanced Technologies”, edited by Kankesu Jayanthakumaran, pp. 471-501, IN-TECH Open Access Publisher, Vienna, Austria, 2009, ISBN: 978-953-307-009-4 (4 ediții în 42 de biblioteci, conform WorldCat); https://search.worldcat.org/title/1286432446 punctaj: $50/4 = 12.5$	12.5
2.	R.Matei – “New Design Methods for Two-Dimensional Filters Based on 1D Prototypes and Spectral Transformations”, chapter in the book "Digital Filters", edited by Fausto Pedro García Márquez, pp. 91-121, IN-TECH Open Access Publisher, Vienna, Austria, April 2011, ISBN: 978-953-307-190-9 (3 ediții în 186 de biblioteci, conform WorldCat) https://search.worldcat.org?title/1433650346 punctaj: $100/4 = 25$	25
3.	R.Matei, D.Matei – “Analytical Design of Two-Dimensional Filters and Applications in Biomedical Image Processing”, chapter in the book "Digital Filters and Signal Processing", edited by Fausto Pedro García Márquez and Noor Zaman, IN-TECH Open Access Publisher, Vienna, Austria, January 2013, pp. 275-307, ISBN: 978-953-51-0871-9 (3 ediții în 52 biblioteci, conform WorldCat) https://search.worldcat.org/title/848259761 punctaj: $100/4/2 = 12.5$	12.5
A1.1.2 cărți de autor la edituri naționale		
1.	Radu Matei – „Circuite integrate analogice”, Editura Tehnopress, Iași, ISBN 978-606-687-529-5 (203 pagini)	50
TOTAL A1.1		100

A2. ACTIVITATEA DE CERCETARE

A2.1 Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI Proceedings [(25+30 * factor impact) /nr. de autori]
[pentru volumele manifestărilor ISI se consideră factorul de impact echivalent 0.25]

Nr. crt.	Titlul articolului	Factor de impact	Nr. autori	Punctaj
ARTICOLE IN REVISTE COTATE ISI				
1	R. Matei – <i>A Class of Directional Zero-Phase 2D Filters Designed Using Analytical Approach</i> , IEEE Transactions on Circuits and Systems I: Regular Papers, vol. 69, no. 4, pp. 1629-1640, April 2022, ISSN 1549-8328, doi: 10.1109/TCSI.2021.3139141 (revistă Q1)	4.14 (2022)	1	149.2
2	R. Matei – <i>Design and Applications of Adjustable 2D Digital Filters with Elliptical and Circular Symmetry</i> , Analog Integrated Circuits and Signal Processing, Volume 114, pp. 345–358, March 2023, https://doi.org/10.1007/s10470-023-02152-0 (revistă Q4)	1.2 (2023)	1	61

3	R. Matei – <i>Analytical Design Methods for Directional Gaussian 2D FIR Filters</i> , Multidimensional Systems and Signal Processing (Springer), vol. 29, pp. 185–211, 2018, ISSN 0923-6082, doi 10.1007/s11045-016-0458-4 (revistă Q2)	1.7 (2023)	1	76
4	R. Matei – <i>Analytic Design of Directional and Square-Shaped 2D IIR Filters Based on Digital Prototypes</i> , Multidimensional Systems and Signal Processing (Springer), October 2019, Volume 30, Issue 4, pp. 2021-2043, ISSN 0923-6082, https://doi.org/10.1007/s11045-019-00631-0 (revistă Q2)	1.7 (2023)	1	76
5	R. Matei – <i>Analytical Design and Applications of 2D Anisotropic Filters with Elliptical Frequency Response</i> , Proc. of the Romanian Academy, Series A (Mathematics, Physics, Technical Sciences, Information Science), 23 (1), 2022, pp. 57-68, ISSN 1454-9069 (Q4)	0.3 (2022)	1	34
6	R. Matei , D.F. Chipser – <i>Analytic Design Technique for 2D FIR Circular Filter Banks and Their Efficient Implementation Using Polyphase Approach</i> , Sensors 2023, Volume 23, Issue 24, 9851; ISSN: 1424-8220, https://doi.org/10.3390/s23249851 (revistă Q2)	3.4 (2024)	2	63.5
7	R. Matei , D.F. Chipser – <i>Analytic Design and Polyphase Implementation Technique for 2D Digital FIR Differentiators</i> , Sensors 2024, 24(23), 7870, https://doi.org/10.3390/s24237870 (revistă Q2)	3.4 (2024)	2	63.5
8	R. Matei , D.F. Chipser – <i>Analytical Design of Gaussian Anisotropic 2D FIR Filters and Their Implementation Using the Block Filtering Approach</i> , Electronics 2024, 13 (7): 1243, https://doi.org/10.3390/electronics13071243 (revistă Q2)	2.6 (2024)	2	51.5
9	R. Matei , D.F. Chipser – <i>Design and Polyphase Implementation of Rotationally Invariant 2D FIR Filter Banks Based on Maximally Flat Prototype</i> , Electronics 2024, 13(14), 2829 https://doi.org/10.3390/electronics13142829 (revistă Q2)	2.6 (2024)	2	51.5
10	D. Matei, C. Corciova, B. Ignat, R. Matei – <i>Transcranial magnetic stimulation in stroke rehabilitation</i> , Balneo Research Journal, Vol.9, No.3, September 2018, pp. 264-269, eISSN: 2069-7619, pISSN: 2069-7597, doi: http://dx.doi.org/10.12680/balneo.2018.193 (revistă Q4)	0.7 (2023)	4	11.5
		21.74	TOTAL	637.7
ARTICOLE IN VOLUMELE CONFERINTELOR INDEXATE ISI				
1	R. Matei and D. Matei – <i>Frequency Analysis of EEG Signals Using Band Energy Distribution</i> , Proceedings of 9-th IEEE Intl Conference on e-Health and Bioengineering (EHB 2021), 18-19 November 2021, Iași, Romania, pp. 1-4, doi: 10.1109/EHB52898.2021.9657648	0.25	2	16.25
2	R. Matei – <i>Efficient Design Procedure for Circular Filter Banks</i> , Proceedings of IEEE 63rd Intl Midwest Symposium on Circuits and Systems MWSCAS 2021, 9-11 August 2021, East Lansing, Michigan, USA, pp. 259-262, doi: 10.1109/MWSCAS47672.2021.9531686	0.25	1	32.5
3	R. Matei – <i>Synthesis and Applications of Oriented Gaussian FIR Filters</i> , Proceedings of 19th IEEE International Conference on Smart Technologies EUROCON 2021, pp. 60-65, 6-8 July 2021, Lviv, Ukraine, doi: 10.1109/EUROCON52738.2021.9535614	0.25	1	32.5
4	R. Matei – <i>Analytic Design of Uniform Circular Filter Banks</i> , Proc. of the 24-th IEEE Conf. Signal Processing: Algorithms, Architectures, Arrangements, and Applications (SPA), 23-25 September 2020, Poznań, Poland, pp. 58-62, doi: 10.23919/SPA50552.2020.9241281	0.25	1	32.5
5	R. Matei , D. Matei – <i>Analysis of Some EMG Signals Using Multiresolution and Time-Frequency Techniques</i> , Proc. of 8-th IEEE Intl Conference on E-Health and Bioengineering, EHB 2020, 29-30	0.25	2	16.25

	October 2020, Iași, Romania, doi: 10.1109/EHB50910.2020.9280201			
6	R. Matei – Wedge Filters Designed From 1D Digital Prototypes, Proceedings of the 24th European Conference on Circuit Theory and Design (ECCTD), September 7-10, 2020, Sofia, Bulgaria, doi: 10.1109/ECCTD49232.2020.9218422	0.25	1	32.5
7	R. Matei – Closed-Form Design of 2D Filters with Elliptical and Circular Frequency Response, Proceedings of the 24th European Conference on Circuit Theory and Design (ECCTD), September 7-10, 2020, Sofia, Bulgaria, doi: 10.1109/ECCTD49232.2020.9218349	0.25	1	32.5
8	R. Matei – Design Procedure for 2D Gaussian Anisotropic Filters, Proc. of IEEE 63rd Intl Midwest Symposium on Circuits and Systems MWSCAS 2020, 9-12 August 2020, Springfield, Massachusetts, USA, pp. 174-177, doi: 10.1109/MWSCAS48704.2020.9184594	0.25	1	32.5
9	R. Matei, D. Matei – Multiresolution Spectral Analysis of Epileptic EEG Signals Using Various Wavelet Types, Proc. of 7-th IEEE Intl Conf on E-Health and Bioengineering, EHB 2019, 21-23 November 2019, Iași, Romania, doi: 10.1109/EHB47216.2019.8969883	0.25	2	16.25
10	R. Matei – Directional Filter Banks Designed From Zero-Phase Low-Pass Filters, Proceedings of IEEE International Symposium on Signals, Circuits and Systems, ISSCS 2019, 11-12 July 2019, Iași, Romania, doi: 10.1109/ISSCS.2019.8801750	0.25	1	32.5
11	R. Matei, D. Matei – Circular IIR Filter Design and Applications in Biomedical Image Analysis, Proc. of 10th IEEE International Conference on Electronics, Computers and Artificial Intelligence ECAI 2018, 28-30 June 2018, Iași, Romania, ISSN 1843-2115	0.25	2	16.25
12	R. Matei – Analytical Design of Elliptically-Shaped 2D Recursive Filters, Proceedings of IEEE 61st International Midwest Symposium on Circuits and Systems MWSCAS 2018, 5-8 Aug. 2018, Windsor, Ontario, Canada, pp. 964-967, doi: 10.1109/MWSCAS.2018.8624079	0.25	1	32.5
13	R. Matei – Design Approach for a Class of 2D Recursive Filters, Proc. of IEEE Intl Symp on Signals, Circuits and Systems, ISSCS 2017, 13-14 July 2017, Iași, Romania, doi: 10.1109/ISSCS.2017.8034930	0.25	1	32.5
14	R. Matei – Gaussian 2D IIR Filters With Multiple Orientation, Proceedings of the 20-th IEEE conference Signal Processing: Algorithms, Architectures, Arrangements, and Applications (SPA), 21-23 Sept. 2016, Poznań, Poland, doi: 10.1109/SPA.2016.7763625	0.25	1	32.5
15	R. Matei – 2D IIR Filters With Square-Shaped Frequency Response, Proc of IEEE Intl Symp on Signals, Circuits and Systems, ISSCS 2015, 9-10 July 2015, Iasi, Romania, doi: 10.1109/ISSCS.2015.7204020	0.25	1	32.5
16	R. Matei – Design of 2D Recursive Filters with Double-Directional Selectivity, Proc. of 38th IEEE Intl Conf on Telecommunications and Signal Processing, TSP 2015, 9-11 July 2015, Prague, Czech Republic, pp. 1-5, doi 10.1109/TSP.2015.7296392	0.25	1	32.5
17	R. Matei – Parametric 2D Gaussian Circular Band-Pass Filters, Proc of IEEE Intl Symposium on Signals, Circuits and Systems, ISSCS 2013, 11-12 July 2013, Iasi, Romania, doi: 10.1109/ISSCS.2013.6651251	0.25	1	32.5
18	R. Matei – Efficient Design of Adjustable Circular IIR 2D Filters, Proceedings IEEE 56th Midwest Symposium on Circuits and Systems MWSCAS 2013, Columbus, Ohio, USA, 4-7 Aug. 2013, pp. 1302-1305, doi: 10.1109/MWSCAS.2013.6674894	0.25	1	32.5
19	R. Matei – Multi-Directional Filters Designed From 1D Prototypes, Proc. IEEE 55th Midwest Symposium on Circuits and Systems MWSCAS 2012, Boise, Idaho, USA, August 5-8, 2012, pp. 864-867, doi: 10.1109/MWSCAS.2012.6292157	0.25	1	32.5

20	R.Matei – Recursive Fan-Type Filter Design From 1D Analog Transfer Functions, Proceedings of the 20th European Signal Processing Conference EUSIPCO 2012, Bucharest, Romania, 27-31 August 2012, pp. 1064-1068, ISSN: 2076-1465, ISBN: 978-1-4673-1068-0	0.25	1	32.5
21	R.Matei, D.Matei – Design and Applications of 2D Directional Filters Based on Frequency Transformations, Proceedings of the 18th European Signal Processing Conference EUSIPCO 2010, Aalborg, Denmark, August 23-27, 2010, pp. 1695-1699, ISSN: 2076-1465	0.25	2	16.25
22	R.Matei – A New Design Method for IIR Diamond-Shaped Filters, Proc of the 18th European Signal Processing Conf EUSIPCO 2010, Aalborg, Denmark, August 23-27, 2010, pp. 65-69, ISSN: 2076-1465	0.25	1	32.5
23	R.Matei – Design Techniques for Two-Directional Recursive Filters, Proceedings of the IEEE 53rd Midwest Symposium on Circuits and Systems, MWSCAS 2010, August 1-4, 2010, Seattle, USA, pp. 371-374, doi: 10.1109/MWSCAS.2010.5548862	0.25	1	32.5
24	R.Matei – Two-Dimensional IIR Filter Design Using Prototype Biquad Transformation, Proc. of the IEEE 53rd Midwest Symposium on Circuits and Systems, MWSCAS 2010, August 1-4, 2010, Seattle, USA, pp. 375-378, doi: 10.1109/MWSCAS.2010.5548859	0.25	1	32.5
25	R.Matei – Resistive Networks for Signal and Image Filtering in the Haar Basis, Proceedings of the 19th European Conference on Circuit Theory and Design ECCTD'09, August 23-27, 2009, Antalya, Turkey, pp.503-506, doi: 10.1109/ECCTD.2009.5275027	0.25	1	32.5
26	R.Matei, P.Ungureanu – Image Processing Using Elliptically-Shaped Filters, Proceedings of IEEE International Symposium on Signals, Circuits and Systems, ISSCS 2009, July 9-10, 2009, Iasi, Romania, Vol.2, pp. 337-340, doi: 10.1109/ISSCS.2009.5206111	0.25	2	16.25
27	R.Matei – Design Method for Wedge-Shaped Filters, Proceedings of the International Conference on Signal Processing and Multimedia Applications SIGMAP 2009, July 7-10, 2009, Milano, Italy, pp. 19-23, ISBN: 978-989-674-007-8	0.25	1	32.5
28	R.Matei – Gaussian-Shaped Circularly-Symmetric 2D Filter Banks, Proceedings of the 7th WSEAS International Conference on Signal Processing, Robotics and Automation ISPRA'08, Cambridge, England, UK, Febr. 20-22, 2008, pp.110-114, ISBN: 978-960-6766-44-2	0.25	1	32.5
29	D.Matei, R.Matei – Detection of Diabetic Symptoms in Retina Images Using Analog Algorithms, Proc. of 7th WSEAS Intl Conf on Signal Processing, Robotics and Automation ISPRA'08, Cambridge, England, UK, Febr. 20-22, 2008, pp.198-203, ISBN: 978-960-6766-44-2	0.25	2	16.25
30	R.Matei – Directional Zero-Phase 2D IIR Filter Design Using Chebyshev-Padé Approximation, 14th IEEE Intl Conf on Electronics, Circuits and Systems, ICECS 2007, 11-14 December 2007, Marrakech, Maroc, pp.959-962, doi: 10.1109/ICECS.2007.4511151	0.25	1	32.5
31	R.Matei – Gaussian Shaped Multiband FIR and IIR 2D Filters, 14th IEEE International Conference on Electronics, Circuits and Systems, ICECS 2007, December 11-14, 2007, Marrakech, Maroc, pp. 254-257, doi: 10.1109/ICECS.2007.4510978	0.25	1	32.5
32	R.Matei – Design Method for Polygonal Spatial Filters, The IEEE Region 8 EUROCON 2007 Conference “Computer as a Tool”, Sept. 9-12, 2007, Warsaw, Poland, Proceedings Vols.1-6, pp. 2310-2314, doi: 10.1109/EURCON.2007.4400611	0.25	1	32.5
33	R.Matei – Design of a Class of Maximally-Flat Spatial Filters, Proceedings of the IEEE International Symposium on Circuits and Systems ISCAS'2006, May 21-24, 2006, Kos Island, Greece, pp.2165-	0.25	1	32.5

	2168, doi: 10.1109/ISCAS.2006.1693047			
34	R.Matei – A Class of Hysteretic Circuits Using Operational Amplifiers, Proceedings of IEEE International Symposium on Signals, Circuits and Systems, ISSCS'2005, 7-9 July 14-15, 2005, Iași, Romania, pp. 425-428, doi: 10.1109/ISSCS.2005.1511268	0.25	1	32.5
35	R.Matei – Design Method for Orientation-Selective CNN Filters, Proceedings of the IEEE International Symposium on Circuits and Systems ISCAS'2004, May 23-26, 2004, Vancouver, Canada, Vol.3, pp.105-108, doi: 10.1109/ISCAS.2004.1328694	0.25	1	32.5
36	R.Matei – Cellular Neural Networks with Second-Order Cells and Their Pattern Forming Properties, Proc of IEEE Intl Symposium on Circuits and Systems, ISCAS'2003, Bangkok, Thailand, 25-28 May 2003, Vol.V, pp.773-776, doi: 10.1109/ISCAS.2003.1206427	0.25	1	32.5
37	R.Matei – Image Processing Using Hysteretic Cellular Neural Networks, Proceedings of the International Symposium on Circuits and Systems, ISCAS'2000, 27-31 May 2000, Geneva, Switzerland, vol.IV, pp.129-132, doi: 10.1109/ISCAS.2000.858705	0.25	1	32.5
38	R.Matei – Haar Filtering with Pyramidal Resistive Networks, Proceedings of the International Symposium on Circuits and Systems, ISCAS'2000, 27-31 May 2000, Geneva, Switzerland, vol.I, pp.575-578, doi: 10.1109/ISCAS.2000.857160	0.25	1	32.5
		9.5	TOTAL	1121.25
TOTAL A2.1				1758.95
FACTOR DE IMPACT CUMULAT				31.24

A2.2 Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI) [sunt cele recunoscute pe plan științific internațional precum (nelimitativ): Scopus, IEEE Xplore, Science Direct, Elsevier, Wiley, ACM, DBLP, Springerlink, Engineering Village, Cabi, Emerald, CSA, Compendex, INSPEC, Google Scholar] [20 / nr. de autori]

Nr.crt.	Titlul lucrării	Nr. autori	Punctaj
	R. Matei – Gaussian Circular 2D FIR Filters Designed Using Analytical Approach, WSEAS Transactions on Signal Processing, Volume 16, Art. #14, 2020, pp. 118-126, doi: 10.37394/232014.2020.16.14 (indexată în Google Scholar)	1	20
	R. Matei, D. Matei – Study of EEG With Epileptic Activity Using Spectral Analysis and Wavelet Transform, WSEAS Transactions on Signal Processing, Volume 13, 2017, pp. 241-247, (indexată în Google Scholar)	2	10
	R.Matei – Design of Adjustable Square-Shaped 2D IIR Filters, ISRN Signal Processing, Hindawi Publishing Corporation, vol. 2013, Article ID 796830, 10 pages, September 2013, (http://dx.doi.org/10.1155/2013/796830) (indexată în Wiley, Google Scholar)	1	20
	D.F. Chiper, R. Matei – Synthesis and Polyphase Implementation of Wide-Band Low-Pass Circular 2D FIR Filters, Annals of the Academy of Romanian Scientists, Series on Science and Technology of Information, 17 (1), 2024, pp. 60-73, ISSN 2066 – 8562 (indexată în Google Scholar)	2	10

	R. Matei – Fan-Shaped IIR Filters Based on Analog Prototypes, International Journal of Systems Applications, Engineering and Development, Volume 11, 2017, pp. 342-347, ISSN: 2074-1308 (indexată în Google Scholar)	1	20
	R. Matei – Design Approach for 2D Recursive Filters Used in Frequency Plane Partitioning, Journal of Scientific Research & Reports (Science Domain International), 12 (4): 1-9, 2016, ISSN 2320-0227 (indexată în Google Scholar)	1	20
	D.Matei, R.Matei – Diabetic Retinopathy Assessment Using Analog Processing of Angiography Images, Bulletin of the Polytechnic Institute of Iasi, 2010, Tome LVI (LX), Fasc.1, Section 3 (indexată în ResearchGate)	2	10
	R. Matei , L. Goraș – Elementary Linear Filtering Tasks Using CNNs With Minimum-Size Templates, Journal of Automatic Control (JAC), Faculty of Electrical Engineering, University of Belgrade, Volume 13(1), 2003, pp.47-53 (indexată în Google Scholar)	2	10
	R. Matei , L. Goraș – A Class of Circularly-Symmetric CNN Spatial Linear Filters, Facta Universitatis (The Scientific Journal of the University of Nis, Serbia), Series: Electronics and Energetics, Vol.19, No.2, August 2006, pp.299-316 (indexată în Google Scholar)	2	10
	R. Matei – On the Influence of Boundary Conditions on Pattern Formation in 1-D Cellular Neural Networks, Bulletin of the Polytechnic Institute of Iasi, 1998, Tome XLIV (XLVIII), Fasc.3-4, Section 3 (Buletinul IPI)	1	20
TOTAL A2.2			150

**A2.4 Granturi / proiecte internaționale câștigate prin competiție
(Director/ responsabil/membru în echipă)**

Nr.crt.	Titlul contractului	Număr ani	Punctaj
A2.4.1.2 Director/responsabil grant național			[10 * ani de desfășurare]
1	Director de grant: Grant Național de cercetare ARUT al TUIASI , contract GnaC2023_250 / 2024 Titlu: “Tehnici inovative de proiectare și implementare eficientă a filtrelor digitale și dezvoltarea unor noi aplicații (FIL-PRO-NOV)” (durata 14 luni) valoare totală 49771 lei (echivalent 10000 EURO) Sursa de finanțare: Fondul pentru Finanțarea Cercetării Științifice Universitare, contract CNFIS-FDI-2024-0598 și Venituri Proprii TUIASI	1	10
A2.4.2.2 Membru în echipă grant național			[2 * ani de desfășurare]
1	Grant PN II IDEI contract nr. 648/2009 Titlu: „Algoritmi și arhitecturi paralele pentru achiziția compresia și prelucrarea semnalelor” Director: Prof.dr.ing. Liviu Goraș	3	6
2	Grant PN II colaborare 12-115/2008 Titlu: “Sistem de investigatii asistare si control al	3	6

	afectiunilor neurologice bazat pe interfete creier-calculator" Director: Prof. dr. ing. Iulian Ciocoiu		
3	Grant 33/2007, tip A, tema 4, cod CNCSIS 194 Titlu: "VIS-A-VIS: Instrumente software bazate pe analiza expresiei feței utilizate pentru interacțiunea om-mașină inteligentă" Director: Prof. dr. ing. Iulian Ciocoiu	2	4
4	Grant 33/2007, tip A, tema 11, cod CNCSIS 226 Titlu: "Cercetari privind utilizarea rețelelor neuronale celulare in aplicatii de prelucrare liniara si neliniara a semnalelor" Director: Prof.dr.ing. Liviu Goraș	2	4
5	GR 33371/2004, tip A, tema 24, cod CNCSIS 513 Titlu: "Prelucrarea imaginilor folosind rețele neuronale celulare cu aplicații în extragerea de trăsături și recunoașterea formelor" Director: Prof.dr.ing. Liviu Goraș	3	6
6	GR 33371/2004, tip A, tema 16, cod CNCSIS 491 Titlu: "SESAME – Aplicatie biometrica pentru detectia si recunoasterea fetelor bazata pe utilizarea rețelelor neurale artificiale" Director: Prof. dr. ing. Iulian Ciocoiu	3	6
7	GR nr. 35259/2001, tema 23, cod CNCSIS 251 GR nr. 33479/2002, tema 13, cod CNCSIS 387 GR nr. 33557/2003, tema 23, cod CNCSIS 319 Titlu: „Proiectarea filtrelor monolitice de înaltă frecvență comandate, cu modul de lucru în curent, folosind metoda spațiului parametrilor" Director: Prof.dr.ing. Liviu Goraș	3	6
8	Grant CNCSIS BM 222, Tip D, contract nr. 40623 / 2000 Titlu: "Metode noi de prelucrare a semnalelor, algoritmi, arhitecturi si implementare" Director: Prof.dr.ing. Liviu Goraș	2	4
9	Grant ANSTI tema B16, tema A18 contract nr. 6177 / 2000 Titlu: "Metode moderne de procesare a semnalelor electroencefalografice cu aplicatii in diagnosticare asistata" Director: Prof.dr.ing. Liviu Goraș	2	4
10	Contract nr. 37089 / 2000 tema 24, COD 943 Titlu: "Rețele neuronale celulare histeretice: O noua paradigma in formarea si procesarea patternurilor" Director: Prof.dr.ing. Liviu Goraș	1	2
11	Grant ANSTI contract nr. 5002.B6 / 1999 Titlu: "Recunoastere de caractere pentru procesarea automata a formularelor" Director: Prof. dr. ing. Iulian Ciocoiu	1	2
12	Grant CNCSIS contract nr. 34280 / 1999 tema 46, cod 262 Titlu: "Comunicatii digitale cu modulatie pe purtatoare haotica" Director: Prof.dr.ing. Victor Grigoraș	1	2

13	Contract nr. 37 / 1998, cod 495, tema 11 Titlu: "Circuite si sisteme hibride. Utilizarea histeronilor in procesarea semnalelor" Director: Prof.dr.ing. Liviu Goraș	1	2
14	Grant CNCISIS BM contract nr. 7 / 1998 Titlu: "Aplicatii ale masinii universale de calcul cu retele neurale celulare in formarea si recunoasterea formelor" (1998-2002)" Director: Prof.dr.ing. Liviu Goraș	5	10
TOTAL A2.4.1.1 + A2.4.1.2 + A2.4.2.2			74

A3.1 Citări în cărți, reviste și volume ale unor manifestări științifice
[cărți/ISI = 8 / nr. autori articol citat; BDI = 4 / nr. autori articol citat]

Nr. crt.	Titlul lucrării citate și lucrările care citează	Nr. citări ISI	Nr. citări BDI	Punctaj
1	<p>R.Matei – <i>Design Method for Orientation-Selective CNN Filters</i>, Proceedings of the IEEE International Symposium on Circuits and Systems ISCAS'2004, May 23-26, 2004, Vancouver, Canada, Vol.3, pp.105-108</p> <p>citată în:</p> <p>1. Vedat Tavsanoğlu, P. Tural, S. Nergis – <i>2nd Order 2-D Spatial Filters and Cellular Neural Network Implementations</i>, Proc. 13th Intl Workshop CNNA 2012, 29-31 Aug. 2012, Torino, Italy, pp. 1-5 doi: 10.1109/CNNA.2012.6331423 (conf BDI)</p> <p>2. H.M.D. Ip, Em. Drakakis, A.A. Bharath – <i>An efficient CNN implementation of a 2D orientation and scale tunable low-pass filter based on the approximation of an oriented 2D Gaussian filter</i>, 48th MWSCAS, Aug. 2005, pp. 895-898 (conf BDI) doi: 10.1109/MWSCAS.2005.1594246</p> <p>3. B.B. Alagoz, M. E. Tagluk - <i>An Adaptive Two-level Filtering Technique for Noise Lines in Video Imag</i>, 2011, pp. 270-282 (revista BDI)</p> <p>4. Jun Yang et al, <i>Multichannel MI-EEG Feature Decoding Based on Deep Learning</i>, Journal Electronics Inform. Tech., 2021, 43(1), 196-203. doi: 10.11999/JEIT190300, (rev BDI)</p> <p>5. S. Nivethalakshmi, J. Justin, <i>Detection of Dental Caries Using NIR Images</i>, 6th Intl Conf Recent Trends Advance Comp, Chennai, 2023, (conf BDI) doi:10.1109/ICRTAC59277.2023.10480849</p>	0	5	20
2	<p>R.Matei – <i>Image Processing Using Hysteretic Cellular Neural Networks</i>, Proc. Intl Symp Circ Syst, ISCAS'2000, Geneva, Switzerland, vol.IV, pp.129-132 citată în:</p> <p>1.Cheng-Chih Hou et al. – <i>Image Noise Cancellation Using Linear Matrix Inequality and Cellular Neural Network</i>, Intl MultiConference IMECS 2008, Hong Kong (http://www.iaeng.org/publication/IMECS2008/IMECS2008_pp707-711.pdf) (conf BDI)</p> <p>2. Te-Jen Su , Yu-Jen Lin , Chia-Ling Hou , <i>Cellular Neural Network for Noise Cancellation of Gray Image Based on Hybrid Linear Matrix Inequality and Particle</i></p>	2	2	24

	<p><i>Swarm Optimization</i>, Intl Conf NISS '09, 2009, pp. 613 – 617, doi: 10.1109/NISS.2009.238 (conf BDI)</p> <p>3. Te-Jen Su et al. – <i>Cellular neural networks for gray image noise cancellation based on a hybrid linear matrix inequality and particle swarm optimization approach</i>, Journal Neural Processing Letters, 32(2), 2010, 147-165 https://doi.org/10.1007/s11063-010-9150-0 (revista ISI)</p> <p>4. Te-Jen Su et al. – <i>Applications of Cellular Neural Networks to Noise Cancellation in Gray Images Based on Adaptive Particle-Swarm Optimization</i>, Circuits, Systems and Signal Processing 2012; 30(6):1131-1148 (revista ISI) https://doi.org/10.1007/s00034-011-9269-x</p>			
3	<p>R.Matei – <i>Cellular Neural Networks with Second-Order Cells and Their Pattern Forming Properties</i>, Proc IEEE Intl Symp on Circuits and Systems, ISCAS'2003, Bangkok, Thailand, 25-28 May 2003, Vol.V, pp.773-776 doi: 10.1109/ISCAS.2003.1206427 citată în:</p> <p>1. Pușcașu, P.M., Goras, L. - <i>Nonideal Behavior of a Class of Cellular Neural Networks</i>, IEEE Intl Semicond Conf CAS 2012, Sinaia, Romania, pp 393-396 (conf BDI)</p>	0	1	4
4	<p>R.Matei – <i>Gaussian Shaped Multiband FIR and IIR 2D Filters</i>, 14th IEEE International Conference on Electronics, Circuits and Systems, ICECS 2007, December 11-14, 2007, Marrakech, Maroc, pp. 254-257 citată în:</p> <p>1. T. Nawaz et al., <i>Performance Evaluation of Noise Removal Algorithms for Scanned Images</i>, Intl Journal of Comp Sci Security, 3(3): 226-229, 2008 (revistă BDI)</p> <p>2. Rodrigues, J.X.; Gudino, L.J.; Pai, K.R. – <i>Design of Novel Sharp Transition Multiband FIR Filter</i>, 7th Intl Symp on Communication Systems Networks and Digital Signal Processing, 21-23 July 2010, pp. 336 – 340 doi: 10.1109/CSNDSP16145.2010.5580406 (conf BDI)</p> <p>3. J. X. Rodrigues, Lucy J. Gudino and K. R. Pai – <i>Sharp Transition Multiband Filter in Speech Processing Scheme for Hearing Impaired</i>, American Journal of Eng and Applied Sciences, 5(1), 2012, pp. 42-48, (revistă BDI) http://dspace.bits-pilani.ac.in:8080/xmlui/handle/123456789/8577</p>	0	3	12
5	<p>D.Matei, R.Matei – <i>Detection of Diabetic Symptoms in Retina Images Using Analog Algorithms</i>, Proc 7th WSEAS Intl Conf ISPRA'08, Cambridge, England, UK, Febr. 20-22, 2008, pp.198-203, citată în:</p> <p>1. S. Banerjee et al.– <i>Osteophyte detection for hand osteoarthritis identification in x-ray images using CNNs</i>, EMBC 2011, Boston, USA, pp. 6196-6199 (conf BDI) doi: 10.1109/IEMBS.2011.6091530</p> <p>2. P. Jitpakdee et al. – <i>A survey on hemorrhage detection in diabetic retinopathy retinal images</i>, 9th Intl Conf ECTI-CON 2012, Phetchaburi, Thailand, pp.1-4, doi: 10.1109/ECTICon.2012.6254356 (conf BDI)</p> <p>3. A. Agrawal et al. – <i>A Survey on Automated Microaneurysm Detection in Diabetic Retinopathy Retinal Images</i>, Intl Conf ISCON 2013, India, pp. 24-29, doi: 10.1109/ICISCON.2013.6524167 (conf BDI)</p>	2	12	32

	<p>4. R. Karthikeyan - <i>An Overview of Abnormality Detection in Retinal Images using Image Mining</i>, Intl Journal of Advanced Res in Comp Science, 3(3), 2012 (revistă BDI)</p> <p>5. A.R. Chowdhury, S. Banerjee - <i>Cellular Neural Network based algorithm in image analysis of age related macular degeneration</i>, 3rd IET Intl Conf SEISCON 2012 Chennai, India (conf BDI) https://digital-library.theiet.org/doi/10.1049/cp.2012.2243</p> <p>6. P. Bharali, J.P. Medhi, S.R. Nirmala - <i>Detection of hemorrhages in diabetic retinopathy analysis using color fundus images</i>, IEEE 2nd Intl Conf on Recent Trends in Info Syst, Kolkata, India, 2015, pp. 237-242 (conf BDI)</p> <p>7. S. Joshi, P T Karule - <i>A critical review of red lesion detection algorithms using fundus images</i>, International Journal of Diabetes in Developing Countries, 2018 https://doi.org/10.1007/s13410-018-0632-3 (revistă ISI)</p> <p>8. P-A Bokaris et al., <i>Hair Tone Estimation at Roots via Imaging Device with Embedded Deep Learning</i>, Intl Symp on Electronic Imaging 2019, California, US (conf BDI) doi: 10.2352/ISSN.2470-1173.2019.6.MAAP-483</p> <p>9. K S Kothare, K Malpe - <i>Design and Implementation of Inspection Model for knowledge Patterns Classification in Diabetic Retinal Images</i>, Intl Conf ICCMC, 2019, Erode, India, doi: 10.1109/ICCMC.2019.8819647 (conf BDI)</p> <p>10. S. Patil, K Malpe - <i>Implementation of Diabetic Retinopathy Prediction System using Data Mining</i>, Intl Conf ICCMC, 2019, Erode, India, (conf BDI) doi: 10.1109/ICCMC.2019.8819647</p> <p>11. P Jaware, S Borkar - <i>Haemorrhage Detection and Classification: A Review</i>, Int. Journal of Engineering Research and Application, 7(2), 2017, pp.52-58, doi: 10.9790/9622-0702045258 (revistă BDI)</p> <p>12. K Revindran Remya et al.- <i>A Review on Automatic Detection of Retinal Lesions in Fundus Images for Diabetic Retinopathy</i>, in: Signal and Image Processing Techniques for the Development of Intelligent Healthcare Systems. Springer, Singapore, 2021, pp. 177-202, https://doi.org/10.1007/978-981-15-6141-2_10 (rev BDI)</p> <p>13. R Mumtaz et al. - <i>Automatic detection of retinal hemorrhages by exploiting image processing techniques for screening retinal diseases in diabetic patients</i>, Intl Journal of Diabetes in Developing Countries 38(2), 2017, doi: 10.1007/s13410-017-0561-6 (revistă ISI)</p> <p>14. N S Datta et al., <i>A Review: Hemorrhage Detection Methodologies on the Retinal Fundus Image</i>, chapter in the book: Applications of Artificial Intelligence and Machine Learning, January 2021, doi: 10.1007/978-981-16-3067-5_27 (revistă BDI)</p>			
6	<p>R.Matei – <i>Multi-Directional Filters Designed From 1D Prototypes</i>, IEEE 55th Midwest Symposium on Circuits and Systems MWSCAS 2012, Boise, Idaho, USA, August 5-8, 2012, pp. 864-867 citată în:</p> <p>1. Jose Maria Giron-Sierra - <i>Digital Signal Processing with Matlab Examples</i>, Volume 2 (book), chapter: "Image and 2D Signal Processing", pp. 243-344, Series: "Signals</p>	0	1	4

	and Communication Technology”, Springer Singapore 2016, doi: 10.1007/978-981-10-2537-2_3 (revistă BDI)			
7	<p>R. Matei – Analytical Design Methods for Directional Gaussian 2D FIR Filters, Multidimensional Systems and Signal Processing (Springer), 27 (4), 2018 citată în:</p> <p>1. I. Arif et al. – <i>A Novel Word Length Selection Method for a Guaranteed H_∞ Interference Rejection Performance and Overflow Oscillation-Free Realization of 2-D Digital Filters</i>, Multidimens Syst and Signal Processing, 2017 https://doi.org/10.1007/s11045-017-0504-x (revistă ISI)</p> <p>2. T. Bindima, E. Elias - <i>Low-Complexity 2-D Digital FIR Filters Using Polyphase Decomposition and Farrow Structure</i>, IEEE Trans Circuits and Systems I: Regular Papers 66 (6) , 2019, pp. 2298-2308, (revistă ISI) doi: 10.1109/TCSI.2018.2889260</p> <p>3. George E. Antoniou, C A Coutras – <i>2D Standard/Reverse Lattice Digital Filters</i>, IEEE Intl Symp Signals, Circuits and Systems (ISSCS), 2019, Iași, Romania, doi: 10.1109/ISSCS.2019.8801770 (conf ISI)</p> <p>4. D Trofin, D Matei et al. – <i>Perspectives of Rehabilitation in Diabetic Neuropathy</i>, Balneo Research Journal, 12(1), 2021 pp 61–64, (revistă ISI) doi: http://dx.doi.org/10.12680/balneo.2021.420</p> <p>5. V Krishna Odugu et al. – <i>Implementation of Low Power Generic 2D FIR Filter Bank Architecture Using Memory-Based Multipliers</i>, Journal of Mobile Multimedia, 18(3), 2022, doi: https://doi.org/10.13052/jmm1550-4646.1836 (revistă BDI)</p> <p>6. Y. Peng et al. – Target Trajectory Estimation Algorithm Based on Time–Frequency Enhancement, IEEE Trans on Instrumentation and Measurement, vol. 72, pp. 1-7, 2023, art 8500807, doi: 10.1109/TIM.2022.3227997(revistă ISI)</p>	5	1	44
8	<p>R.Matei – “New Model and Applications of Cellular Neural Networks in Image Processing”, chapter in the book “Advanced Technologies”, INTECH Publisher, Vienna, Austria, 2009 citată în:</p> <p>1. P. Patro, K. Kumar. G.S. Kumar – <i>Cellular Neural Networks, Fuzzy Cellular Networks and Its Applications</i>, Intl Journal of Control Theory and Applications, 10 (19), 2017, (revistă BDI)</p> <p>2. J N.P. Martel, Y Sandamirskaya – <i>A Neuromorphic Approach for Tracking using Dynamic Neural Fields on a Programmable Vision-chip</i>, Proceedings, pp 148–154, https://doi.org/10.1145/2967413.2967444 (conf BDI)</p> <p>3. F. Wenxiang, X. Tao, L. Biwen, <i>Robustness analysis of fuzzy cellular neural network with deviating argument and stochastic disturbances</i>, IEEE Access, 2023 doi: 10.1109/ACCESS.2023.3233946 (revistă ISI)</p> <p>4. Fang, W., Xie, T., <i>Robustness analysis of exponential stability of fuzzy inertial neural networks through the estimation of upper limits of perturbations</i>, Neural Processing Letters 56, 119 (2024) (revistă ISI) https://doi.org/10.1007/s11063-024-11587-z</p>	2	2	24
9	R.Matei – Design of 2D Parametric Filters for Directional Gaussian Smoothing, 21st European Conference on Circuit Theory and Design, ECCTD’13, 8-12 September	0	1	4

	2013, Dresden, Germany, pp. 1-4 citată în: 1. D Nandan et al., <i>An error-efficient Gaussian filter for image processing by using the expanded operand decomposition logarithm multiplication</i> , Journal of Ambient Intelligence and Humanized Computing, July 2018, doi: 10.1007/s12652-018-0933-x (revistă BDI)			
10	R.Matei , L.Goraș – <i>A Class of Circularly-Symmetric CNN Spatial Linear Filters</i> , Facta Universitatis Nis, Serbia, Electronics and Energetics, 19 (2), 2006, pp.299-316 citată în: 1. Humayun, A.I., et al., <i>An Ensemble of Transfer, Semi-supervised and Supervised Learning Methods for Pathological Heart Sound Classification</i> . Proc. Interspeech 2018, 127-131, (conf BDI) doi: 10.21437/Interspeech.2018-2413 2. A. I. Humayun et al., <i>Learning Front-end Filter-bank Parameters using Convolutional Neural Networks for Abnormal Heart Sound Detection</i> , Annual Intl Conf EMBC, doi:10.1109/EMBC.2018.8512578 (conf BDI)	0	2	4
11	R. Matei , "A new design method for IIR diamond-shaped filters," 2010 18th European Signal Processing Conference, 2010, pp. 65-69 citată în: 1. Taiki Shinohara et al. – <i>A Closed-Form of 2-D Maximally Flat Diamond-Shaped Half-Band FIR Digital Filters with Arbitrary Difference of the Filter Orders</i> , IEICE Trans Fundamentals Electronics Communications and Computer Sciences E102, A(3):518-523, March 2019 doi: 10.1587/transfun.E102.A.518 (revistă ISI)	1	0	8
12	R.Matei , P.Ungureanu – <i>A Class of Gaussian-Shaped CNN Filter Banks</i> , 11th Intl. Workshop CNNA 2008, Santiago de Compostela, Spain, pp.135-139 citată în: 1. D O Pop et al. – <i>Pedestrian Recognition using Cross-Modality Learning in Convolutional Neural Networks</i> , IEEE Intelligent Transportation Systems Magazine, IEEE, 2019, doi: 10.1109/MITS.2019.2926364 (revistă ISI)	1	0	4
13	R.Matei , D.Matei – <i>Vascular Image Processing Using Recursive Directional Filters</i> , World Congress on Medical Physics and Biomedical Eng., Beijing, China, 2012, IFMBE Proc. Vol. 39, pp. 947-950 citată în: 1. S Arumugham, R. Rajeswari – <i>A modified Frangi's vesselness measure based on gradient and grayscale values for coronary artery detection</i> , Journal of Intelligent and Fuzzy Systems, July 2019, doi: 10.3233/JIFS-182613 (revistă ISI)	1	0	4
14	R.Matei , D.Matei, <i>Orientation-Selective 2D Recursive Filter Design Based on Frequency Transformations</i> , IEEE EUROCON 2009 Conf., St. Petersburg, Russia, May 18-23, 2009 citată în: 1. Cristian Rotariu, H Costin, R G Bozomitu – <i>New assistive technology for communicating with disabled people based on gaze interaction</i> , E-Health and Bioengineering Conf (EHB), Iași, Romania, 2019, doi: 10.1109/EHB47216.2019.8969981 (conf ISI) 2. D Trofin, D Matei, T Stamate et al. – <i>Perspectives of</i>	2	0	8

	<p><i>Rehabilitation in Diabetic Neuropathy</i>, Balneo Research Journal, 12(1), 2021 pp 61–64, (revistă ISI) doi: http://dx.doi.org/10.12680/balneo.2021.420</p>			
15	<p>R.Matei, D.Matei – Design and Applications of 2D Directional Filters Based on Frequency Transformations, 18th European Signal Proc. Conf. EUSIPCO 2010, Aalborg, Denmark, pp. 1695-1699</p> <p>1. Cristian Rotariu, H Costin, R G Bozomitu – <i>New assistive technology for communicating with disabled people based on gaze interaction</i>, E-Health and Bioengineering Conf (EHB), Iași, Romania, 2019, doi: 10.1109/EHB47216.2019.8969981 (conf ISI)</p>	1	0	4
16	<p>R.Matei, L.Goraș – Design Methods for CNN Spatial Filters with Circular Symmetry, 7th Seminar on Neural Network Appl. in Electr. Eng., NEUREL'2004, Belgrade, Serbia, pp.103-108 citată în:</p> <p>1. Xiangying Wei, Wei Feng, Shuyuan Wan, Jie Xu et al. – <i>Deep Learning and Distributed Data Storage System in Identity Recognition and Account Security</i>, IEEE 6th Intl Conf on Computer and Communications (ICCC), December 2020 (conf BDI) doi: 10.1109/ICCC51575.2020.9345299</p> <p>2. H. Chen et al., <i>Huicore: A Generalized Hardware Accelerator for Complicated Functions</i>, IEEE Trans on Circuits and Systems I: Regular Papers, 69(6), pp. 2463-2476, June 2022, doi: 10.1109/TCSI.2022.3152799 (revistă ISI)</p>	1	1	6
17	<p>R. Matei, "Analytical Design of Elliptically-Shaped 2D Recursive Filters," IEEE 61st International Midwest Symposium on Circuits and Systems (MWSCAS), Windsor, ON, Canada, pp. 964-967, 2018 citată în:</p> <p>1. George E. Antoniou, Constantine A. Coutras, <i>2D Lattice FIR digital filter with alternate delays: Minimal circuit and state-space realization</i>, Intl Symp on Signals, Circ and Systems ISSCS 2021, Iași, Romania, (conf BDI) doi: 10.1109/ISSCS52333.2021.9497429</p> <p>2. S Kumar, R Singh – <i>A Comprehensive Review and Analysis of Digital Filter Design</i>, Intl Journal of Advanced Research in Engineering and Technology (IJARET) 12 (1), 2021, pp. 1131-1149, (revistă BDI) doi: 10.34218/IJARET.12.1.2021.103</p>	0	2	8
18	<p>R. Matei, "Design Procedure for 2D Gaussian Anisotropic Filters," 2020 IEEE 63rd International Midwest Symposium on Circuits and Systems (MWSCAS), Springfield, MA, USA, 2020, pp. 174-177 citată în:</p> <p>1. S Huang et al. – <i>CMOS image sensor fixed pattern noise calibration scheme based on digital filtering method</i>, Microelectronics Journal, Vol 124, 2022, 105431, https://doi.org/10.1016/j.mejo.2022.105431 (revistă ISI)</p> <p>2. S Kumar, R Singh – <i>A Comprehensive Review and Analysis of Digital Filter Design</i>, Intl Journal of Advanced Research in Engineering and Technology (IJARET) 12 (1), 2021, pp. 1131-1149, (revistă BDI) doi: 10.34218/IJARET.12.1.2021.103</p>	1	1	12

19	<p>R. Matei, D. Matei, "Circular IIR Filter Design and Applications in Biomedical Image Analysis", 10th Intl. Conf. Electronics, Computers and Artificial Intelligence (ECAI), Iași, Romania, pp. 1-6, 2018 citată în:</p> <p>1. S Kumar, R Singh – <i>A Comprehensive Review and Analysis of Digital Filter Design</i>, Intl Journal of Advanced Research in Engineering and Technology (IJARET) 12 (1), 2021, pp. 1131-1149, (revistă BDI) doi: 10.34218/IJARET.12.1.2021.103</p> <p>2. A. Omar, D. Shpak, Panajotis Agathoklis, <i>Improved Design Method for Nearly Linear-Phase IIR Filters Using Constrained Optimization</i>, Journal of Circuits, Systems and Computers, 30(11), 2021 (revista BDI) https://doi.org/10.1142/S0218126621502078</p>	0	2	4
20	<p>R. Matei, <i>Closed-Form Design of 2D Filters with Elliptical and Circular Frequency Response</i>, European Conf on Circuit Theory and Design, Sofia, Bulgaria, 2020, pp. 1-4 citată în:</p> <p>1. S Kumar, R Singh – <i>A Comprehensive Review and Analysis of Digital Filter Design</i>, Intl Journal of Advanced Research in Engineering and Technology (IJARET) 12 (1), 2021, pp. 1131-1149, (revistă BDI) doi: 10.34218/IJARET.12.1.2021.103</p>	0	1	4
21	<p>R. Matei – A Class of Directional Zero-Phase 2D Filters Designed Using Analytical Approach, IEEE Transactions on Circuits and Systems I: Regular Papers, vol. 69, no. 4, pp. 1629-1640, April 2022 citată în:</p> <p>Ivo Petráš - <i>Novel Low-Pass Two-Dimensional Mittag-Leffler Filter and Its Application in Image Processing</i>, Fractal and Fractional. 2023; 7(12):881. https://doi.org/10.3390/fractalfract7120881</p>	1	0	8
22	<p>R. Matei and D. Matei, "Frequency Analysis of EEG Signals Using Band Energy Distribution", 2021 International Conference on eHealth and Bioengineering (EHB), pp. 1-4, 2021 citată în:</p> <p>Teng Zhang et al., Feasibility study of personalized speed adaptation method based on mental state for teleoperated robots, Frontiers in Neuroscience 16, 2022 doi: 10.3389/fnins.2022.976437, (jurnal ISI)</p>	1	0	4
TOTAL A3.1				246

A3.2 Membru in colectivele de redactie sau comitete științifice ale revistelor indexate ISI

Nr.crt.	Poziția	Punctaj
1	<p>Membru in comitetul tehnic de program - 47-th IEEE conference TSP (Telecommunications and Signal Processing) 2024 https://tsp.vutbr.cz/committees/</p> <p>Membru in comitetul tehnic de program - 46-th IEEE conference TSP</p>	40

	(Telecommunications and Signal Processing) 2023 https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10197729 Membru in comitetul tehnic de program - 45-th IEEE conference TSP (Telecommunications and Signal Processing) 2022 https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9851390 Membru in comitetul tehnic de program - 44-th IEEE conference TSP (Telecommunications and Signal Processing) 2021 https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9522640	
TOTAL A3.2		40

MATEI¹ RADU - CEZAR

