

## Rezoluție Comisie de verificare

## FISA DE VERIFICARE A INDEPLINIRII STANDARDELOR MINIMALE

Candidat NEAGU MĂDĂLINA-IOAN, înscris la concursul pentru ocuparea postului de SEF LUCRĂRI la Facultatea AUTOMATICĂ ȘI CALCULATOARE  
 Departament CALCULATOARE  
 poziția 56

Criteria / subcriteriu	Evaluare	Document doveditor
<b>1. Activitatea didactică</b>		
1.a. autor / coautor / lucrări didactice publicate la edituri recunoscute	1 (coautor)	(se regasesc in lista de lucrari)
1.b. autor / coautor / lucrări de laborator redactate și realizate practic	15, din care 3 ca prim autor	(se regasesc in lista de lucrari și în lista de lucrări de laborator)
<b>2. Activitatea științifică</b>		
2. a. autor / coautor / lucrări științifice publicate (conform criteriilor minimale aprobate de Senat)	18, din care 15 ca prim autor	(se regasesc in lista de lucrari)
2. b. autor / coautor / alte lucrări ( proiecte, studii, etc.)	1 carte	(se regasesc in lista de lucrari)
2. c. participări în colective de cercetare	<ul style="list-style-type: none"> <li>• Membru în grupul de cercetare QINE, Barcelona, Spania</li> <li>• Membru în proiectul FP7 TRAMS</li> <li>• Membru în proiectul TEC2013-J41209-P</li> </ul>	(se regasesc în lucrarile 2, 3, 4, 9, 10, 11, 14, 16, 19 din lista de lucrari)
<b>3. Activitate în folosul comunității academice</b>		
3. a. activitate în comisii permanente la nivel de departament / facultate / universitate	Da	Comisia de admitere AC
3. b. membru în structuri ale unor organizații naționale și internaționale	Nu	

Data 15.01.2019 Semnătura \_\_ (candidat) Neagu Madalina

Fisa de verificare

Candidat Domeniul **As. Dr. Ing. Neagu Mădălin-Ioan**  
**Calculatoare si Tehnologia Informatiei**

H-Index Google Scholar: 3  
 Scopuri: 2  
 Web of Science: 2

Nr. Crt	Domeniul activitatii	2	3	Subcategori	4	Indicatori (bpi)	5	Numar	Punctaj
1	Activitatea didactica si profesionala (A1)	Carti si capitole de carti de specialitate in edituri recunoscute	Carti, monografi, capitole ca autor	A1.1.1	Internationale	23	1	25	
		Material didactic/Lucrari didactice	Manuale didactice	A1.1.2	Nationale	20	0	0	
				A1.1.1		10	2	20	
<b>Total punctaj A(1)</b>									<b>45</b>
2	Activitatea de cercetare (A2)	Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings		A2.1		23+ 20 * factor impact) / nr. de autori	12	155.91333333	
		Articole in reviste si volumele unor manifestari stiintifice indexate in baza de date internationale (BDI)		A2.2		20 / nr. de autori	6	61.66666667	
		Proprietate intelectuala, brevete de inventie, certificate ORDA		A2.3.1	Internationale	35 / nr. de autori	0	0	
		Granturi/proiecte castigate prin competitie	Director / responsabil	A2.3.2	Nationale	25 / nr. de autori	0	0	
				A2.4.1	Internationale	20 * ani de desfasurare	0	0	
			Membri in echipa	A2.4.2	Nationale	10 * ani de desfasurare	0	0	
				A2.4.2.1	Internationale	4 * ani de desfasurare	2	16	
				A2.4.2.2	Nationale	2 * ani de desfasurare	0	0	
<b>Total punctaj A(2)</b>									<b>233.58</b>
3	Recunoasterea si impactul activitatii (A3)	Citari in carti, reviste si volume ale unor manifestari stiintifice		A3.1.1	Carti, ISI	9 / nr out art. citat	6	17.86666667	
		Prezentari invitate in plenul unor manifestari stiintifice nationale si internationale si profesor invitat	Punctaj unic pentru fiecare activitate	A3.1.2	BDI	4 / nr out art. citat	11	21.13333333	
		Membri in colectivele de redactie sau comitete stiintifice ale revistelor, organizator de manifestari stiintifice, internationale indexate ISI	Punctaj unic pentru fiecare activitate	A3.2.1	Internationale	10	0	0	
				A3.2.2	Nationale	5	0	0	
				A3.3.1	ISI	10	0	0	
				A3.3.2	BDI	6	0	0	
				A3.3.3	nationale si internationale reindexate	3	0	0	
		Premii in domeniu		A3.4.1	Academica Româna, ASTR, Academii de stiinta, premii internationale	15	0	0	
				A3.4.2	premiu nationale in domeniu	5	0	0	
<b>Total punctaj A(3)</b>									<b>39</b>

Crt	Domeniul de activitate (A)	Realizat
A1	Activitatea didactica / profesionala (A1)	45
A2	Activitatea de cercetare (A2)	233.58
A3	Recunoasterea si impactul activitatii (A3)	39
<b>Total (A)</b>		<b>317.53</b>

Crt	Domeniul de activitate (A)	Necesar sau Intârit	Realizat
A1.1.-A1.1.2	Carti si capitole in carti de specialitate	0	1
A1.2.1-A1.2.2	Material didactic / Lucrari didactice	1	2
A2.1.- A2.2.	Articole in reviste recunoscute CNCSIS sau volume ale manifestarilor nationale sau internationale indexate in baza de date (lucrările stiintifice publicate in revista indexate ISI vor fi multiplicata cu 2)	15	18
A2.4.1	Granturi/proiecte castigate prin competitie (Director/ responsabil)	0	0
A2.4.2	Membri in echipe de proiect	1	2
A3.1.1-A3.1.2	Numar de citari in carti, reviste si volume ale unor manifestari stiintifice ISI sau BDI	0	17
	Factor de impact cumulat pentru publicatii	0	4.471

Observatii  
 1 In drumator de laborator și B lucrări de laborator  
 2 lucrări în reviste cotate ISI

A1.1.1. Carti si capitole de carti in edituri Internationale

Nr	Autorii	Titlu lucrare / revista (conferinta)	Factor de Impact	Nr. Autori	Punctaj
1	Neagu, M., Manich, S.	Self-healing and Secure Low-Power Memory Systems, LAP LAMBERT Academic Publishing, 2017, ISBN 978-3-659-64724-6	Online, <a href="https://www.lap-publishing.com/catalog/details/?language=book/978-3-659-64724-6/self-healing-and-secure-low-power-memory-systems?">https://www.lap-publishing.com/catalog/details/?language=book/978-3-659-64724-6/self-healing-and-secure-low-power-memory-systems?</a>	2	2017

A1.2.1. Material didactica

Nr	Autorii	Titlu lucrare / revista (conferinta)	Factor de Impact	Nr. Autori	Punctaj
1	Anca Hangan, Madalin Neagu	Structure of Computer Systems, B laboratory Works	Online, <a href="http://users.utcluj.ro/~madalin/teaching-SCS.html">http://users.utcluj.ro/~madalin/teaching-SCS.html</a>	2	2013
2	Oprisa, C., Hangan, A. Neagu, M., Cebuc, E., Sebestyen, G.	Programare In Limba de Asamblare, In drumator de laborator, UT PRESS, Cluj-Napoca, 2018, ISBN 978-606-737-333-2	Online, <a href="https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/333-2.pdf">https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/333-2.pdf</a>	2	2018

A2.1. Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings

Nr	Autorii	Titlu lucrare / revista (conferinta)	Factor de Impact	Nr. Autori	Punctaj
1	Neagu, M., Salvador, M.	"Defending cache memory against cold-boot attacks boosted by power or EM radiation analysis", Microelectronics Journal, Volume 62, pp. 85-98, 2017, ISSN 0026-2692	1.332	2	25.82
2	Neagu, M., Miclea, L., Salvador, M.	"Improving Security in Cache Memory by Power Efficient Scrambling Technique", IET Computers & Digital Techniques, Volume 9, Issue 6, pp. 283 - 292, 2015, ISSN 1751-8601	0.639	3	17.59333333333333
3	Neagu, Madalin; Miclea, Liviu; Manich, Salvador	"Defeating Simple Power Analysis Attacks in Cache Memories", Proceedings of the 2015 30th Conference on Design of Circuits and Integrated Systems (DCIS), Noiembrie, 25 - 27, 2015, Estoril, Portugalia, pp. 1 - 6, ISBN 978-1-4673-7228-2	0.25	3	10
4	Madalin Neagu, Liviu Miclea, Salvador Manich	"Interleaved Scrambling Technique: A Novel Low-Power Security Layer for Cache Memories", in 2014 19TH IEEE EUROPEAN TEST SYMPOSIUM (ETS 2014), pp. 241 - 243, 2014	0.25	3	10
5	Madalin Neagu, Liviu Miclea	"Protecting Cache Memories through Data Scrambling Technique", in 2014 IEEE INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING COMMUNICATION AND PROCESSING (ICCP), pp. 297-303, 2014	0.25	2	15
6	Madalin-Ioan Neagu, Liviu Miclea	"Data Scrambling in Memories: A Security Measure", in 2014 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, 2014	0.25	2	15
7	Neagu, M., Sebestyen, G.	"Increasing Memory Security through Information Entropy Models", Proceedings of the 15th IEEE International Symposium on Computational Intelligence and Informatics (CINTI), Noiembrie, 19 - 21, 2014, Budapest, Ungaria, pp. 49-53, ISBN 978-1-4799-5338-7	0.25	2	15
8	Neagu, M., Mor, G., Miclea, L.	"On-Line Error Detection for Tuning Dynamic Frequency Scaling", Proceedings of the 2012 18th IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Mai, 24 - 27, 2012, Cluj-Napoca, Romania, pp. 290 - 295, ISBN 978-1-4673-0704-8	0.25	3	10

9	Neagu, M., Miclea, L.	"Modified Berger Codes for On-Line DRAM Repair Strategies", Proceedings of the 2012 18th IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Mai, 24 - 27, 2012, Cluj-Napoca, Romania, pp. 296 - 301, ISBN 978-1-4673-0704-8	0.25	2	15
10	Folea, S., Neagu, M., Mois S.	"Multi-Purpose Sensor Platform Development", Proceedings of the 2012 18th IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Mai, 24 - 27, 2012, Cluj-Napoca, Romania, pp. 341-346, ISBN 978-1-4673-0704-8	0.25	3	10
11	Neagu, M., Miclea, L., Figueras, J.	"Unidirectional error detection, localization and correction for DRAMs: Application to on-line DRAM repair strategies", Proceedings of the 2011 IEEE 17th International On-Line Testing Symposium (IOLTS), Iulie, 13 - 15, 2011, Atena, Grecia, pp. 264-269, ISBN 978-1-4577-1056-8	0.25	3	10
12	Lazar, M.G., Vălean, M., Neagu, M., Miclea, L.	"Biodiversity management system in Rodna Mountains National Park", Proceedings of IEEE International Conference on Automation Quality and Testing Robotics (AQTR), Cluj-Napoca, Romania, Vol. 3, pp. 1 - 5, 2010	0.25	4	7.5

Factor Impact cumulat

4.471

Total punctaj A2.1.

155.913333333333

**A2.2. Articole in reviste si volume ale unor manifestari stiintifice indexate in baza de date internationale (BDI)**

Nr.	Autori	Titlu lucrare / revista (conferinta)	Baza de date	Nr. Autori	Punctaj
1	Neagu, M.	"Sustainable Smart Cities: A Fog Computing Framework for a Smart Urban Transport Network", Studia Universitatis "Vasile Goldis" Arad Economics Series, Vol. 28, No. 4, pp. 68 - 80, 2018, ISSN 1584 - 2339	Google Scholar	1	20
2	Neagu, M., Teodorescu, M.C.	"Testing the Engel's law in the consumption pattern of Romanian population", Studia Universitatis "Vasile Goldis" Arad Economics Series, Vol. 27, No. 3, pp. 33 - 53, 2017, ISSN 1584 - 2339	Google Scholar	2	10
3	Neagu, M., Rodríguez Montañés, R., Arumí Delgado, D., Manich Bou, S.	"Random masking interleaved scrambling technique as a countermeasure for DPA/DEMA attacks in cache memories", TRUDEVICE - 8th Conference on Trustworthy Manufacturing and Utilization of Secure Devices (TRUDEVICE 2016), Barcelona, 14-16 November, 2016	Google Scholar	4	5
4	Neagu, Olimpia, Madalin-Ioan Neagu	"Regional specialization and economic concentration in Romania", Studia Universitatis "Vasile Goldis" Arad Economics Series, Volume 26, Issue 3, pp. 1-17, 2016, ISSN 2263-3061	Google Scholar	2	10
5	Madalin Neagu, Liviu Miclea, Salvador Manich	"On the use of error detecting and correcting codes to boost security in caches against side channel attacks", in TRUDEVICE Workshop, DATE - Design, Automation & Test in Europe Conference & Exhibition: 9-13 March 2015, Grenoble, France, 2015	Google Scholar	3	6.66666666666667
6	Madalin Neagu, Liviu Miclea	"On-Line Error Detecting Codes for DRAMs", ACAM Journal: Automation, Computers, Applied Mathematics, Vol. 20, Nr. 7, pp. 133 - 136, 2011	Google Scholar	2	10

Total punctaj A2.2.

61.6666666666667

**A2.4.2.1 Granturi/proiecte castigate prin competitie; membri in echipe**

Nr.	Tip: nat / Internat.	Denumirea proiect	Perioada	Nr. Ani	Punctaj
1	International	TRANS: Teraccale Retable Adaptive Memory Systems (Referinta: FP7-248789)	2010-2011	1	4
2	International	Análisis y técnicas de mejora de la robustez y seguridad de circuitos nanométricos en presencia de ataques, defectos, variabilidad y Aging (FEC2013-341200-B)	2014-2017	3	12

Total punctaj A2.4.2.1

16

**A3.1.1. Citari in carti, reviste si volume ale unor manifestari stiintifice (carti, ISI)**

Nr.	Articol citat	Articol care citeaza	Numer autori art.citat	Punctaj
1	Folea, S., Neagu, M., Mois S., Miclea, L., "Multi-Purpose Sensor Platform Development", Proceedings of the 2012 18th IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), pp. 341-346, 2012	Qian, L., et al., "Recover Fault Services via Complex Service-to-Node Mappings in Wireless Sensor Networks", Journal of Network and Systems Management, Volume 23, Issue 3, pp. 474 - 501, 2015	4	2
2	Folea, S., Neagu, M., Mois S., Miclea, L., "Multi-Purpose Sensor Platform Development", Proceedings of the 2012 18th IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), pp. 341-346, 2012	Henni O, Belarbi M, Haddouche K, Belarbi EM., "Design and implementation of a Low-Cost Characterization System for Photovoltaic Solar Panels", International Journal of Renewable Energy Research (IJRER), 7(4), pp. 1586-1594, 2017	4	2
3	Neagu, M., Miclea, L., "Protecting Cache Memories through Data Scrambling Technique", 10th International Conference on Intelligent Computer Communications and Processing (ICCP), pp 297 - 303, Cluj-Napoca, Romania, 2014	Lu D, Luo X, Li Y, Shao Z, Guan Y., "An energy-efficient encryption mechanism for NVM-based main memory in mobile systems", Journal of Systems Architecture, 76, pp. 47-57, 2017	5	1.6
4	Neagu, M., Sebestyen, G., "Increasing Memory Security through Information Entropy Models", 15th IEEE International Symposium on Computational Intelligence and Informatics (CINTI), pp. 49-53, Budapest, Hungary, 2014	Lu D, Luo X, Li Y, Shao Z, Guan Y., "An energy-efficient encryption mechanism for NVM-based main memory in mobile systems", Journal of Systems Architecture, 76, pp. 47-57, 2017	5	1.6

5	Neagu, M., Miclea, L., Salvador, M., "Improving Security in Cache Memory by Power Efficient Scrambling Technique", IET Computers & Digital Techniques, Volume 9, Issue 6, pp. 283 - 292, 2015, ISSN 1751-8601	Halak B., "Security Attacks on Physically Unclonable Functions and Possible Countermeasures", In Physically Unclonable Functions, pp. 131-162, Springer, Cham, 2016	1	8
6	Neagu, M., Salvador, M., "Defending cache memory against cold-boot attacks boosted by power or EM radiation analysis", Microelectronics Journal, Volume 62, pp. 85-98, 2017, ISSN 0026-2692	Su Y, Shen JW, Zhang MQ., "A high security and efficiency protection of confidentiality and integrity for off-chip memory", Journal of Ambient Intelligence and Humanized Computing, pp. 1-11, 2018	3	2.666666666666667

Total punctaj A3.1.1.

17.866666666666667

A3.1.2. Citari in carti, reviste si volume ale unor manifestari stiintifice (BDI)

1	Neagu, M., Miclea, L., "Protecting Cache Memories through Data Scrambling Technique", 12th International Conference on Intelligent Computer Communication and Processing (ICCP), pp. 297-303, 2014	Luo, Xianlu, Duo Liu, Liang Liang, Yang Li, Kan Zhong, and Linbo Long, "MobiLock: an energy-aware encryption mechanism for NVRAM-based mobile devices." In Non-Volatile Memory System and Applications Symposium (NVMISA), pp. 1-6, IEEE, 2015	2	2
2	Neagu, M., Miclea, L., "Data Scrambling in Memories: A Security Measure", Proceedings of the 2014 19th IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), pp. 1 - 6, 2014	Jose, Jisml, Kirti S. Pande, and N. S. Murty, "A memory architecture using linear and nonlinear feedback shift registers for data security." In 2013 IEEE International Conference on Computational Intelligence and Computing Research (ICICR), pp. 1-5, 2013	2	2
3	Neagu, M., Moad, G., Miclea, L., "On-Line Error Detection for Tuning Dynamic Frequency Scaling", Proceedings of the 2012 18th IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), pp. 290 - 295, 2012	Sullivan, Michael B. and Earl E. Swartzlander, "Low-Cost Duplicate Multiplication." In Computer Arithmetic (ARITH), 2015 IEEE 22nd Symposium on, pp. 2-9, 2015	3	1.3333333333333333
4	Neagu, M., Miclea, L., Figueras, J., "Unidirectional error detection, localization and correction for DRAMs Application to on-line DRAM repair strategies", Proceedings of the 2011 IEEE 17th International On-Line Testing Symposium (IOLTS), Athens, Greece, pp. 264-269, 2011	Kran, K. Sudarshan C, Mathew DH, Wess C, Wehn N, Jung M., "Improving the error behavior of DRAM by exploiting its 2-channel property", in IEEE Design, Automation & Test in Europe Conference & Exhibition (DATE), pp. 1492-1495, 2018	6	0.6666666666666667
5	Neagu, M., Miclea, L., Figueras, J., "Unidirectional error detection, localization and correction for DRAMs Application to on-line DRAM repair strategies", Proceedings of the 2011 IEEE 17th International On-Line Testing Symposium (IOLTS), Athens, Greece, pp. 264-269, 2011	Solihin, Yan, "Detecting unidirectional resistance drift errors in a multilevel cell of a phase change memory". U.S. Patent No. 9,501,350, 2016	1	4
6	Neagu, M., Sebestyen, G., "Increasing Memory Security through Information Entropy Models", 13th IEEE International Symposium on Computational Intelligence and Informatics (CINTI), pp. 49-53, Budapest, Hungary, 2014	U KF, Attarmoghaddam N., "Challenges and Methodologies of Hardware Security". In IEEE 32nd International Conference on Advanced Information Networking and Applications (AINA), pp. 628-633, IEEE, 2018	2	2
7	Neagu, M., Miclea, L., Stanca, S., "Defeating Simple Power Analysis Attacks in Cache Memories", in Proceedings of the 2015 30th Conference on Design of Circuits and Integrated Systems (DCIS), pp. 1 - 6, Estoril, Portugal, 2015	Dai C, Adegbija T., "Exploiting configurability as a defense against cache side channel attacks", in IEEE Computer Society Annual Symposium on VLSI (ISVLSI), pp. 495-500, IEEE, 2017	2	2

8	Neagu, D., Neagu, M., "Regional Specialisation and Economic Concentration in Romania", Studia Universitatis "Vasile Goldis" Arad Economics Series, Vol. 26, No. 3, pp. 1 - 17, 2016, ISSN 1584 - 2339	Gaga L, Gebor A, Naaji A, Popescu MC. "Analysis of the Evolution of SMEs In Western Romania Between 2011-2014, Using the Mathematical Modeling", Studia Universitatis „Vasile Goldis” Arad-Economics Series, 26(4), pp. 94-107, 2016	4	1
9	Neagu, D., Neagu, M., "Regional Specialisation and Economic Concentration in Romania", Studia Universitatis "Vasile Goldis" Arad Economics Series, Vol. 26, No. 3, pp. 1 - 17, 2016, ISSN 1584 - 2339	Pinkovetskale I., "Sectoral concentration and regional specialisation of Small and Medium Enterprises (SMEs) In Russia: Application of Krugman Index". The Journal of Contemporary Issues in Business and Government, 23(1), p. 20, 2017	1	4
10	Neagu, D., Neagu, M., "Regional Specialisation and Economic Concentration in Romania", Studia Universitatis "Vasile Goldis" Arad Economics Series, Vol. 26, No. 3, pp. 1 - 17, 2016, ISSN 1584 - 2339	Pribac L, Ardelean D, Dudeş L, Haiduc C, Anghelina A, "Aspects of youth competencies in the 21st century in the European Union", Studia Universitatis „Vasile Goldis” Arad-Economics Series, 27(4), pp. 12-25, 2017	5	0.8
11	Neagu, D., Neagu, M., "Regional Specialisation and Economic Concentration in Romania", Studia Universitatis "Vasile Goldis" Arad Economics Series, Vol. 26, No. 3, pp. 1 - 17, 2016, ISSN 1584 - 2339	Groze O, Sandu A, de Lille LC., "Trajectoires et inerties territoriales en Europe Centre-orientale", In Les défis de développement pour les villes et les régions dans une Europe en mutation, 2017	3	1.33333333333333

Total punctaj A3.1.2.

21.1222222222222



REZOLUTIE INDEPLINIRE STANDARDE MINIMALE

In urma analizei dosarului de concurs depus de candidatul/a **VEAGU MADALIN IOAN**  
pentru postul **ŞEF Lucrări TB** din Statul de functii al Departamentului de  
**CALCULATORALE**

Comisia de analiza apreciaza ca **SUNT** ~~NU SUNT~~ indeplinite standardele minimale pentru  
participarea la concurs.

Motivatie (doar in cazul in care nu sunt indeplinite standardele minimale)

Comisia de analiza

Prof.dr.ing. Mihaela Dipsoreanu

Prof.dr.ing. Eva Dulf

Conf.dr.mat. Daniela Inoan