

FIȘA DE VERIFICARE

A ÎNDEPLINIRII STANDARDELOR MINIMALE NECESARE ȘI OBLIGATORII

**pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare - dezvoltare de
prezentare la concurs pentru postul de profesor universitar (în vederea obținerii atestatului de abilitare)**

(Comisia electronică, telecomunicații și nanotehnologii)

I. DATE DESPRE CANDIDAT

NUME NAFORNIȚĂ PRENUME CORINA-ALDA Data nașterii:

Postul pentru care candidează Profesor universitar,

Departamentul de Comunicații, Facultatea de Electronică și Telecomunicații. Universitatea "Politehnica" din Timișoara

Gradul didactic actual conferențiar poziția în statul de funcții 12; Data numirii în funcția actuală: 2013

Disciplinele Detecție și estimare în teoria informației, Signals and Systems, Signal Processing

Departamentul de Comunicații, Facultatea de Electronică și Telecomunicații. Universitatea "Politehnica" din Timișoara

II. DATE PRIVIND ÎNDEPLINIREA CONDIȚIILOR DE CONCURS

1. Studii universitare de licență și masterat

Nr. crt.	Instituția de învățământ superior	Domeniul	Perioada	Titlul acordat
1	Universitatea "Politehnica" Timișoara	specializarea Procesarea Semnalelor (Traitement du Signal)	2003 - 2004	Diplomă de Studii Aprofundate
2	Universitatea "Politehnica" din Timișoara	profilul Electronic, specializarea Comunicații	1998 - 2003	Diplomă de Licență

2. Studii universitare de doctorat

Nr. crt.	Instituția organizatoare de doctorat	Domeniul	Perioada	Titlul științific acordat
1	Universitatea Tehnică din Cluj-Napoca, IOSUD principală, Universitatea "Politehnica" Timișoara, IOSUD secundară	Inginerie Electronică și Telecomunicații	2004 - 2008	Diplomă de Doctor

3. Studii și burse postdoctorale

Nr. crt.	Instituția organizatoare	Domeniul	Perioada	Obs.

4. Grade didactice/profesionale

Nr. crt.	Instituția	Domeniul	Perioada	Titlul/funcția didactică/ grad profesional
1	Universitatea "Politehnica" din Timișoara	Telecomunicații	2003-2006	Preparator
2	Universitatea "Politehnica" din Timișoara	Telecomunicații	2006 - 2008	Asistent
3	Universitatea "Politehnica" din Timișoara	Telecomunicații	2008 - 2013	Sef de lucrări
4	Universitatea Politehnica Timișoara	Telecomunicații	2013-prezent	Conferențiar

III. DATE PRIVIND ÎNDEPLINIREA STANDARDELOR MINIMALE NAȚIONALE

1. Structura activității candidatului

Tabelul 1. Activitatea didactică și profesională (A1)

Activitatea didactică și profesională (A1)			Realizări	Punctaj/ realizare	Număr impus de realizări	Număr de realizări ale candidatului	Număr puncte
A.1.1.1 internationale	Carti si capitole in carti de specialitate in edituri recunoscute	Carti/Monografii/ capitole ca autor	1. Nafornita Corina , Isar Alexandru, Application of Discrete Wavelet Transform in Watermarking, Discrete Wavelet Transforms - Algorithms and Applications (capitol), Hannu Olkkonen (Ed.), ISBN: 978-953-307-482-5, InTech, 2011, 22 pag din 296	25	A.1.1 – A1.1.2 4 carti/ capitole	2	50
			2. Alexandru Isar, Ioana Firoiu, Nafornita Corina, Sorin Moga , SONAR Images Denoising, Sonar Systems (capitol), InTech, ISBN: 978-953-307-345-3, 2011, 34 (din 322)	25			
A.1.1.2 nationale	Carti si capitole in carti de specialitate in edituri recunoscute	Carti/Monografii/ capitole ca autor	3. Nafornita Corina , Signals and Systems, vol. 1, Ed. Politehnica, ISBN 978-606-554-013-2 (978-606-554-014-9 vol I) 2009, 355 pag	20		4	80
			4. Nafornita Corina , Contributii la marcarea transparenta a imaginilor in domeniul transformatei wavelet, Inginerie Electronica si Telecomunicatii, Prelucrarea Semnalelor, Editura Politehnica, ISSN 1842-7014/ISBN 978-973-625-774-2. 2008, 240pag.	20			
			5. Nafornita Corina , Atacuri asupra imaginilor marcate transparent, Ed. Politehnica, ISBN 978-973-625-414-7, 2007, 130 pag	20			
			6. Nafornita Corina , Digital Watermarking in the Wavelet Domain Politehnica Publishing House, ISBN 973-625-236-1, 2005, 42 pag	20			
A1.2.1	Material didactic/Lucrari didactice	Manuale didactice	1. Nafornita Corina , Culegere de probleme de teoria probabilitatilor si procese aleatoare, http://shannon.etc.upt.ro/corina/publications.html#Books anul 3 ETC, 2008, 46 pag	10	A.1.2.1- A1.2.2 2	8	80

			2. Naforrita Corina , Signals and systems, note de curs, http://shannon.etc.upt.ro/teaching/ss-pi/ , an 2 Politehnica International, ETC 2010, 295p	10			
			3. Naforrita Corina , Signal Processing, note de curs, http://shannon.etc.upt.ro/teaching/sp-pi/ an 2 Politehnica International, ETC 2010 245p	10			
			4. Naforrita Corina , Kovaci Maria, Gal Janos, Semnale si sisteme, laborator http://shannon.etc.upt.ro/teaching/ssist/an 2 ETC 2010, 32pag	10			
			5. Naforrita Corina , Signals and systems, laborator, http://shannon.etc.upt.ro/teaching/ss-pi/an 2 Politehnica International, ETC, 2010 , 30pag	10			
			6. Naforrita Corina , Signal Processing, laborator, http://shannon.etc.upt.ro/teaching/sp-pi/an 2 Politehnica International, ETC, 2010, 25pag	10			
			7. Naforrita Corina , Signals and Systems, seminar http://shannon.etc.upt.ro/teaching/ss-pi/an 2 Politehnica International, ETC, 2010, 57pag	10			
			8. Naforrita Corina , Signal Processing, seminar, http://shannon.etc.upt.ro/teaching/sp-pi/an 2 Politehnica International, ETC, 2010, 111pag	10			
Total puncte A.1 (min. 50)							210

Tabelul 2. Activitatea de cercetare științifică (A2)

Activitatea de cercetare științifică (A2)	Realizări	Punctaj/ realizare	Număr impus de realizări	Număr de realizări ale candidatului	Număr puncte
A2.1 Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings (25+20* factor impact)/nr.autori Factor impact = 0.25 pt ISI proceedings	1. Corina NAFORNITA , Adrian MACAVEIU, Alexandru ISAR, Ioan NAFORNITA, Andrei CAMPEANU, Envelope Detector with Denoising to Improve the Detection Probability, pp 59-64. May 29-31, 2014, Bucharest, 10th International Conference on Communications, COMMUNICATIONS 2014, factor 0.25	6	12	24	313.51
	2. Isar, A.; Naforrita, C. , On the statistical decorrelation of the 2D discrete wavelet transform coefficients of a wide sense stationary bivariate random process Digital Signal Processing Volume: 24	27.45			

	Pages: 95-105 Published: 2014, DOI: 10.1016/j.dsp.2013.10.001 factor 1.495			
	3. Corina Nafornta , Alexandru Isar, Estimating directional smoothness of images with the aid of the hyperanalytic wavelet packet transform, Signals, Circuits and Systems (ISSCS), 2013 International Symposium on , IEEE Xplore, Iasi, Romania, ISBN 978-1-4799-3193-4 , 1, 4 WOS:000337926700024 factor 0.25 ,	15		
	4. Nafornta, C. , Isar, A., A complete second order statistical analysis of the Hyperanalytic Wavelet Transform, 2012 10th International Symposium on Electronics and Telecommunications, ISETC 2012 – Conference Proceedings , art. no. 6408040 , pp. 227-230 factor 0.25 ,	15		
	5. Nafornta, C. , Isar, A., Nafornta, I., The Hyperanalytic Wavelet Packets - A solution to increase the directional selectivity in image analysis, 2012 10th International Symposium on Electronics and Telecommunications, ISETC 2012 – Conference Proceedings , art. no. 6408041 , pp. 231-234, factor 0.25 ,	10		
	6. Schutz, A., Berthoumieu, Y., Turcu, F., Nafornta, C. , Isar, A., Barycentric distribution estimation for texture clustering based on information-geometry tools, 2012 10th International Symposium on Electronics and Telecommunications, ISETC 2012 – Conference Proceedings , art. no. 6408132 , pp. 343-346, factor 0.25 ,	6		
	7. Nafornta Corina , Berthoumieu Y., Nafornta I., Isar A., Kullback-Leibler Distance Between Complex Generalized Gaussian Distributions, 20th European Signal Processing Conference, EUSIPCO 2012 27-31Aug Bucuresti, Romania, 2012 August ISSN 2076-1465, pp 1850-1854, factor 0.25	7.5		
	8. Firoiu Ioana, Nafornta Corina , Isar Dorina, Isar Alexandru, Bayesian Hyperanalytic Denoising of SONAR Images, Geoscience and Remote Sensing Letters, IEEE, 2011,8(6), 1065-1069, factor 1.809	15.30		
	9. Arvinti, B.; Nafornta, C. ; Alexandru, I.; Costache, M.; ECG signal compression using wavelets. Preliminary results, 2011 10th International Symposium on Signals, Circuits and Systems (ISSCS), 2011 , pp. 1 - 4 ISI-P , factor 0.25	7.5		
	10. Nafornta Corina , Isar Dorina, Isar Alexandru, Searching the most appropriate mother wavelets for Bayesian denoising of sonar images in the Hyperanalytic Wavelet domain Statistical Signal	10		

	Processing Workshop, Nice, France 2011 28-30 June, 978-1-4577-0569-4 , pp 169 – 172 factor 0.25,			
	11. Firoiu Ioana, Nafornita Corina, Boucher Jean-Marc, Isar Alexandru, Searching Appropriate Mother Wavelets for Hyperanalytic Denoising, ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, 2010, vol. 10(4) pp. 125-128, factor 0.642,	9.46		
	12. Nafornita Corina, Ioana Firoiu, Dorina Isar, Jean-Marc Boucher, Alexandru Isar "A Second Order Statistical Analysis of the 2D Discrete Wavelet Transform", Proceedings of IEEE International Conference Communications 2010, Bucuresti, Romania, June 10-12, 2010 June, 978-1-4244-6363-3 145-148 factor 0.25,	6		
	13. Nafornita Corina, Ioana Firoiu, Dorina Isar, Jean-Marc Boucher, A. Isar, A Second Order Statistical Analysis of the Hyperanalytic Wavelet Transform, 9th IEEE International Symposium of Electronics and Telecommunications, ISETC 2010, Timisoara, Romania, 2010 November, 978-1-4244-8458-4 311-314, factor 0.25,	6		
	14. Ioana Adam(Firoiu), Nafornita Corina, Jean-Marc Boucher, Alexandru Isar, Image Denoising Using a New Implementation of the Hyperanalytic Wavelet Transform, IEEE Transactions on Instrumentation and Measurement, august 2009, vol. 58, no. 8, pp. 2410-2416, 2009 , factor 1.710	14.80		
	15. Nafornita Corina, Alexandru Isar, On the Choice of the Mother Wavelet for Perceptual Data Hiding IEEE International Symposium on Signals, Circuits and Systems ISSCS 2009, Iasi, Romania, 9-10 July 2009, vol.1, pp. 233-236, ISBN 978-1-4244-3784-9 2009 July ISBN 978-1-4244-3784-9 4 factor 0.25,	15		
	16. Nafornita Corina, Alexandru Isar, Maria Kovaci Increasing Watermarking Robustness using Turbo Codes IEEE International Symposium on Intelligent Signal Processing WISP 2009, Budapest, Hungary, 26-28 August 2009, pp. 113 - 118 2009 August ISBN: 978-1-4244-5058-9 6 factor 0.25,	10		
	17. Nafornita Corina, I. Firoiu, J.-M. Boucher, A. Isar A New Watermarking Method Based on the Use of the Hyperanalytic Wavelet Transform Proc. SPIE Europe: Photonics Europe, vol. 7000: Optical and Digital Image Processing 7000W, pp.7000W-1-7000W-12, ISBN 97808194 71987, Strasbourg, April, 2008 2008 April ISBN 97808194 71987 12, factor 0.25	7.5		

	18. Nafornita Corina Robustness Evaluation of Perceptual Watermarks International Symposium on Signal, Circuits and Systems, ISSCS 2007, Iasi, Romania, 12-13 July 2007, 2007 July ISBN: 1-4244-0969-1 factor 0.25	30			
	19. Ioana Adam, Nafornita Corina, Jean-Marc Boucher, Alexandru Isar A New Implementation of the Hyperanalytic Wavelet Transform International Symposium on Signal, Circuits and Systems, ISSCS 2007, Iasi, Romania, 12-13 July 2007, ISBN: 1-4244-0969-1 factor 0.25	punctaj 7.5			
	20. Nafornita Corina A New Pixel-Wise Mask for Watermarking Proc. of ACM Multimedia and Security Workshop 2007, Dallas, TX, USA 2007 September ISBN 978-1-59593-857-2 221-228, factor 0.25	punctaj 30			
	21. I. Adam, Nafornita Corina, J.-M. Boucher, A. Isar, A Bayesian Approach of Hyperanalytic Wavelet Transform Based Denoising Proc. IEEE Int. Symp. on Intelligent Signal Processing WISP2007, Alcala de Henares, Madrid, Spain, Oct. 3-5, 2007 2007 Oct ISBN: 978-1-4244-0829-0 6 factor 0.25,	punctaj 7.5			
	22. Nafornita Corina, Alexandru Isar, Monica Borda, Improved Pixel-Wise Masking for Image Watermarking in Multimedia Content Representation, Classification and Security, September 11-13, 2006, Istanbul, Turkey, Lecture Notes in Computer Science, Springer-Verlag, pp 90-97 2006 Sept ISSN 0302-9743 /ISBN 978-3-540-39392-4 8 factor 0.25,	punctaj 10			
	23. Nafornita Corina, Alexandru Isar, Monica Borda, Image Watermarking Based on the Discrete Wavelet Transform Statistical Characteristics Proc. of IEEE EUROCON 2005 - The International Conference on "Computer as a tool", November 21-24, 2005, Belgrade, Serbia and Montenegro, pp. 943-946, ISBN 1-4244-0050-3 2005 November ISBN 1-4244-0050-3 factor 0.25,	punctaj 10			
	24. Nafornita Corina Improved Detection for Robust Image Watermarking Proc. Of International Symposium on Signal, Circuits and Systems, ISSCS2005, Iasi, Romania, 14-15 July 2005, vol. 2, pp.473-476, ISBN 0-7803-9029-6 2005 July ISBN 0-7803-9029-6 factor 0.25	punctaj 30			
A2.2 Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale (BDI)	1. Nafornita, C., Isar, A., and Nelson, J. D. B., Regularised, semi-local Hurst estimation via generalised lasso and dual-tree complex wavelets" IEEE International Conference on Image Processing ICIP 2014, Paris, France, pp. 2689-2693, ISBN: 978-1-4799-5750-7	Punctaj 6.66 (Google Scholar/alte BDI)	-	23	177.93

20/nr de autori	<p>2. Corina Nafornta, Alexandru Isar, Wavelet Based Contrast Enhancement for Still Images, 11th International Symposium on Electronics and Telecommunications (ISETC), 2014, 14-15 Nov. 2014, Timisoara, Romania, pp. 265-268, ISBN 978-1-4799-7266-1</p>	<p>Punctaj 10 (Google Scholar/afte BDI)</p>			
	<p>3. Adrian Macaveiu, Corina Nafornta, Alexandru Isar, Andrei Campeanu, Ioan Nafornta, A Method for Building the Range-Doppler Map for Multiple Automotive Radar Targets, 11th International Symposium on Electronics and Telecommunications (ISETC), 2014, 14-15 Nov. 2014, Timisoara, Romania, pp. 151-156, ISBN 978-1-4799-7266-1</p>	<p>Punctaj 4 (Google Scholar/afte BDI)</p>			
	<p>4. Arvinti-Costache B., Costache M., Stolz, R., Nafornta Corina, Isar A., Toepfer H A wavelet based baseline drift correction method for fetal magnetocardiograms New Circuits and Systems Conference (NEWCAS), 2011 IEEE 9th International IEEE Explore 2011 June 978-1-61284-135-9 109 – 112</p>	<p>(SCOPUS 6) punctaj 3.33</p>			
	<p>5. Firoiu Ioana, Nafornta Corina, Isar Dorina, Boucher Jean-Marc, Isar Alexandru, An asymptotic statistical analysis of the Hyperanalytic Wavelet Transform 5th European Conference on Circuits and Systems for Communications (ECCSC), Belgrade, Serbia IEEE Explore 2010 November 978-1-61284-400-8,</p>	<p>(SCOPUS 10) punctaj 4</p>			
	<p>6. Rothenstein, B., Damian, I. and Nafornta, C., Relativistic Doppler effect free of "plane wave" and "very high" frequency assumptions: Apeiron 2005, (2005). "Relativistic Doppler effect free of "plane wave" and "very high" frequency assumptions", Apeiron, vol. 12, no. 1, pp. 122-135</p>	<p>(SCOPUS 23), punctaj 6.66</p>			
	<p>7. Nafornta Corina, Monica Borda Multiple Embedding in Wavelet Subbands for Robust Image Watermarking Proc. of IEEE International Workshop on Spectral Methods and Multirate Signal Processing, SMMSP 2005, 20-22 June 2005, Riga, Latvia, ISBN: 952-15-1366-7, pp. 135-140 2005 June ISBN: 952-15-1366-7</p>	<p>punctaj 10 (Google Scholar/afte BDI)</p>			
	<p>8. Bernhard Rothenstein, Nafornta Corina Red Shift and Blue Shift: A realistic approach PHYSICAL INTERPRETATIONS OF RELATIVITY THEORY-IX, Proceedings, Imperial College, London, 3 – 6 September 2004, vol.2, pp. 478-483, ISBN 1 873 694 09 1, 2005 2004 Sept. ISBN 1 873 694 09 1</p>	<p>punctaj 10 (Google Scholar/afte BDI)</p>			

	<p>9. Bernhard Rothenstein, Naornita Corina Software for Relativity Optics PHYSICAL INTERPRETATIONS OF RELATIVITY THEORY-IX, Proceedings, Imperial College, London, 3 – 6 September 2004, vol.2 published in 2005, pp. 484-496, ISBN 1 873 694 09 1. 2004 Sept. ISBN 1 873 694 09 1</p>	<p>. punctaj 10 (Google Scholar/ale BDI)</p>			
	<p>10. Naornita Corina, Monica Borda, Amadou Kane A Wavelet-Based Digital Watermarking using Subband-Adaptive Thresholding for Still Images microCAD 2004 International Scientific Conference, University of Miskolc, 18-19 March 2004, pp.87-922004 March ISBN 963-661-615-9</p>	<p>punctaj 6.66 (Google Scholar/ale BDI)</p>			
	<p>11. Naornita Corina, Alexandru Isar, Watermarking Based on the Hyperanalytic Wavelet Transform Acta Technica Napocensis-Electronics and Telecommunications B 2008 Vol. 49, nr. 3 pp. 19-26</p>	<p>punctaj 10 (Google Scholar/ale BDI)</p>			
	<p>12. Naornita Corina, Alexandru Isar, Monica Borda Pixel-wise masking for watermarking using local standard deviation and wavelet compression Scientific Bulletin of Politehnica Univ. of Timisoara, Trans. on Electronics and Telecommunications, ISSN 1583-3380, Int. Symposium of Electronics and Telecommunications, Sept. 21-23, 2006, Timisoara, Romania B 2006 tom 51(65), fasc.2, pp. 146-151</p>	<p>punctaj 6.66 (Google Scholar/ale BDI)</p>			
	<p>13. Bernhard Rothenstein, Naornita Corina Three levels of understanding physical relativity: Galileo's relativity, Up-to-date Galileo's relativity and Einstein's relativity: A historical survey. Scientific Bulletin of Politehnica Univ. Of Timisoara, Trans. on Mathematics and Physics, 2004,49(63), 2, pp.60-69, 2004 , 49(63) 60-69</p>	<p>punctaj 10 (Google Scholar/ale BDI)</p>			
	<p>14. Naornita Ioan, Naornita Corina, Alexandru Isar, Monica Borda, Perceptual watermarks in the wavelet domain Communications 2008, Bucharest, Romania, June 5-7, Workshop "New Technologies and Trends in IT and Communications", pp.19-28, ISBN 978-606-521-008-0, 2008, 5-7 June, ISBN 978-606-521-008-0, 19-28,</p>	<p>punctaj 5 (Google Scholar/ale BDI)</p>			
	<p>15. Isar A, Moga S, Naornita Corina, M. Oltean, I. Adam Image Denoising Using Wavelet Transforms With Enhanced Diversity Proc. International Conference Communications 2006, Bucharest, June, 3-4, 2006, ISBN(10) 973-718-496-3, ISBN(13) 978-973-718-496-2, pp.161-164. 2006 June 3-4 ISBN(10) 973-718-496-3, ISBN(13) 978-973-718-496-2 161-164</p>	<p>punctaj 5 (Google Scholar/ale BDI)</p>			

	<p>16. Elena Lupea, Naornita Corina, Miranda Naornita Capacity of Frequency Selective Channels. Part I. Time Invariant Channels Proceedings of International Workshop "Trends and Recent Achievements in Information Technology", May 16-18, 2002, Cluj-Napoca 2002 May ISBN 973-8335-49-3</p>	<p>punctaj 6.66 (Google Scholar/alt BDI)</p>			
	<p>17. Elena Lupea, Naornita Corina, Miranda Naornita Capacity of Frequency Selective Channels. Part II. Time-Variable Channels Proceedings of International Workshop "Trends and Recent Achievements in Information Technology", May 16-18, 2002, Cluj-Napoca 2002 May ISBN 973-8335-49-3</p>	<p>punctaj 6.66 (Google Scholar/alt BDI)</p>			
	<p>18. Victor Cuteanu, Alexandru Isar, Naornita Corina, PAPR Reduction of OFDM Signals Using Multiple Symbol Representations -Clipping Hybrid Scheme, SPAMEC 2011, Cluj-Napoca</p>	<p>punctaj 6.66 (EURASIP)</p>			
	<p>19. Victor Cuteanu, Alexandru Isar, Naornita Corina PAPR Reduction of OFDM Signals using Sequential Tone Reservation - Clipping Hybrid Scheme SPAMEC 2011, Cluj-Napoca</p>	<p>punctaj 6.66 (EURASIP)</p>			
	<p>20. Dorina Isar, Alexandru Isar, Naornita Corina, Building Riesz Bases with the Aid of Low-Pass Filters SPAMEC 2011, Cluj-Napoca 2011</p>	<p>punctaj 6.66 (EURASIP)</p>			
	<p>21. Corina Naornita, "A Wavelet-Based Watermarking for Still Images", Scientific Bulletin of Politehnica University of Timisoara, Trans. on Electronics and Telecommunications, 49(63), 2, 2004, special number dedicated to the Proc. of Symposium of Electronics and Telecommunications ETc 2004, 22 - 23 October 2004, Timisoara, pp. 126-131</p>	<p>punctaj 20 (Google Scholar/alt BDI)</p>			
	<p>22. Janos Gal, Corina Naornita, Andrei Campeanu, "Lowpass Active Filter Synthesis Based on Mesh Current Emulation of LC Ladder Structures", Scientific Bulletin of Politehnica University of Timisoara, Trans. on Electronics and Telecommunications, ISSN 1583-3380, tom 49(63), 1, 2004, number dedicated to the Proc. of Symposium of Electronics and Telecommunications ETc 2004, 22-23 Oct. 2004, Timisoara, pp 164-167.</p>	<p>punctaj 6.66 (Google Scholar/alt BDI)</p>			

		23. Corina Nafornita , Alexandru Isar, "Digital Watermarking of Still Images using the Discrete Wavelet Transform" Scientific Bulletin of Politehnica University of Timisoara, Trans. on Electronics and Telecommunications, 48 (62), 1, ISSN 1583-3380, 2003, pp. 73-78	punctaj 10 (Google Scholar/ale BDI)			
A2.4 Granturi / proiecte castigate prin competitie	A2.4.1.1 Internationale-director/responsabil 20*ani de desfasurare	1. Nafornita Corina , Isar Alexandru, Nafornita Ioana, Berthoumieu Yannick, Turcu Flavius, Turcu Ioana Classification de textures fondée sur la theorie des ondelettes hyper-analytiques et les copules 510/31.03.2011 2011-2012 3,076 Eur/an ANCS/EGIDE,	punctaj 40	2	2	40
	A2.4.1.2 nationale-director/responsabil 10*ani	1. Nafornita Corina , "Marcarea transparenta a imaginilor in domeniul transformatorilor", CNCSIS grant TD, cod CNCSIS 47 2004-2006 14,000 RON,	punctaj 30			30
	A.2.4.2.1 internationale-membru in echipa 4*ani	1. Nafornita Ioana , Isar Alexandru, Campeanu Andrei, Nafornita Corina , ARTRAC, Advanced Radar Tracking and Classification for Enhanced Road Safety, Program FP7, No. 284740/2011 – 120.183 €, 2011-2014, punctaj 12	Punctaj 12	--	3	20
		2. Nafornita Ioana , Isar Alexandru, Campeanu Andrei, Nafornita Corina , Quality of Services Improvement for GNSS Localisation in Constraint Environment by Image Fusing Techniques (IMFUSING), Contract cu Agentia Spatiale Europeana, ESA, nr. 4000111852/14/NL/Cbi, contractor UPT, subcontractor Thales Alenia (2014)	Punctaj 4			
		3. Isar Alexandru , Nafornita Corina , SEOM SY4Sci Synergy - Ocean Virtual Laboratory (OVL), Contract cu Agentia Spatiale Europeana, ESA, nr. 4000112389/14/I-NB, contractor OceanDataLab, subcontractor UPT	Punctaj 4			
	A.2.4.2.2 nationale-membru in echipa 2*ani	1. Nafornita Ioana , Isar Alexandru, Campeanu Andrei, Nafornita Corina , Program PC7 de co-finantare a programului FP7 Advanced Radar Tracking and Classification for Enhanced Road Safety ARTRAC finantat de UEFISCDI contract 223EU/24.07.2013 –178.996,74 lei, 2013-2014, punctaj 4	Punctaj 4		6	32
		2. Isar Alexandru , Nafornita Miranda, Campeanu Andrei, Isar Dorina, Balint Cornel, Balta Horia, Lucaciu Radu, Vesa Andy, Nafornita Corina , Popovici Virgil, Cresterea performantelor receptoarelor numerice folosind teoria functiilor wavelet, CNCSIS, 637/A/CNCSIS, 2005-2007, 48000 RON,	punctaj 6			
		3. Nafornita Ioana , Isar Alexandru, ... Nafornita C. , si altii, Intarirea bazei materiale de cercetare-dezvoltare in domeniul comunicatiilor	punctaj 6			

		la Facultatea de Electronica si Telecomunicatii a Universitatii Politehnica din Timisoara ANCS, tip CAPACITATI PN II, 2007-2009, 77/CP/II/13.09.2007, 1937880 RON				
		4. Isar Alexandru, Naornita Ioan, Moga Sorin, Naornita Corina , Firoiu Ioana, Stolojescu Cristina, Utilizarea teoriei functiilor wavelet la luarea deciziilor, CNCSIS, ID 930, 2009-2011, 661548 RON,	punctaj 6			
		5. M. Borda, R. Terebes, S. Pop, C. Iovan, Naornita Corina , R. Malutan, Metode moderne in analiza si prelucrarea imaginilor 2004-2006, 146618 RON, CNCSIS	punctaj 6			
		6. Membru al grupului tinta, POSDRU 21/1.5/G/13798 "Scoala doctorala in sprijinul cercetarii in context european" 2010-2012	punctaj 4			
Total puncte A.2 (minim 250puncte)						613.44

Tabelul 3. Recunoasterea si impactul activitatii (A3)

Recunoasterea si impactul activitatii (A3)		Realizări	Punctaj/ realizare	Număr impus de Realizări (A3.1.1+A3.1.2)	Număr de realizări ale candidatului (A3.1.1+A3.1.1.2)	Număr puncte
A3.1 Citări in carti, reviste si volume ale unor manifestari Stiintifice	A3.1.1 Carti, ISI	I) Bayesian Hyperanalytic Denoising of SONAR Images Author(s): Firoiu Ioana, Naornita Corina, Isar Dorina, Isar Alexandru Source: IEEE GEOSCIENCE AND REMOTE SENSING LETTERS Volume: 8 Issue: 6 Pages: 1065-1069 DOI: 10.1109/LGRS.2011.2155617 Published: NOV 2011, 1. Coregistration of terrestrial lidar points by adaptive scale-invariant feature transformation with constrained geometry Author(s): Eo, Yang Dam; Pyeon, Mu Wook; Kim, Sun Woong; et al. Source: AUTOMATION IN CONSTRUCTION Volume: 25 Pages: 49-58 DOI: 10.1016/j.autcon.2012.04.011 Published: AUG 2012; punctaj 2	punctaj 2	20	23 ISI +28 BDI = 51	105.95
	8/nr de autori articol citat					

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	<p>II) Title: Image Denoising Using a New Implementation of the Hyperanalytic Wavelet Transform Author(s): Ioana Firoiu, Naornita Corina, Jean-Marc Boucher, Alexandru Isar Source: IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT Volume: 58 Issue: 8 Pages: 2410-2416 DOI: 10.1109/TIM.2009.2016382 Published: AUG 2009</p> <p>3. Title: Signal Denoising With Random Refined Orthogonal Matching Pursuit Author(s): Li, Shutao; Fang, Leyuan Source: IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT Volume: 61 Issue: 1 Pages: 26-34 DOI: 10.1109/TIM.2011.2157547 JAN 2012 ; punctaj 2</p>	punctaj 2			
	<p>4. Adamo F., Andria G., Attivissimo F., Lanzolla A.M.L., Spadavecchia M. , A comparative study on mother wavelet selection in ultrasound image denoising, Measurement: Journal of the International Measurement Confederation, 46 (8), pp. 2447-2456, 2013 46(8), 2447-2456</p>	punctaj 2			
	<p>5. Andria, G.; Attivissimo, F.; Lanzolla, A.M.L.; Savino, M. A Suitable Threshold for Speckle Reduction in Ultrasound Images, Instrumentation and Measurement, IEEE Trans., 2270 - 2279 Vol 62, 8, Aug. 2013, 2013, 62(8), 2270</p>	punctaj 2			
	<p>III) Title: Improved detection for robust image watermarking Author(s): Naornita, C Book Group Author(s): IEEE Conference: 7th International Symposium on Signals, Circuits and Systems (ISSCS 2005) Location: Iasi, ROMANIA Date: JUL 14-15, 2005 Source: ISSCS 2005: International Symposium on</p>	punctaj 8			

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		<p>7. Wen, X.-B., Zhang, H., Xu, X.-Q., Quan, J.-J. A new watermarking approach based on probabilistic neural network in wavelet domain, 2009, Soft Computing 13 (4) , pp.2 355-360</p>	punctaj 8			
		<p>8. Kezheng, L., Bo, F., Wei, Y. ,"Robust audio watermarking scheme based on wavelet transforming stable feature", 2008, International Conference on Computational Intelligence and Security, CIS 2008 2 , art. no. 4724790 , pp. 325-329</p>	punctaj 8			
		<p>9. Xu, X.-Q., Wen, X.-B., Li, Y.-Q., Quan, J.-J., A new watermarking approach based on neural network in wavelet domain , 2007 Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) 4682 LNAI , pp. 1-6</p>	punctaj 8			
		<p>IV) A new pixel-wise mask for watermarking, Author(s): NAFORNITA C Source: P ACM MULT SEC MM SE Pages: 221 DOI: 10.1145/1288869.1288901 Published: 2007</p> <p>10. Stankovic, Srdjan; Orovic, Irena; Chabert, Marie; et al., Image watermarking based on the space/spatial-frequency analysis and Hermite functions expansion JOURNAL OF ELECTRONIC IMAGING Volume: 22 Issue: 1 Article Number: 013014 DOI: 10.1117/1.JEI.22.1.013014, JAN-MAR 2013 punctaj 8</p>	punctaj 8			

	<p>11. An, Lingling; Gao, Xinbo; Li, Xuelong; et al., Robust Reversible Watermarking via Clustering and Enhanced Pixel-Wise Masking, IEEE TRANSACTIONS ON IMAGE PROCESSING Volume: 21 Issue: 8 Pages: 3598-3611 DOI: 10.1109/TIP.2012.2191564 Published: AUG 2012, punctaj 8</p>	punctaj 8			
	<p>V) Nafornta C., Isar A., Borda M., Improved pixel-wise masking for image watermarking (2006) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 4105 LNCS , pp. 90-97.</p> <p>12 Li, Xiao Wei; Kim, Seok Tae, An improved cellular automata-based digital image watermarking scheme combining the use of pixel-wise masking and 3D integral imaging, OPTICS COMMUNICATIONS Volume: 319 Pages: 45-55</p>	2.66			
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	<p>VI) Nafornta C., Robustness evaluation of perceptual watermarks (2007) ISSCS 2007 - International Symposium on Signals, Circuits and Systems, Proceedings, 2 , art. no. 4292744 , pp. 389-392.</p> <p>15 Sun, J., Men, C., Cao, L., Digital watermarking appraisalment based on certainty factor 2009 IEEE International Conference on Mechatronics and Automation, ICMA 2009 , art. no. 5245974</p>	8			
	<p>16 Liu, S., Liu, Z., Huang, H. , Wavelet-based watermarking through pixel-wise masking using a novel</p>	8			

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		VIII) Nafornta C., Isar A., Borda M., Image watermarking based on the discrete wavelet transform statistical characteristics (2005) EUROCON 2005 - The International Conference on Computer as a Tool, II , art. no. 1630102 , pp. 943-946. 18 Tseng HW (Tseng, Hsien-Wen), Hsieh CP (Hsieh, Chi-Pin), A zero-watermark scheme based on self reference, Int. MultiConference of Engineers and Computer Scientists (IMECS 2007), Hong Kong, March 21-23, 2007 Lecture Notes in Engineering and Computer Science	2.66			
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	<p>SCOPUS // Firoiu I., Nafornta C., Boucher J.-M., Isar A., Image denoising using a new implementation of the hyperanalytic wavelet transform (2009) IEEE Transactions on Instrumentation and Measurement, 58 (8) , pp. 2410-2416.</p> <p>2. Reddy, D.S.; Varadarajan, S.; Giriprasad, M.N.; Sadasiva, A novel approach to image denoising using Diversity Enhanced Wavelet Transforms, Advanced Computing Technologies (ICACT), 2013 15th International Conference on, On page(s): 1 - 5</p>	Punctaj 1			
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	<p>6. Chen, J.-J., Tian, F.-C., Qiu, Y., Li, X.-L. Multi-scale and multi-orientation features for image de-noising, 2010, Chongqing Daxue Xuebao/Journal of Chongqing University 33 (8) , pp. 23-28</p>	punctaj 1			

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	<p>Citari alte BDI</p> <p>Corina Nafornta, Y. Berthoumieu, I. Nafornta, A. Isar, Kullback-Leibler distance between complex generalized Gaussian distributions, 20th European IEEE Signal Processing Conference (EUSIPCO), Bucharest, Aug. 2012, pp 1850-1854</p> <p>18. K Zheng, M Yu, X Jin, G Jiang, Z Peng, F Shao, New reduced-reference objective stereo image quality assessment model based on human visual system, 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video (3DTV-CON), 2014 , IEEE Explore</p>	Punctaj 1			
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A3.2 Prezentari invitate in plenul unor manifestari stiintifice nationale si international si Profesor invitat	A3.2.1 Internationale 10	1. Universite Bordeaux I, Franta, 1sep 2009-30 nov 2009, Profesor Invitat	10	--	2	20
		2. ENSEIRB, Bordeaux, Franta, 1 april – 30 Iunie 2011, Cercetator invitat	10			
A3.3 Membru in colectivele de redactie sau comitete stiintifice al revistelor, organizator de manifestari stiintifice, international indexate ISI	A3.3.1 ISI 10 puncte	1) Recenzor ICASSP 2014, IEEE International Conference on Acoustics, Speech, and Signal Processing, May 4-9, 2014 - Florence, Italy	10	--	20	200
		2) – Membru TPC, 21st European Signal Processing Conference, EUSIPCO 2013, Marrakech, Morocco, 9-13 September 2013				
		3) 2013 – Recenzor ISSCS 2013	10			
		4) 2012 – Membru TPC, EUSIPCO 2012	10			
		5) 2012 – Publication Chair, ISETC 2012	10			
		6) Membru in comitetul de organizare ISETC 2010, Timisoara, Romania	10			
		7) Recenzor Statistical Signal Processing Workshop, SSP 2011, Nice	10			
		8) Recenzor ISSCS 2007	10			
		9) Recenzor OPTIM 2012	10			
		10) Reviewer IEEE Trans. on Information Forensics & Security 2006	10			
		11) Reviewer IEEE Trans. on Multimedia 2007-2008, 2011-2012	10			
		12) Reviewer IEEE Trans. on Signal Processing 2009-2010	10			
		13) Reviewer IEEE Trans. on Image Processing 2010-2011, 2013	10			
		14) Reviewer EURASIP Journal on Information Security 2007-2008	10			
		15) Reviewer IET Information Security 2007-2010	10			
		16) Reviewer Research Letters in Electronics, Elsevier 2008	10			

		17) Reviewer Journal of Systems and Software, Elsevier 2008	10			
		18) Reviewer Signal Processing, Elsevier 2008-2013	10			
		19) Reviewer IET Radar, Sonar & Navigation 2013	10			
		20) Reviewer Physical Communication 2013	10			
	A3.3.2 BDI 6 puncte	1) Membru TPC, 22nd European Signal Processing Conference, EUSIPCO 2014, September 1-5, 2014, Lisbon, Portugal	6		7	42
		2) 2014 – Publication Chair, ISETC 2014	6			
		3) Recenzor ISCAS 2014 IEEE International Symposium on Circuits and Systems, 1-5 June 2014, Melbourne, Australia	6			
		4) Membru TPC EUNICE 2012	6			
		5) Membru TPC WIFS 2012	6			
		6) Reviewer ICIST 2012, 2nd IEEE International Conference on Information Science and Technology, ICIST 2012, 23- 25 May 2012, Wuhan, China	6			
		7) 2006-prezent – secretar stiintific, Scientific Bulletin of "Politehnica" University of Timisoara, Trans. Electronics and Communications. Corespondenta cu autorii, recenzori, web, publicitate.	6			
	A.3.3.3 nationale, internationale neindexate 3 puncte	2004, 2006, 2008, 2010 - Membru in comitetul de organizare ISETC – Int. Symp. of Electronics & Telecommunications, Politehnica University of Timisoara.	12		4	12
Total puncte A.3 (minim 50puncte)						438.95

Factor de impact cumulate pentru publicatii

	Punctaj/ realizare	Număr impus de realizări	Număr de realizări ale candidatului	Număr puncte
Factor de impact cumulate pentru publicatii	-----	Min. 6 puncte	-----	10.406

19 ISI Proceedings * 0,25 + 1.495(DSP)+ 0.642(AECE) + 1.710 (Trans. Instrum.Measurement) + 1.809(Geoscience & Remote Sensing)

2. Indicator de merit: $A=A1+A2+A3 = 210 + 613.44 + 438.95 = 1262.39$ (min 700)

Formula de calcul a indicatorului de merit ($A = A1+A2+A3$): $A = \sum_i k_{1i} + \sum_i k_{2i} + \sum_i k_{3i}$, unde: k_{pi} – indice specific tipului si categoriei de activitate (conform tabelului anterior).

3. Condiții minimale (A_i)

Nr. crt.	Domeniul de activitate	Conditii	Realizat	Îndeplinirea standardelor minimale nationale	
				DA	NU
A.1	Activitatea didactică / profesională (A1)	Profesor - Minim 100 puncte Conferențiar - Minim 50 puncte	210	X	
A.2	Activitatea de cercetare (A2)	Profesor - Minim 500 puncte Conferențiar - Minim 250 puncte	613.44	X	
A.3	Recunoașterea impactului activității (A3)	Profesor - Minim 100 puncte Conferențiar - Minim 50 puncte	438.95	X	
TOTAL (A)		Profesor - Minim 700 puncte Conferențiar - Minim 350 puncte	1262.39	X	

4. Condiții minimale obligatorii pe subcategorii

Nr. crt.	Subcategoria	Conditii	Realizat	Îndeplinirea standardelor minimale nationale	
				DA	NU
A.1.1.1-A.1.1.2	Carti si capitole în carti de specialitate in edituri recunoscute	Profesor - 4 carti/capitole Conferențiar - 2 carti/capitole	6	X	
A.1.2.1-A.1.2.2	Material didactic / Lucrari didactice	Profesor - Minim 2 Conferențiar - Minim 1	8	X	
A.2.1	Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISIproceedings	Profesor - Minim 12 Conferențiar - Minim 6	24	X	
A.2.4.1	Granturi/proiecte castigate prin	Profesor - Minim 2	2	X	

	competitie (Director/responsabil)	Conferențiar - Minim 1			
A.3.1.1-A.3.1.2	Numar de citări in carti, reviste si volume ale unor manifestari stiintifice ISI sau BDI	Profesor - Minim 20 Conferențiar - Minim 10	51	X	
	Factor de impact cumulat pentru publicatii	Profesor - Minim 6 Conferențiar - Minim 3	10.406	X	

Nota:

- Comisia de concurs va aprecia indeplinirea conditiilor minimale obligatorii pe subcategorii privind calitatea si relevanta acestora pentru postul in concurs
- Bazele de date internationale (BDI) cu ISBN/ISSN luate in considerare pentru articolele publicate in reviste si publicate in volumele unor manifestari stiintifice, cu exceptia articolelor publicate in reviste cotate ISI, sunt cele recunoscute pe plan stiintific internationale precum (nelimitativ): SCOPUS, IEEE Xplore, Science Direct, Elsevier, Wiley, ACM, DBLP, Springerlink, Engineering Village, Cabi, Emerald, CSA, Compendex, INSPEC, Google Scholar.
- Nu se considera ca profesor invitat activitatile in cadrul ERASMUS
- Se exclud autocitările
- Factorul de impact pentru publicatii se calculeaza prin insumarea factorilor de impact al revistelor cotate, pentru brevete se considera factor de impact echivalent 0,5 iar pentru volumele manifestarilor ISI se considera factorul de impact echivalent 0,25.

Confirm prin prezenta că datele mai sus menționate sunt reale și se referă la propria mea activitate profesională și științifică.

Verificat:

Data 14.01.2015

Președintele comisiei _____

Membrii comisiei _____

Candidat NAFORNIȚĂ CORINA-ALDA

