

Anexa 2 - Ignat Anca

Perspective	Total	Îndeplinit/neîndeplinit
Producția științifică	36.9	îndeplinit ( $\geq 32$ )
Producția științifică (A*+A+B)	16	îndeplinit ( $\geq 16$ )
Impactul rezultatelor	160	îndeplinit ( $\geq 48$ )
Impactul rezultatelor (A*+A+B)	128	îndeplinit ( $\geq 12$ )
Performanța academică	49	îndeplinit ( $\geq 36$ )

**Producția științifică**

Nr.	Articol	Tip	Pctj	Forum
1	<b>A.Ignat</b> - <i>Aproximation of <math>H_{\infty}</math>-control problem in Hilbert spaces</i> , Numer. Funct. Anal. And Optimiz., 18(5-6),1997, 591-608.	C	2	
2	<b>A.Ignat</b> , J.Sprekels, D.Tiba - <i>Analysis and Optimization of Nonsmooth Arches</i> , SIAM J. Control. Optim., Vol. 40, Nr. 4, 2001, 1107-1133.	A	8	
3	<b>A.Ignat</b> , J.Sprekels, D.Tiba - <i>A model of a general elastic curved rod</i> , Math. Meth. Appli. Sci., 25,2002, 835-854.	C	2	
4	M.Costin, <b>A.Ignat</b> , 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.	C	0.4	CORE2013
5	<b>A.Ignat</b> , M.Luca - <i>New Method of Iris Recognition using Dual Tree Complex Wavelet Transform</i> , 6-th International Workshop on Soft Computing, SOFA 2014, July 24-26, 2014.	C	2	CORE2014
6	<b>A.Ignat</b> , M.Luca, A. Ciobanu - <i>Rotation Invariant Texture Retrieval Using Dual Tree Complex Wavelet Transform</i> , 6-th International Workshop on Soft Computing, SOFA 2014, July 24-26, 2014.	C	2	CORE2014
7	F.Rotaru, S.I.Bejinariu, C.D.Niță, R.Luca, M.Luca, <b>A.Ignat</b> - <i>Optic Disc Recognition Method for Retinal Images</i> , 6-th International Workshop on Soft Computing, SOFA 2014, July 24-26, 2014.	C	0.5	CORE2014
8	<b>A.Ignat</b> - <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.	B	4	CORE2014
9	V.Dima, <b>A.Ignat</b> , 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.	C	2	CORE2017
10	I.Pavaloi, <b>A.Ignat</b> - <i>Iris Recognition using Color and Texture Features</i> , 7-th International Workshop on Soft Computing, SOFA 2016, Arad, Romania, August 24-26, 2016.	C	2	CORE2017

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### Producția științifică

11	<b>A. Ignat</b> , 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.	C	2	CORE2017
12	<b>A. Ignat</b> , B. Aciobanitei - <i>Handwritten digit recognition using rotations</i> , 18-th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2016, Timisoara, Romania, September 24-27, 2016.	C	2	CORE2017
13	<b>Ignat, A.</b> , & Vasiliu, A. (2018). <i>A study of some fast inpainting methods with application to iris reconstruction</i> . KES 2019, <i>Procedia Computer Science</i> , 126, 616-625.	B	4	CORE2018
14	I. Pavaloi, <b>A. Ignat</b> , <i>Experiments on phonetic transcription of audio vowels</i> , 8-th International Workshop on Soft Computing Applications 13-15 September, 2018-Arad, Romania, SOFA 2018	C	2	CORE2018
15	I. Pavaloi, <b>A. Ignat</b> , <i>Experiments on Iris Recognition using Partially Occluded Images</i> , 8-th International Workshop on Soft Computing Applications 13-15 September, 2018-Arad, Romania, SOFA 2018	C	2	CORE2018
16	<b>A. Ignat</b> , <i>Inpainting with Fokker-Planck equation</i> , acceptata spre publicare in Proceedings of the Romanian Academy, Series A	C	0	
17	I. Pavaloi, <b>A. Ignat</b> , <i>Iris Image Classification Using SIFT Features</i> , acceptata spre sustinere la 23rd International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, KES 2019, Budapesta, Ungaria, 4-6 sept 2019	B	0	CORE2018

**Total 36.9**

**Total A+B 16**

## Impactul rezultatelor

	Articol	tip	pctj	forum
	<b>P.Gahinet, A.Ignat - <i>Low-order <math>H_\infty</math> synthesis via LMIs</i>, Proc. American Control Conference, Baltimore, Maryland, 1994, 1499-1500.</b>			
1	H-infinity Control and Filtering of Two-Dimensional Systems By Chungling Du, Lihua Xie, Lecture Notes in Control and Information Sciences, vol 278, Springer, 2002	D	0	
2	Du, C., Xie, L., Soh, YC. (2001) "H $\infty$ Reduced Order Approximation of 2-D Digital Filters", IEEE Transactions on Circuits and Systems-I. 48: pp. 688-698	A	8	
3	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.	A	8	
4	Valentin, C.; Duc, G., "LMI-based algorithms for frequency weighted optimal H2-norm model reduction," Decision and Control, 1997., Proceedings of the 36th IEEE Conference on , vol.1, no., pp.767,772 vol.1, 10-12 Dec 199	A	8	core 2008
5	Rotunno, M.; de Callafon, R.A., "A bundle method for solving the fixed order control problem," Decision and Control, 2002, Proceedings of the 41st IEEE Conference on , vol.3, no., pp.3156,3161 vol.3, 10-13 Dec. 2002	A	8	core 2008
6	Pare, T.E.; How, J.P., "Algorithms for reduced order robust H $\infty$ control design," Decision and Control, 1999. Proceedings of the 38th IEEE Conference on , vol.2, no., pp.1863,1868 vol.2, 1999	A	8	core 2008
7	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	A	8	reviste 2007 IF
8	Poncela, A., Casado, C., Baeyens, E. and Perán, J. R. (2005), Design of devices for protecting civil structures using fixed-order $\mathcal{H}_\infty$ control. Struct. Control Health Monit., 14: 239–260.	A	8	
9	Z. Zhao, Q. Zhang et X. Liu, H1 Control and Parametric Controllers for Descriptor Systems, Proc. of the American Control Conference, pp. 4908-4913, 2002	D	1	

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10	Bigras, Pascal, Tony Wong, and Karim Khayati. "Structured optimal controller design using BMI formulation." CESA'2003: IMACS multiconference computational engineering in systems applications. 2003.	D	0	
11	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.	A	8	
12	Bigras, Pascal, and Tony Wong. Structured controller design for optimal model-matching. Technical report, Ecole de Technologie Supérieure, 1100, Notre Dame Street West, Montreal, Quebec, Canada.	D	0	
13	Benlatreche, Adlane Abdelkader. "Contribution à la commande robuste $H^\infty$ de systèmes à grande échelle d'enroulement de bandes flexibles." These de Doctorat, Université Louis Pasteur-Strasbourg I (2007).	D	0	
14	Goddard, P. J., & Glover, K. (1998). Controller approximation: approaches for preserving $H_2$ performance. IEEE transactions on Automatic Control, 43(7), 858-871.	A	8	reviste 2007 IF
15	Chou, Y., K. Hsieh, and Y. Chu. "A Unified Approach to Reduced-Order $H_2$ Output Feedback Controller Design." Tamkang Journal of Science and Engineering 9.4 (2006): 357.	D	0	
16	Agler, Jim, Zinaida A. Lykova, and N. J. Young. "A Case of $\mu$ -Synthesis as a Quadratic Semidefinite Program." SIAM Journal on Control and Optimization 51.3 (2013): 2472-2508.	A	8	
17	Agler, J., Z. A. Lykova, and N. J. Young. "Newcastle University ePrints." Proceedings of the London Mathematical Society 106.4 (2013): 781-818.	A	8	
18	Argüello Fajardo, Juan Pablo. Desarrollo de un sistema para la implementación de controladores lineales multivariables/Development of a system for linear multivariable controller implementation. Diss. Universidad Nacional de Colombia.	D	0	
19	Valentin, C., & Duc, G. (1997, July). Low order $H^\infty$ controller design: A practical analysis of the potential reduction method. In Control Conference (ECC), 1997 European (pp. 742-747). IEEE.	D	1	
20	Chou, Y. S., Hsieh, K. C., & Chuang, C. M. (2004, July). On the design of reduced-order $H_2$ controllers with coefficient constraint. In Circuits and Systems, 2004. MWSCAS'04. The 2004 47th Midwest Symposium on (Vol. 3, pp. iii-129). IEEE.	D	1	

Impactul rezultatelor

21	Imae, J., & Furudate, T. (1999). A design method for fixed-order H/sub/spl infin//controllers via bilinear matrix inequalities. In American Control Conference, 1999. Proceedings of the 1999(Vol. 3, pp. 1876-1880). IEEE.	D	1	
	<b>A.Ignat, J.Sprekels, D.Tiba - Analysis and Optimization of Nonsmooth Arches, SIAM J. Control. Optim., Vol. 40, Nr. 4, 2001, 1107-1133.</b>			
1	Tayşi, N., M. T. Göğüş, and M. Özakça. "Optimization of arches using genetic algorithm." Computational Optimization and Applications 41.3 (2008): 377-394.	B	4	
	<b>A.Ignat, J.Sprekels, D.Tiba - A model of a general elastic curved rod, Math. Meth. Appl. Sci., 25,2002, 835-854.</b>			
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.	A	8	
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.	A	8	
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.	B	4	
4	Vodák, Rostislav. "A general asymptotic dynamic model for Lipschitzian elastic curved rods." Journal of Applied Mathematics 2005.4 (2005): 425-451.	D	0	
5	Arnăutu, Viorel, and Ana-Maria Moşneagu. "Numerical locking problems for hyperbolic equations." Numerical functional analysis and optimization 31.5 (2010): 549-568.	B	4	
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.	B	4	

## Impactul rezultatelor

7	Vodák, Rostislav. "Asymptotic analysis of elastic curved rods." Mathematical methods in the applied sciences 30.1 (2007): 43-75.	C	2	
8	Arnăutu, Viorel, and Ana-Maria Moşneagu. "Numerical Locking Problems for Parabolic Equations." Numerical functional analysis and optimization 32.9 (2011): 927-945.	C	2	
	<b>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.</b>			
1	Bellocchio, F., Borghese, N.A., Ferrari, S., Piuri, V., "Reconstruction." 3D Surface Reconstruction. Springer New York, 2013. 43-59.	D	1	
2	Bellocchio, F., Borghese, N.A., Ferrari, S., Piuri, V., "Hierarchical Support Vector Regression." 3D Surface Reconstruction. Springer New York, 2013. 111-142.	D	1	
3	Bellocchio, F., Borghese, N.A., Ferrari, S., Piuri, V., "Scanner systems." 3D Surface Reconstruction. Springer New York, 2013. 21-42.	D	1	
4	Bellocchio, F., Borghese, N.A., Ferrari, S., Piuri, V., "Surface fitting as a regression problem." 3D Surface Reconstruction. Springer New York, 2013. 61-76.	D	1	
5	Bellocchio, F., Borghese, N.A., Ferrari, S., Piuri, V., "Hierarchical Radial Basis Functions Networks." 3D Surface Reconstruction. Springer New York, 2013. 77-110.	D	1	
	<b>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.</b>			
1	Vermaak, H., Nsengiyumva, P., & Luwes, N. (2016). Using the Dual-Tree Complex Wavelet Transform for Improved Fabric Defect Detection. Journal of Sensors, 2016.	C	2	

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2	Nsengiyumva, P. (2014). A Vision-based Quality Inspection System for Fabric Defect Detection and Classification (Doctoral dissertation, Bloemfontein: Central University of Technology, Free State).	D	0	
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	<b>Ignat, A., Luca, M., &amp; 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.</b>			
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.	A	8	
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.	D	0	
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.	C	2	
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.	D	1	
	<b>Ignat, A., &amp; Coman, M. (2015, November). Gender recognition with Gabor filters. In E-Health and Bioengineering Conference (EHB), 2015 (pp. 1-4). IEEE.</b>			
1	Hatipoğlu, B., Yılmaz, Ç. M., & Köse, C. (2017, May). A comparison of two appearance based methods for gender recognition. In <i>Signal Processing and Communications Applications Conference (SIU)</i> , 2017 25th (pp. 1-4). IEEE.	D	1	
2	Hatipoglu, B., & Kose, C. (2017, October). A gender recognition system from facial images using SURF based BoW method. In <i>Computer Science and Engineering (UBMK), 2017 International Conference on</i> (pp. 989-993). IEEE.	D	1	



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3	Gupta, S. K., & Nain, N. (2018). Gabor Filter meanPCA Feature Extraction for Gender Recognition. In <i>Proceedings of 2nd International Conference on Computer Vision &amp; Image Processing</i> (pp. 79-88). Springer, Singapore.	D	1	
4	Liu, H. H., Xu, S. S. D., Chiu, C. C., & Chiu, S. Y. (2017, June). Gender recognition technology of whole body image. In <i>Consumer Electronics-Taiwan (ICCE-TW), 2017 IEEE International Conference on</i> (pp. 263-264). IEEE.	D	1	
5	Shinde, S. R., & Thepade, S. (2019, April). Gender Classification from Face Images Using LBG Vector Quantization with Data Mining Algorithms. In <i>2018 Fourth International Conference on Computing Communication Control and Automation (ICCUBEA)</i> (pp. 1-5). IEEE.	D	1	
6	Dagher, I., & Azar, F. (2019). Improving the SVM gender classification accuracy using clustering and incremental learning. <i>Expert Systems</i> , e12372.	C	2	
	<b>Păvăloi, I., &amp; Ignat, A. (2017, June). Iris recognition using statistics on pixel position. In 2017 E-Health and Bioengineering Conference (EHB) (pp. 422-425). IEEE.</b>			
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.	B	4	
	<b>Pavaloi, I., Ciobanu, A., Luca, M., Musca, E., Barbu, T., &amp; Ignat, A. (2014, October). A study on automatic recognition of positive and negative emotions in speech. In 2014 18th International Conference on System Theory, Control and Computing (ICSTCC) (pp. 221-224). IEEE.</b>			
1	Barros, P., Weber, C., & Wermter, S. (2015, November). Emotional expression recognition with a cross-channel convolutional neural network for human-robot interaction. In <i>2015 IEEE-RAS 15th International Conference on Humanoid Robots (Humanoids)</i> (pp. 582-587). IEEE.	C	2	CORE2013

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2	Matsufuji, A., Shiozawa, T., Hsieh, W. F., Sato-Shimokawara, E., Yamaguchi, T., & Chen, L. H. (2017, December). The Analysis of Nonverbal Behavior for Detecting Awkward Situation in Communication. In <i>2017 Conference on Technologies and Applications of Artificial Intelligence (TAAI)</i> (pp. 118-123). IEEE.	D	1	
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	<b>Ignat, A., &amp; Aciobanitei, B. (2016, September). Handwritten digit recognition using rotations. In <i>2016 18th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)</i> (pp. 303-306). IEEE.</b>			
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.	D	1	
	<b>Ignat, A. (2015, September). Combining features for texture analysis. In <i>International Conference on Computer Analysis of Images and Patterns</i> (pp. 220-229). Springer, Cham.</b>			
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.	A	8	

**Total            160**

**A\*+A+B        128**

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### Performanța academică

	Cărți		Punctaj
1	E. Bârsan, <b>A. Ignat</b> - Modelarea calității apei în sistemele de distribuție, Ed. Performantica, Iași 2005	D	2
2	<b>A. Ignat</b> - Calcul Numeric, curs invatamant la distanta, Ed. Univ. "Alexandru Ioan Cuza", Iasi, ISSN -1221:9363	D	2
3	Capitolul De la perceptia vizuala la detectarea automata a texturii (M. Costin si <b>A. Ignat</b> ) in volumul De la procesarea de imagini catre vederea artificiala. Progrese cognitive (coord. M. Luca), Ed. Institutului European, 2013	D	1

	Cursuri în format electronic		Punctaj	
1	Teoria Sistemelor Dinamice (2005)		2	<a href="https://profs.info.uaic.ro/~ancai/TSD">https://profs.info.uaic.ro/~ancai/TSD</a>
2	Bazele Optimizarii Combinatorice (2007)		2	<a href="https://profs.info.uaic.ro/~ancai/BOC/">https://profs.info.uaic.ro/~ancai/BOC/</a>
3	Calcul Numeric		2	<a href="https://profs.info.uaic.ro/~ancai/CN/">https://profs.info.uaic.ro/~ancai/CN/</a>
4	Prelucrarea Digitala a Imaginilor		2	<a href="https://profs.info.uaic.ro/~ancai/DIP/">https://profs.info.uaic.ro/~ancai/DIP/</a>
5	Numerical Calculus		2	<a href="https://profs.info.uaic.ro/~ancai/NC/">https://profs.info.uaic.ro/~ancai/NC/</a>

	Membru contracte		Punctaj
1	Instruirea Profesorilor de Informatica pe Tehnologia .Net, POSDRU/87/1.3/S/62426		1
2	Retea interregionala de formare in sistem e-learning a cadrelor didactice din invatamantul preuniversitar, POSDRU/87/1.3/S/51391		1

### Performanța academică

3	Sistem de monitorizare și asistență pentru persoanele cu nevoi speciale, acronim SIMAPS, contract de prestări servicii de cercetare-dezvoltare, 104/17.11.2014, Program POSCCE, AXA 1, D.M.I. 1.3		1
4	Dezvoltare experimentală în parteneriat public privat pentru crearea de platforme cloud autohtone cu caracteristici avansate de protecție a datelor, acronim PrivateSky, POC-A1-A1.2.3-G-2015, ID P_40_371, cod SMIS 106611, Ctr. nr. 13/01.09.2016		4

	<b>Organizare evenimente științifice</b>			
1	Re-sampling methods (with R), 22-24 oct 2010, Iasi, training, participare nationala, 35 participanti		0	
2	Adaptive and sequential procedures for clinical trials, 6-8 apr. 2011, Iasi, training, participare nationala, 29 participanti		0	
3	Statistical Methods for Clinical Trials, 18-20 iun 2012, Iasi, curs, cu participare internationala nationala, 36 participanti		0	
4	Statistical Perspective in Medicine and Pharma Industry, 6-8 nov. 2014, Sibiu		1	<a href="http://www.iscb.pl/dokumenty/Statistical%20Perspective%20in%20Medicine%20and%20Pharma%20Industry%20-%206-8%20November%202014%20Sibiu.pdf">http://www.iscb.pl/dokumenty/Statistical%20Perspective%20in%20Medicine%20and%20Pharma%20Industry%20-%206-8%20November%202014%20Sibiu.pdf</a>
5	Biostatistical Analysis in Epidemiological Research 1st – 2nd October 2015 Faculty of Medicine, “Lucian Blaga” University of Sibiu		0	

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	Cercetător asociat		
			Punctaj
1	12 luni - INSTITUTE OF MATHEMATICS AND SCIENTIFIC COMPUTING, Karl-Franzens University of Graz, postdoctoral research associate, feb 2001 - ian 2002		24
2	2 saptamani WIAS (Weierstrass Institute for Applied Analysis and Stochastics ) Berlin , iulie 2000		
3	2 luni bursa Tempus, Marsilia, iunie-iulie 1998		
4	6 luni - bursa INRIA, Rocquencourt, ian-iun 1993		

	Poziții de conducere în organizații profesionale		
			Punctaj
1	Vicepresedinte ISCB (International Society for Computational Biology) Romanian National Group		2

**Total            49**