

Anexa 1 - Total - Ignat Anca

Total activitate de cercetare (70%)	1419.84
Total activitate de didactică (30%)	90
Total	1020.89

Anexa 1 - Activitatea de cercetare - Ignat Anca

Activitatea de cercetare (70%)

Articole științifice publicate in extenso în reviste cotate Web of Science cu factor de impact

		Punctaj	Factor impact	Nr. autori
1	A.Ignat - <i>Aproximation of H_∞-control problem in Hilbert spaces</i> , Numer. Funct. Anal. And Optimiz., 18(5-6),1997, 591-608.	77.98	0.883	1
2	A.Ignat , J.Sprekels, D.Tiba - <i>Analysis and Optimization of Nonsmooth Arches</i> , SIAM J. Control. Optim., Vol. 40, Nr. 4, 2001, 1107-1133.	53.713333	2.269	3
3	A.Ignat , J.Sprekels, D.Tiba - <i>A model of a general elastic curved rod</i> , Math. Meth. Appl. Sci., 25,2002, 835-854.	31.313333	1.149	3

Articole științifice publicate in extenso în reviste indexate BDI

		Punctaj	Nr. autori
1	A.Ignat - <i>Calcul symbolique pour l'obtention des solutions exactes de l'equation de Ginzburg-Landau</i> , An. St. University "Al.I.Cuza" Iași, Tom II, 1993, Informatica, 109-120.	15	1
2	A.Ignat - <i>Approximating algebraic Riccati eqautions in infinite dimensions</i> , Review d'Analyse Numerique et la Theorie de l'Approximation, Cluj, Romania, 1995, 147-157.	15	1
3	A.Ignat , <i>Inpainting with Fokker-Planck equation</i> , acceptată spre publicare în Proceedings of the Romanian Academy, Series A	0	1

Anexa 1 - Activitatea de cercetare - Ignat Anca

Articole științifice publicate in extenso în volumele conferințelor

Indexate ISI

		Punctaj	Nr. autori
1	P.Gahinet, A.Ignat - Low-order H^∞ synthesis via LMIs, Proc. American Control Conference, Baltimore, Maryland, 1994, 1499-1500.	15	2
2	M.Costin, A.Ignat , O.Baltag, S.Bejinariu, C.Ștefănescu, F.Rotaru, D.Costandache - <i>3D Breast Shape Reconstruction for a Non-Invasive Early Breast Cancer System</i> , SOFA 2007, 2nd IEEE Internat. Workshop on Soft Computing Applications, Gyula, Hungary - Oradea, Romania, 21-23 August 2007.	4.2857143	7
3	A.Ignat , M.Luca, A.Ciobanu - <i>Iris Features using Dual Tree Complex Wavelet Transform in Texture Evaluation for Biometrical Identification</i> , E-Health and Bioengineering Conference (EHB), Iași, November 21-23, 2013.	10	3
4	A.Ignat , M.Luca - <i>Rotation Invariant Texture Retrieval Using Dual Tree Complex Wavelet Transform</i> , 6-th International Workshop on Soft Computing, SOFA 2014, Timișoara, Romania, July 24-26, 2014, <i>Soft Computing Applications</i> . Springer International Publishing, 2016. 903-911.	15	2
5	F.Rotaru, S.I.Bejinariu, C.D.Niță, R.Luca, M.Luca, A.Ignat - <i>Optic Disc Recognition Method for Retinal Images</i> , 6-th International Workshop on Soft Computing, SOFA 2014, Timișoara, Romania, July 24-26, 2014, <i>Soft Computing Applications</i> , Springer International Publishing, 2016, 875-889.	5	6
6	A.Ignat , M.Luca, A. Ciobanu - <i>New Method of Iris Recognition using Dual Tree Complex Wavelet Transform</i> , 6-th International Workshop on Soft Computing, SOFA 2014, Timisoara, Romania, July 24-26, 2014, <i>Soft Computing Applications</i> , Springer International Publishing, 2016. 851-862.	10	3

Anexa 1 - Activitatea de cercetare - Ignat Anca

7	A. Ignat - <i>Combining Features for Texture Analysis</i> , Proceedings Part II of 16-th International Conference CAIP2015, Valletta, Malta, September 2-4, 2015 (G. Azzopardi, N. Petkov eds.), LNCS 9257, pp. 220-229	30	1
8	A. Ignat , M.Coman - <i>Gender Recognition with Gabor Filters</i> , E-Health and Bioengineering Conference (EHB), Iași, Romania, 19-21 November, 2015	15	2
9	V.Dima, A. Ignat , C.Rusu - <i>Identifying Down Syndrome Cases by Combined Use of Face Recognition Methods</i> , 7-th International Workshop on Soft Computing, SOFA 2016, Arad, Romania, August 24-26, 2016.	10	3
10	A. Ignat , M.Luca - <i>Tips on Texture Evaluation with Dual Tree Complex Wavelet Transform</i> , 7-th International Workshop on Soft Computing, SOFA 2016, Arad, Romania, August 24-26, 2016.	15	2
11	I.Păvăloi, A. Ignat - <i>Iris Recognition using Color and Texture Features</i> , 7-th International Workshop on Soft Computing, SOFA 2016, Arad, Romania, August 24-26, 2016.	15	2
12	A. Ignat , B. Aciobăniței - <i>Handwritten digit recognition using rotations</i> , 18-th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2016, Timișoara, Romania, September 24-27, 2016.	15	2
13	I.Păvăloi, A. Ignat - <i>Iris Recognition using Statistics on Pixel Position</i> , IEEE Intl. Conference on E-Health and Bioengineering Conference (EHB), Sinaia, Romania, 22-24 June, 2017.	15	2

Anexa 1 - Activitatea de cercetare - Ignat Anca

Indexate BDI

		Punctaj	Nr. autori
1	A. Ignat , A. Vasiliu - <i>A study of some fast inpainting methods with application to iris reconstruction</i> , 22nd International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, Belgrade, Serbia, 3-5 September 2018.	7.5	2
2	I.Păvăloi, A.Ignat - <i>Experiments on Iris Recognition using Partially Occluded Images</i> , 8-th International Workshop on Soft Computing, SOFA 2018, Arad, Romania, 13-15 September.	7.5	2
3	M.Costin, A.Ignat - <i>Pitfalls in Using Dual Tree Complex Wavelet Transform for Texture Featuring: a Discussion</i> , 2011 IEEE 7th International Symposium on Intelligent Signal Processing (WISP) Proceedings, September 19-21, Malta, 110-115.	7.5	2
4	I.Păvăloi, A.Ciobanu, M.Luca, E.Musca, T.Barbu, A.Ignat - <i>A Study on Automatic Recognition of Positive and Negative Emotions in Speech</i> , Proceedings of the 18th International Conference on System Theory, Control and Computing (ICSTCC 2014), Sinaia, Romania, October 17-19, 2014, pp. 221-224.	2.5	6
5	M. Luca, A. Ciobanu, S.-I. Bejinariu, A. Ignat , C. T. Teodorescu-Soare, G. Stoian, D. Luca - <i>Automatic Evaluation of Surface Nanostructuring Using Image Processing</i> , In: Luca D., Sirghi L., Costin C. (eds) Recent Advances in Technology Research and Education. INTER-ACADEMIA 2017. Advances in Intelligent Systems and Computing, vol 660. Springer, pp 110-119.	2.1428571	7
6	I.Păvăloi, A.Ignat - <i>Experiments on phonetic transcription of audio vowels</i> , 8-th International Workshop on Soft Computing, SOFA 2018, Arad, Romania, 13-15 September	7.5	2
7	I.Păvăloi, A.Ignat - <i>A Simple Global Color Criterion for Image Retrieval</i> , 13 th Int. Conference on DEVELOPMENT AND APPLICATION SYSTEMS, DAS 2016, Suceava, Romania, May 19-21, 2016.	7.5	2

Anexa 1 - Activitatea de cercetare - Ignat Anca

Alte categorii

		Punctaj	Nr. autori
1	O.Baltag, M.Costin, A.Ignat , C.Ștefănescu, F.Rotaru - <i>Epipolar Geometry in a Non-Invasive Breast Cancer Diagnosis System</i> , SACCS 2007, 9th Internat. Symp. On Automatic Control and Computer Science, Iași, 16-18 Nov., 2007.	1	5
2	L.Ciortuz, A.Ignat - <i>CHALLENGER - The First Romanian Automate Translation System from English into Romanian</i> , International Conference on Development and Application Systems, Suceava, Romania, 26-28 May, 1994, 173-174	2.5	2
3	E. Bârsan, A.Ignat - <i>Impact of failures from water distribution networks on booster disinfection</i> , Computational Civil Engineering 2005, International Symposium Iași, Romania, May 27, 2005	2.5	2
4	E. Bârsan, A.Ignat - <i>Optimization of Booster Disinfection in Water Distribution Systems</i> , Computational Civil Engineering 2005, International Symposium Iași, Romania, May 27, 2005	2.5	2

Cărți științifice publicate

		Punctaj	Nr pagini	Nr autori
1	E. Bârsan, A.Ignat - <i>Modelarea calității apei în sistemele de distribuție</i> , Ed. Performatica, Iași 2005	14.7	147	2
2	A. Ignat - <i>Calcul Numeric</i> , curs invatamant la distanta, Ed. Univ. "Alexandru Ioan Cuza", Iasi, ISSN -1221:9363	40	200	1

Anexa 1 - Activitatea de cercetare - Ignat Anca

Contracte de cercetare științifică în institutii academice

		Punctaj	Buget	Nr persoane
1	PrivateSky – Experimental Development in Private-Public Partnerships for the creation of Autochthone Cloud Based Platforms with Advanced Data Protection Characteristics, Operational Program: Competitiveness 2014-2020, Priority Axis 1, Action 1.2.3, Project type: Partnership for Knowledge Transfer, Contract nr. 13/01.09.2016, SMIS 106611, ID P_40_371; Budget: 15.266.417,50 RON; Project co-funded by the European Regional Development Fund (2016-2021)	101.77612	15266417.50	15
2	Sistem de monitorizare si asistenta pentru persoanele cu nevoi speciale (SIMAPS), Programul Operational Sectorial „ Cresterea Competitivitatii Economice , POSCCE, Nr. 104/17.11.2014 Budget: 151200 RON, 2015	3.78	151200	4

Citări și recenzii ale lucrărilor științifice

P.Gahinet, A.Ignat - *Low-order H_{∞} synthesis via LMIs*, Proc. American Control Conference, Baltimore, Maryland, 1994, 1499-1500.

Citată în

		Punctaj	FI	Nr. autori
1	Du, C., Xie, L., Soh, YC. (2001) “ H_{∞} Reduced Order Approximation of 2-D Digital Filters”, IEEE Transactions on Circuits and Systems-I. 48: pp. 688-698	33.23	2.823	2
2	J. K. Shiau, G. N. Taranto, J. H. Chow, and G. Boukarim, “Power swing damping controller design using an iterative linear matrix inequality algorithm,” IEEE Trans. Contr. Syst. Technol., vol. 7, no. 3, pp. 371–381, 1999.	53.83	4.883	2
3	Pang-Chia Chen, Koan-Yuh Chang, Yaug-Fea Jeng, Wen-Jer Chang, The study on the convex and LMI conditions for static output feedback stabilization, Journal of Marine Science and Technology, Vol. 12, No. 3, pp. 171-174 (2004) 171	16.19	1.119	2
4	Poncela, A., Casado, C., Baeyens, E. and Perán, J. R. (2005), Design of devices for protecting civil structures using fixed-order \mathcal{H}_{∞} control. Struct. Control Health Monit., 14: 239–260.	41.22	3.622	2

Anexa 1 - Activitatea de cercetare - Ignat Anca

5	Simfukwe, Dumisani D., and Bikash C. Pal. "Robust and low order power oscillation damper design through polynomial control." Power Systems, IEEE Transactions on 28.2 (2013): 1599-1608.	57.55	5.255	2
6	Goddard, P. J., & Glover, K. (1998). Controller approximation: approaches for preserving H/sub/spl infin//performance. IEEE transactions on Automatic Control, 43(7), 858-871.	55.07	5.007	2
7	Agler, Jim, Zinaida A. Lykova, and N. J. Young. "A Case of μ -Synthesis as a Quadratic Semidefinite Program." SIAM Journal on Control and Optimization 51.3 (2013): 2472-2508.	20.94	1.594	2
8	Agler, J., Z. A. Lykova, and N. J. Young. "Newcastle University ePrints." Proceedings of the London Mathematical Society 106.4 (2013): 781-818.	17.72	1.272	2
9	H-infinity Control and Filtering of Two-Dimensional Systems By Chungling Du, Lihua Xie, Lecture Notes in Control and Information Sciences, Springer, vol 278	25		2

A.Ignat, J.Sprekels, D.Tiba - A model of a general elastic curved rod, Math. Meth. Appli. Sci., 25,2002, 835-854.

Citată în

		Punctaj	FI	Nr. autori
1	Yu, A. M., and Y. Hao. "Free vibration analysis of cylindrical helical springs with noncircular cross-sections." Journal of Sound and Vibration 330.11 (2011): 2628-2639.	20.786667	2.618	3
2	Yu, A. M., C. J. Yang, and G. H. Nie. "Analytical formulation and evaluation for free vibration of naturally curved and twisted beams." Journal of Sound and Vibration 329.9 (2010): 1376-1389.	20.786667	2.618	3
3	Yu, Aimin, and Changjin Yang. "Formulation and evaluation of an analytical study for cylindrical helical springs." Acta Mechanica Solida Sinica 23.1 (2010): 85-94.	10.993333	1.149	3
4	Vodák, Rostislav. "A general asymptotic dynamic model for Lipschitzian elastic curved rods." Journal of Applied Mathematics 2005.4 (2005): 425-451.	8.1333333	0.72	3
5	Arnăutu, Viorel, and Ana-Maria Moşneagu. "Numerical locking problems for hyperbolic equations." Numerical functional analysis and optimization 31.5 (2010): 549-568.	8.8466667	0.827	3

Anexa 1 - Activitatea de cercetare - Ignat Anca

6	Rossikhin, Yu A., and M. V. Shitikova. "The method of ray expansions for solving boundary-value dynamic problems for spatially curved rods of arbitrary cross-section." Acta mechanica 200.3-4 (2008): 213-238.	17.42	2.113	3
7	Vodák, Rostislav. "Asymptotic analysis of elastic curved rods." Mathematical methods in the applied sciences 30.1 (2007): 43-75.	11.2	1.18	3
8	Arnăutu, Viorel, and Ana-Maria Moşneagu. "Numerical Locking Problems for Parabolic Equations." Numerical functional analysis and optimization 32.9 (2011): 927-945.	8.8466667	0.827	3

M.Costin, A.Ignat, O.Baltag, S.Bejinariu, C.Ştefănescu, F.Rotaru, D.Costandache - 3D Breast Shape Reconstruction for a Non-Invasive Early Breast Cancer System, SOFA 2007, 2nd IEEE Internat. Workshop on Soft Computing Applications, Gyula, Hungary - Oradea, Romania, 21-23 August 2007.

Citată în

		Punctaj	Nr autori
1	Bellocchio, F., Borghese, N.A., Ferrari, S., Piuri, V., 3D Surface Reconstruction. Springer New York, 2013.	7.1428571	7

M.Costin, A.Ignat - Pitfalls in Using Dual Tree Complex Wavelet Transform for Texture Featuring: a Discussion, 2011 IEEE 7th International Symposium on Intelligent Signal Processing (WISP) Proceedings, September 19-21, Malta, 110-115.

Citată în

		Punctaj	FI	Nr autori
1	Vermaak, H., Nsengiyumva, P., & Luwes, N. (2016). Using the Dual-Tree Complex Wavelet Transform for Improved Fabric Defect Detection. Journal of Sensors, 2016.	25.57	2.057	2

Anexa 1 - Activitatea de cercetare - Ignat Anca

Ignat, A., Luca, M., & Ciobanu, A. (2013, November). Iris features using dual tree complex wavelet transform in texture evaluation for biometrical identification. In E-Health and Bioengineering Conference (EHB), 2013 (pp. 1-4). IEEE.

Citată în

		Punctaj	FI	Nr. autori
1	Umer, S., Dhara, B. C., & Chanda, B. (2017). A novel cancelable iris recognition system based on feature learning techniques. <i>Information Sciences</i> , 406, 102-118.	32.033333	4.305	3
2	Umer, S., Dhara, B. C., & Chanda, B. NIR and VW iris image recognition using ensemble of patch statistics features. <i>The Visual Computer</i> , 1-18.	10.24	1.036	3
3	Soliman, R. F., Amin, M., & El-Samie, F. E. A. (2018). A double random phase encoding approach for cancelable iris recognition. <i>Optical and Quantum Electronics</i> , 50(8), 326.	11.12	1.168	3
4	Soliman, R. F., Ramadan, N., Amin, M., Ahmed, H. H., El-Khamy, S., & El-Samie, F. E. A. (2018). Efficient Cancelable Iris Recognition Scheme Based on Modified Logistic Map. <i>Proceedings of the National Academy of Sciences, India Section A: Physical Sciences</i> , 1-7.	8.36	0.754	3

Ignat, A., & Coman, M. (2015, November). Gender recognition with Gabor filters. In E-Health and Bioengineering Conference (EHB), 2015 (pp. 1-4). IEEE.

Citată în

		Punctaj	FI	Nr. Autori
1	Dagher, I., & Azar, F. (2019). Improving the SVM gender classification accuracy using clustering and incremental learning. <i>Expert Systems</i> , e12372.	19.3	1.43	2

Anexa 1 - Activitatea de cercetare - Ignat Anca

Păvăloi, I., & Ignat, A. (2017, June). Iris recognition using statistics on pixel position. In *2017 E-Health and Bioengineering Conference (EHB)* (pp. 422-425). IEEE.

Citată în

		Punctaj	FI	Nr. autori
1	Lee, Y. W., Kim, K. W., Hoang, T. M., Arsalan, M., & Park, K. R. (2019). Deep Residual CNN-Based Ocular Recognition Based on Rough Pupil Detection in the Images by NIR Camera Sensor. <i>Sensors</i> , 19 (4), 842.	29.75	2.475	2

Ignat, A., & Aciobanitei, B. (2016, September). Handwritten digit recognition using rotations. In *2016 18th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)* (pp. 303-306). IEEE.

Citată în

		Punctaj	FI	Nr. autori
1	Kusetogullari, H., Yavariabdi, A., Cheddad, A., Grahn, H., & Hall, J. (2019). ARDIS: a Swedish historical handwritten digit dataset. <i>Neural Computing and Applications</i> , 1-14.	47.13	4.213	2

Ignat, A. (2015, September). Combining features for texture analysis. In *International Conference on Computer Analysis of Images and Patterns* (pp. 220-229). Springer, Cham.

Citată în

		Punctaj	FI	Nr. autori
1	Qiao, T., Ren, J., Wang, Z., Zabalza, J., Sun, M., Zhao, H., ... & Marshall, S. (2017). Effective denoising and classification of hyperspectral images using curvelet transform and singular spectrum analysis. <i>IEEE transactions on geoscience and remote sensing</i> , 55 (1), 119-133.	103.24	4.662	1

Anexa 1 - Activitatea de cercetare - Ignat Anca

Profesor/cercetător invitat la universități/institute de cercetare

1	2 saptamani WIAS (Weierstrass Institute for Applied Analysis and Stochastics) Berlin , iulie 2000	25
2	6 luni - bursa INRIA, Rocquencourt, ian-iun 1993	25
3	12 luni - INSTITUTE OF MATHEMATICS AND SCIENTIFIC COMPUTING, Karl-Franzens University of Graz, postdoctoral research associate, feb 2001, ian 2002	25
4	2 luni bursa Tempus, Marsilia, iun-iul 1998	25

Participări la manifestări științifice

1	Chairperson - EHB2015	10	http://www.ehbconference.ro/Portals/10/PROGRAM_DETALAT.pdf
2	Chairperson - EHB2017	10	http://www.ehbconference.ro/Portals/0/EHB_2017_PROGRAM_v15.pdf

Total activitate de cercetare

1419.84

Anexa 1 - Activitatea didactică
- Ignat Anca

Activitate didactică (30%)

**Materiale suport curs, seminar, lucrări
practice și programe analitice detaliate**

Calcul Numeric - curs	10	https://profs.info.uaic.ro/~ancai/CN/
Calcul Numeric - laborator	10	https://profs.info.uaic.ro/~ancai/CN/
Numerical Calculus - curs	10	https://profs.info.uaic.ro/~ancai/NC/
Numerical Calculus - laborator	10	https://profs.info.uaic.ro/~ancai/NC/
Prelucrarea Digitală a Imaginilor - curs	10	https://profs.info.uaic.ro/~ancai/DIP/
Prelucrarea Digitală a Imaginilor - laborator	10	https://profs.info.uaic.ro/~ancai/DIP/
Teoria Sistemelor Dinamice (2005) - curs	10	https://profs.info.uaic.ro/~ancai/TSD/
Teoria Sistemelor Dinamice (2005) - laborator	10	https://profs.info.uaic.ro/~ancai/TSD/
Bazele Optimizării Combinatoriale -curs	10	https://profs.info.uaic.ro/~ancai/BOC/

Total activitate didactică 90