4. Criterii de performanță în cercetarea științifică (toate criteriile analizează numai perioada de evaluare) (40%)
4.1. Participarea la un program fundamental sau prioritar al Academiei Române și realizarea obiectivelor sale.
25


4.2. Un tratat apărut într-o editură consacrată din străinătate $^2$ $25 \times (N_s/N_a) \Sigma^5$

4.3. O carte apărută într-o editură consacrată din străinătate $^2$ $20 \times (N_s/N_a) \Sigma^5$


4.4. O monografie apărută într-o editură consacrată din străinătate $^2$ $15 \times (N_s/N_a) \Sigma^5$

4.5. O carte editată într-o editură consacrată din străinătate $^2$ $10 \times (N_s/N_a) \Sigma^5$


4.6. Un tratat editat într-o editură consacrată din străinătate $^2$ $13 \times (N_s/N_a) \Sigma^5$

4.7. O monografie editată într-o editură consacrată din străinătate $^2$ $8 \times (N_s/N_a) \Sigma^5$

4.8. Un tratat apărut în Editura Academiei Române $13 \times (N_s/N_a) \Sigma^5$

4.9. O carte apărută în Editura Academiei Române $10 \times (N_s/N_a) \Sigma^5$


4.14. Un articol publicat într-o revistă cotată de Web of Science (Thomson Reuters) $(1 + FI) \times (N_s/N_a)^4$

<p>| 1. | T. Barbu. Novel Approach for Moving Human Detection and Tracking in Static Camera Video Sequences, Proceedings of the Romanian Academy, Series A, Volume 13, Number 3, pp. 269-277, July-September 2012. (impact factor = 0.149) | 2012 | (1+0.149)*1/1 | 1.149 |</p>
<table>
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<td>T. Barbu. A PDE based Model for Sonar Image and Video Denoising,</td>
<td>Analele Stiintifice ale Universitatii Ovidius, Constanta, Seria Matematica, Volumul 19, Fascicola 3, pp. 51-58, 2011, ISSN 1224 - 1784. (impact factor = 0.044)</td>
<td>2011</td>
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<td>7</td>
<td>T. Barbu. An Automatic Face Detection System for RGB Images,</td>
<td>International Journal of Computers, Communications &amp; Control, Vol. 6, No.1, pp. 21-32, 2011, ISSN 1841-9836. (impact factor = 0.650)</td>
<td>2011</td>
<td>(1+0.650)*1/1 1.650</td>
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<td>8</td>
<td>T. Barbu. Gabor filter-based face recognition technique,</td>
<td>Proceedings of the Romanian Academy, Series A, Volume 11, Number 3, pp. 277 - 283, July-September 2010. (impact factor = 0.149)</td>
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<td>9</td>
<td>M. Fira, L. Goras, C. Barabasa, N. Cleju, “On ECG Compressed Sensing using Specific Overcomplete Dictionaries”,</td>
<td>Advances in Electrical and Computer Engineering, Vol. 10, Nr. 4, 2010, pp. 23- 28, impact factor = 0.7.</td>
<td>2010</td>
<td>(1+0.7)*(2/4) 0.85</td>
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<td>13</td>
<td>C. Andriesei, L. Goras. V. Maffe, Comment on “Compact, High-Q, and Low-Current Dissipation CMOS Differential Active Inductor” IEEE Microwave and Wireless Components Letters, Volume: 22 , Issue: 7 , 2012 , Page(s): 381 – 382, impact factor = 1.71,</td>
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<td>2012</td>
<td>(1+1.7)*(1/3) 0.9</td>
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<td>C. Andriesei, L. Goras, F. Temcamani, 2010 “Q-enhancement Technique Applied to an Inductorless RF Filter”, Revue Roumaine de Sciences Techniques nr. 2/2010, impact factor = 0.136,</td>
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<td>(1+0.136)*(1/3) 0.37</td>
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<td>15</td>
<td>Cristian Andriesei, Liviu Goras, Farid Temcamani, “On a RF Bandpass Filter Tuning Method”, REV. ROUM. SCI. TECHN.</td>
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<td>Liviu Goras, Ionut Vornicu</td>
<td>Spatial Filtering Using Analog Parallel Architectures and Their Log-Domain Implementation</td>
<td>2010</td>
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<td>C. Rotariu, H. Costin, Ioana Alexa, Gladiola Andruseac, V. Manta, B. Mustaţă</td>
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<td>18</td>
<td>Brudaru O., Popovici D., Copaceanu C.</td>
<td>Cellular genetic algorithm with communicating grids for assembly line balancing problems</td>
<td>2010</td>
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<td>19</td>
<td>Horia-Nicolai Teodorescu</td>
<td>Classes Of Diophantic Equations Arising In Relation To Function Implementation On Microcontrollers</td>
<td>2010</td>
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<td>20</td>
<td>Alina Untu (Hulea), H.N. Teodorescu</td>
<td>Micro-Acoustical Analysis And Classification of The Fricative /V/</td>
<td>2011</td>
<td>0.57</td>
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<td>22</td>
<td>Teodorescu H.N.</td>
<td>On the meaning of approximate reasoning - An unassuming subsidiary to Lotfi Zadeh's paper dedicated to the memory of Grigore Moisil</td>
<td>2011</td>
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<td>23</td>
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<td>Pattern Formation and Stability Issues in Coupled Fuzzy Map Lattices</td>
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<td>24</td>
<td>O. Agrigoroaiei, G. Ciobanu</td>
<td>Reversing Computation in Membrane Systems</td>
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<td>Rule-based and object-based event structures for membrane systems</td>
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<td>Adding Lifetime to Objects and Membranes in P Systems</td>
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<td>Mutual mobile membranes with objects on surface</td>
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<td>Computing by endocytosis and exocytosis.</td>
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<td>G. Ciobanu, S. N. Krishna</td>
<td>Enhanced Mobile Membranes: Computability</td>
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### Results

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<td>30</td>
<td>G. Ciobanu, M. Koutny. Timed Mobility in process algebra and Petri nets. Journal of Logic and Algebraic Programming, vol.80, 377-391, 2011.</td>
<td>2011</td>
<td>(1+0.580)/2*1</td>
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<td>38</td>
<td>G. Ciobanu, M. Koutny. Modelling and analysis of biological systems, Theoretical Computer Science, vol. 431, 2-3, 2012.</td>
<td>2012</td>
<td>(1+0.780)/2*1</td>
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<td>H.-N. Teodorescu. Epidemic Noise Models and Epidemic Filtering – Preliminary Proposal and Analysis of Capabilities. Proc RA Series A nr 4 / 2012</td>
<td>2012</td>
<td>(1+0.149)*1/1</td>
<td>1,149</td>
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### 4.16. O lucrare prezentată la o manifestare științifică internațională, publicată integral într-un volum editat într-o editură consacrată din străinătate, inclusiv electronic (Conference Proceedings Citation Index- Science, Web of Science, Thomson Reuters)²

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<td>Studies in Computational Intelligence</td>
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<td>O. Agrigoroaiei, G. Ciobanu</td>
<td>Flattening the Transition P Systems with Dissolution.</td>
<td>Lecture Notes in Computer Science</td>
<td>2011</td>
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<td>G. Ciobanu, M. Koutrny</td>
<td>Timed Migration and Interaction with Access Permissions.</td>
<td>Lecture Notes in Computer Science</td>
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<td>12</td>
<td>G. Ciobanu, S. N. Krishna</td>
<td>( \Sigma_2^P \cup \Pi_2^P ) Lower Bound Using Mobile Membranes.</td>
<td>Lecture Notes in Computer Science</td>
<td>2011</td>
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<td>14</td>
<td>G. Ciobanu, E. N. Todoran</td>
<td>Continuation semantics for concurrency applied to parallel rewriting of</td>
<td>Proceedings 12th International Symposium on Symbolic</td>
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<td>A Timed Mobility Semantics based on Rewriting Strategies.</td>
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<td>G. Ciobanu, G.M. Pinna</td>
<td>Catalytic Petri Nets are Turing Complete.</td>
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<td>S.N. Krishna, B. Aman, G. Ciobanu</td>
<td>On the Computability Power of Membrane Systems with Controlled Mobility.</td>
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<td>Pitfalls in using Dual Tree Complex Wavelet Transform for</td>
<td>IEEE 7th International Symposium on Intelligent Signal</td>
<td>2011</td>
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<td>texture featuring: A discussion.</td>
<td>Processing (WISP), 19-21 Sept. 2011, Floriana, Malta,</td>
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| 2010 | 2/2*2 | 2 |

4.17. Un capitol într-un tratat, carte sau monografie editate într-o editură consacrată din străinătate

13×(N_r/N_a)×(N_p/N_{tp})


4.18. Un capitol într-un tratat, carte sau monografie editate în Editura Academiei Române

7×(N_r/N_a)×(N_p/N_{tp})

| 2010 | 7x1/2x8/437 | 0.144 |

4.19. Număr de citări conform Web of Science (Thomson Reuters) 0,5

Lucrarea M. Fira, L. Goras, „An ECG Signals Compression Method and Its Validation Using NNs”, IEEE Transactions on Biomedical Engineering, Vol. 55, No. 4, 2008,

Are 9 citări in perioada 2010 – 2012 conform Web of Science - 9*0,5 = 4.5 puncte


Citări ISI Web of Science:


Citări ISI:


Citări ISI:

13. Title: AN OVERVIEW ON OPERATIONAL SEMANTICS IN MEMBRANE COMPUTING

Author(s): Barbuti Roberto; Maggiolo-Schettini Andrea; Milazzo Paolo; Tini S.


Citări ISI:

14. Title: (Tissue) P systems working in the k-restricted minimally or maximally parallel transition mode

Author(s): Freund Rudolf; Verlan Sergey
Source: NATURAL COMPUTING Volume: 10 Issue: 2 Special Issue: SI Pages: 821-833 DOI: 10.1007/s11047-010-9215-z Published: JUN 2011

15. Title: P SYSTEMS WITH PROTEINS ON MEMBRANES: A SURVEY
Author(s): Paun Andrei; Paun Mihaela; Rodriguez-Paton Alfonso; Sidoroff M.


16. Title: A semantic equivalence for Bio-PEPA based on discretisation of continuous values
Author(s): Galpin Vashti; Hillston Jane
Source: THEORETICAL COMPUTER SCIENCE Volume: 412 Issue: 21 Pages: 2142-2161 DOI: 10.1016/j.tcs.2011.01.007 Published: MAY 6 2011

17. Title: Equivalences for a biological process algebra
Author(s): Galpin Vashti
Source: THEORETICAL COMPUTER SCIENCE Volume: 412 Issue: 43 Pages: 6058-6082 Published: 2011


18. Title: P systems with active membranes: Trading time for space
Author(s): Antonio E. Porreca, Alberto Leporati, Giancarlo Mauri and Claudio Zandron
Source: NATURAL COMPUTING Volume: 10 Issue: 1 Pages: 167-182 DOI: 10.1007/s11047-010-9189-x Published: MAR 2011


19. Title: ON STRONG REVERSIBILITY IN P SYSTEMS AND RELATED PROBLEMS
Author(s): Ibarra Oscar H.
Source: INTERNATIONAL JOURNAL OF FOUNDATIONS OF COMPUTER SCIENCE Volume: 22 Issue: 1 Pages: 7-14 DOI: 10.1142/S0129054111007782 Published: JAN 2011


Cited by ISI paper


Cited by ISI paper


Author(s): Teodorescu Horia-Nicolai; Zbancioc Marius-Dan; Pistol Laura
Title: Parallelizing Neuro-fuzzy Economic Models in a GRID Environment
Source: Studies in Informatics and Control Volume: 17 Issue: 1 Pages: 5-16 Published: MAR 2008

Cited by ISI paper

23. Programming Problems with a Large Number of Objective Functions
Author(s): Resteanu Cornel; Trandafir Romica
Editor(s): Dimov I; Dimov S; Kolkovska N
Conference: International Conference on Numerical Methods and Applications Location: Borovets, BULGARIA
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<td><strong>1.</strong> T. Barbu. Novel Approach for Moving Human Detection and Tracking in Static Camera Video Sequences, <em>Proceedings of the Romanian Academy</em>, Series A, Volume 13, Number 3, pp. 269-277, July-September 2012. (impact factor = 0.149)</td>
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<td><strong>6.</strong> T. Barbu. A PDE based Model for Sonar Image and Video Denoising, <em>Analele Stiintifice ale Universitatii Ovidius, Constanta, Seria Matematica</em>, Volumul 19, Fascicola 3, pp. 51-58, 2011, ISSN 1224 - 1784. (impact factor = 0.044)</td>
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4.21. O carte apărută într-o editură consacrată din țară: 7×(Nc/Np) Σ5

| 1. | Adrian Brezulianu, Monica Fira | Procesarea semnalelor biomedicale si aplicatii, Ed. Politehnium, Iasi, 2010, 244 pag | 2010 | 7*1/2 | 3.5 |
2. G. Ciobanu, Membrane Computing and Biologically Inspired Process Calculi. Editura Universității „Alexandru Ioan Cuza” Iași, 2010  

4.22. O carte editată într-o editură consacrată din țară\(^7\) \(3\times(N_e/N_a)\)

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4.23. Un articol apărut într-o revistă recunoscută de CNCS (B+) sau indexată într-o bază internațională de date (BDI) \(1\times(N_e/N_a)\)

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<td>8.</td>
<td>Adrian Brezulianu, Lucian Fira, Monica Fira, A genetic algorithm approach for scheduling of resources in well-services companies</td>
<td>International Journal of Advanced Research in Artificial Intelligence, IJARAI Volume 1 Issue 5, pp 1 – 6, 2012</td>
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<td>16.</td>
<td>H.-N. Teodorescu, 120 Years with the memoirs of the Scientific Sections of the Romanian Academy. Memoirs of the Scientific Sections of the Romanian Academy, Tome XXXII, 2009, pp. 149-167 (apart 2010)</td>
<td>2010</td>
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<td>22.</td>
<td>Gavril MUSCĂ, Elena MUSCĂ, Vasile MERTICARU, Contributions to Computer Aided Training in CAD, CAM, PLM, in Academic Journal of</td>
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<td>Computational Aspects of Mobile Membranes, Brane Calculi and Mobile Ambients</td>
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<td>O. Agrigoroaiei, B. Aman, G. Ciobanu</td>
<td>Semantics, Causality and Mobility in Membrane Computing</td>
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<td>Time Delays in Membrane Systems and Petri Nets</td>
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<td>G. Ciobanu, R. Horne</td>
<td>A Provenance Tracking Model for Data Update</td>
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<td>MeCBIC 2012: Biologically Inspired Formalisms</td>
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<td>Florin-Teodor Olariu, Veronica Olariu, Marius-Radu Clim, Ramona Luca</td>
<td>Cercetări recente în domeniul informatizării atlaselor lingvistice românești</td>
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<td>D. Cristea</td>
<td>Romanian Linguistic Resources on Very Large Scale</td>
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<td>O. Brudaru, C. Rotaru</td>
<td>Grafting a branch and bound method on a genetic algorithm for balancing I / U-shaped assembly lines</td>
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<td>Sections of the Romanian Academy, Tome XXXIV</td>
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<td>Bruduaru, O., Copaceanu, C., Popovici D, A new hybrid genetic algorithm to &quot;i&quot;-shaped assembly line balancing problem, Matematica, Mecanica Teoretica, Fizica, Tom LIV(LX), Buletinul Institutului Politehnic Iasi, fasc.2, 2010, pp. 23-32</td>
<td>2010 1*2/3 0.66</td>
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<td>O. Brudaru, I. Furdu, Monogrid Cellular Genetic Algorithm for OBDD’s Optimization, Buletinul Institutului Politehnic din Iasi, Tomul LVII (LXI) Fasc. 2, 2011</td>
<td>2011 1*1/2 0.5</td>
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<td>O. Brudaru, C. Copaceanu, Assembly lines balancing with parallel workstations - grafting a greedy method on a genetic algorithm, Scientific Studies and Research Series Mathematics and Informatics &quot;Vasile Alecsandri&quot; University of Bacău, Faculty of Sciences</td>
<td>2011 1*1/2 0.5</td>
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3 Pentru fiecare articol se va lua în calcul factorul de impact (FI) al revistei impărțit la numărul total de autori (Nₐ) și înmulțit cu numărul de autori din institutul/centrul evaluat (Nₑ). Factorul de impact este publicat anual de Web of Knowledge, Journal Citation Report (Thomson Reuters), iar pentru calcul se va utiliza valoarea corespunzătoare anului apariției articolului.

4 Pentru revistele din domeniile: Botanică, Zoologie, Ecologie, Agronomie etc., al căror FI este ≤ 2,0 punctajul total se înmulțește cu 1,5.
30

5. Capacitatea de a atrage fonduri de cercetare (20%)

5.1. Un grant câștigat de către institut/centru de la organizații internaționale

1. PN-II-RU-TE-2012-3-0302 : HUMANDETRAR – Computer vision system for HUMan AuthenticaN, DEtection, TRacking and Action Recognition; Director – Tudor Barbu; Finantare: 200001 - 1000000 EUR. – proiect declarat eligibil, apreciat favorabil de evaluatorii externi, asteapta decizia finala în termen de cateva zile. **Punctaj =8**

5.2. Un grant câștigat de către institut/centru de la organisme naționale

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<tr>
<td>1.</td>
<td>PCNDI2</td>
<td>Capete SONAR bio-mimetice adaptive pentru vehicule autonome, Director proiect: H.N. Teodorescu</td>
<td>2010</td>
<td>24291</td>
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<td>2.</td>
<td>PCNDI2</td>
<td>Capete SONAR bio-mimetice adaptive pentru vehicule autonome, Director proiect: H.N. Teodorescu</td>
<td>2011</td>
<td>36056</td>
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<td>3.</td>
<td>ANCS</td>
<td>PNII - Capacitati - Modul III - Proiect cooperare bilateral cu R.Moldova, MIACSAM, Director proiect: H.N. Teodorescu</td>
<td>2010</td>
<td>1808,71</td>
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<td>4.</td>
<td>ANCS</td>
<td>PNII - Capacitati - Modul III - Proiect cooperare bilateral cu R.Moldova, MIACSAM, Director proiect: H.N. Teodorescu</td>
<td>2011</td>
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<td>5.</td>
<td>ANCS</td>
<td>PNII - Capacitati - Modul III - Proiect cooperare bilateral cu R.Moldova, MIACSAM, Director proiect: H.N. Teodorescu</td>
<td>2012</td>
<td>3028</td>
<td>1</td>
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<td>7.</td>
<td>– PN II – Resurse Umane UEFISCD</td>
<td>PostDoctorala, POSIBILITATI DE PROCESARE A SEMNALELOR MEDICALE BAZATE PE DICTIOMARE SPECIFICE, Director proiect: Monica Fira</td>
<td>2010-2012</td>
<td>255188</td>
<td>3</td>
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<tr>
<td>8.</td>
<td>IDEI PN-II</td>
<td>ID-PCE-2011-3-0919, &quot;Calcule membranar si formalism inspirate din biologie: calculabilitate, complexitate, cauzalitate&quot;, Director proiect: Gabriel Ciobanu</td>
<td>2011</td>
<td>35954; 458700</td>
<td>3</td>
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<td>9.</td>
<td>PNII - Parteneriate în domeniile prioritare - PC, CNMP</td>
<td>eDTLR - Dicționarul Tezaur al Limbii Române în format electronic, Director proiect: H.N. Teodorescu</td>
<td>2010</td>
<td>35321</td>
<td>2</td>
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<tr>
<td>10.</td>
<td>PNII - Parteneriate în domeniile prioritare - PC, CNMP</td>
<td>INTELCHIM-Modelare și conducere automată utilizând instrumente ale inteligenței artificiale pentru aplicații în chimie și inginerie de process, Director proiect: N. Curteanu</td>
<td>2010</td>
<td>2500</td>
<td>1</td>
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<td>11.</td>
<td>PNII-RU-PD, UEFISCSU</td>
<td>Aplicație de interpretare automată a limbajului natural folosind roluri semantice, Director proiect: D. Trandabăț</td>
<td>2011</td>
<td>2500</td>
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<td>12.</td>
<td>PNII-RU-PD, UEFISCSU</td>
<td>Aplicație de interpretare automată a limbajului natural folosind roluri semantice, Director proiect: D. Trandabăț</td>
<td>2012</td>
<td>66700</td>
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</table>
5.3. Un contract extrabugetar obținut de către institut/centru de la organizații internaționale sau naționale

5.4. O manifestare științifică (congres, conferință, simpozion) sau școală de vară internațională organizată de institut

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<td>1</td>
<td>ECIT 2010 - The 6th European Conference on Intelligent Systems and Technologies</td>
<td>October 7-9, 2010</td>
<td>Iași, România</td>
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<td>2</td>
<td>CONSILR 2010- Conferința Internațională &quot;Resurse Lingvistice și Instrumente pentru Prelucrarea Limbii Române&quot;</td>
<td>May 6-7, 2010</td>
<td>București, România</td>
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<td>SOFA 2010 – The 4th International Workshop on Soft Computing and Applications</td>
<td>July 15-17 2010</td>
<td>Arad, România</td>
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<td>EHB 2011- Conference on E-Health and Bioengineering</td>
<td>Nov. 24-26, 2011</td>
<td>Iași, România</td>
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<td>CONSILR 2011- Conferința Internațională &quot;Resurse Lingvistice și Instrumente pentru Prelucrarea Limbii Române&quot;</td>
<td>Dec. 8-9, 2011</td>
<td>București, România</td>
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<td>CONSILR 2012- Conferința Internațională &quot;Resurse Lingvistice și Instrumente pentru Prelucrarea Limbii Române&quot;</td>
<td>26-27 apr 2012</td>
<td>București, România</td>
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5.5. O manifestare științifică (congres, conferință, simpozion) sau școală de vară națională organizată de institut

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<td>1</td>
<td>Simpozionul „Sisteme Inteligente și Aplicații”- SIA 2011</td>
<td>16 sep., 2011</td>
<td>Iași, România</td>
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<td>Workshop &quot;Cooperari interacademice în domeniul informatici între Institutul de Informatică Teoretică al Academiei Române și Institutul de Matematică și Informatică al Academiei Republicii Moldova&quot;</td>
<td>2-5 octembrie 2012</td>
<td>Iași, România</td>
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<td>3</td>
<td>Simpozionul „Sisteme Inteligente și Aplicații”- SIA 2012</td>
<td>19 oct., 2012</td>
<td>Iași, România</td>
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6. Capacitatea de a dezvolta servicii, tehnologii, produse (10%)

6.1. Un brevet acordat
a. la nivel internațional 10
b. la nivel național 5

1. **Instrumente pentru Analiza Limbii Vorbite - Analiv**, înregistrare la ORDA, nr. 11959/06.05.2010, Colectiv de cercetare: Teodorescu H.N., Pavaloi I., Zhancioe M., Feraru M., Pistol L.
2. **Teoria lingvistică și strategia de parsare SCD (Segmentare-Coeziune Dependență) pentru textul general de limbaj natural, de tip narativ**, înregistrare la ORDA, nr. 9135/25.07.2011, Curteanu N.
3. **Modelare lexicografică și strategia de parsare SCD (Segmentare-Coeziune Dependența) pentru textul de limbaj natural al intrărilor în unele dictionare- tezaur din limbile română, franceză, germană și rusă**, înregistrare la ORDA, nr. 9134/25.07.2011, Curteanu N.
5. **Programe de calculator pentru modelarea prin funcții spline și prin interpolatori / extrapolatori fuzzy a atenuării undelor în funcție de lungimea de undă și de vizibilitatea atmosferică –**
Cerere de brevet de inventie la OSIM in curs de desfasurare:
1. Nr. OSIM:A/01218/26.11.2010, Metoda de generare si generator de serii de timp cu perioada mare, prof. dr. ing. Horia-Nicolai Teodorescu m.c.A.R

6.3. Un brevet citat în Web of Science (Thomson Reuters) 5

<table>
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<tr>
<th>Nr.</th>
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<th>Brevet citat</th>
<th>Autori</th>
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<tr>
<td>1</td>
<td>United States Patent 7,811,234, McGrath October 12, 2010</td>
<td>USA 6011477</td>
<td>H.N. Teodorescu</td>
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<tr>
<td></td>
<td>Remote-sensing method and device, Inventors: McGrath; William R. (Monrovia, CA), Assignee: California Institute of Technology (Pasadena, CA)</td>
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<td>Respiration-based prognosis of heart disease, Inventors: Reisfeld; Daniel (Tel Aviv, IL), Assignee: Widemed Ltd. (Herzlia, IL)</td>
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<td>3</td>
<td>United States Patent 7,803,118, Reisfeld, et al. Sept. 28, 2010, Detection of heart failure using a photoplethysmograph, Inventors: Reisfeld; Daniel (Tel Aviv, IL), Sbero; Hila (Tel Aviv, IL)</td>
<td>USA 6011477</td>
<td>H.N. Teodorescu</td>
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<td>Assignee: Widemed Ltd. (Herzlia, IL)</td>
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<td>4</td>
<td>United States Patent 7,794,406, Reisfeld et al. Sept. 14, 2010, Detection of cardiac arrhythmias using a photoplethysmograph, Inventors: Reisfeld; Daniel (Tel Aviv, IL), Kogan; Simon (Nahariya, IL), Assignee: Widemed Ltd. (Herzlia, IL)</td>
<td>USA 6011477</td>
<td>H.N. Teodorescu</td>
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<tr>
<td>5</td>
<td>United States Patent 7,793,882, Reinsel, et al. Sept. 14, 2010, Electronic dispenser for dispensing sheet products, Inventors: Reinsel; Christopher M. (Neenah, WI), Geddes; Daniel J. (Appleton, WI), Kane; William J. (Sutton, MA), Assignee: Georgia-Pacific Consumer Products LP (Atlanta, GA)</td>
<td>USA 5986549</td>
<td>H.N. Teodorescu</td>
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<td>7</td>
<td>United States Patent 7,782,175, Stratmann, August 24, 2010, Switch acting in a contactless fashion, Inventors: Stratmann; Christoph (Essen, DE), Assignee: K.A. Schmersal Holding KG (DE)</td>
<td>USA 5986549</td>
<td>H.N. Teodorescu</td>
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<tr>
<td>8</td>
<td>United States Patent 7,733,233, O'Shea, et al. June 8, 2010, Methods and systems for monitoring position and movement of human beings, Inventors: O'Shea; Michael D. (Neenah, WI), Clement; Gary A. (Menasha, WI), Madsen; Gary F. (Greenvile, WI), Onderko; John C. (Appleton, WI), Mingerink; Corey B. (Appleton, WI), Buss; Scott J. (Appleton, WI), Carey; Brian J. (Neenah, WI), Lindsay; Jeffrey D. (Appleton, WI) Assignee: Kimberly-Clark Worldwide, Inc. (Neenah, WI)</td>
<td>USA 6011477</td>
<td>H.N. Teodorescu</td>
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<tr>
<td>JP), Assignee: Denso Corporation (Kariya, JP)</td>
<td>United States Patent 7,690,259, Bui, et al. April 6, 2010 Integrated ultrasonic inspection probes, systems, and methods for inspection of composite assemblies, Inventors: Bui; Hien T. (Auburn, WA), Young; Fred D. (Bellevue, WA), Lee; Mark A. (Kent, WA), Krotzer; Richard C. (Enumclaw, WA), Uyehara; Clyde T. (Kent, WA), Fetzer; Barry A. (Renton, WA), Assignee: The Boeing Company (Chicago, IL)</td>
<td>USA 5986549</td>
<td>H.N. Teodorescu</td>
</tr>
<tr>
<td>United States Patent 7,674,230, Reisfeld March 9, 2010 Sleep monitoring using a photoplethysmograph, Inventors: Reisfeld; Daniel (Tel Aviv, IL), Assignee: Widemed Ltd. (Herzlia, IL)</td>
<td>USA 6011477</td>
<td>H.N. Teodorescu</td>
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<tr>
<td>United States Patent 7,671,740, Petereit, et al. March 2, 2010 Capacitive transmitter electrode, Inventors: Petereit; Andreas (Schweich, DE), Schlee; Thomas (Trier, DE), Wendt; Christoph (Trier, DE), Huegens; Emmanuel (Arlon, DE), Clos; Harald (Saarbrucken, DE) Assignee: IEE International Electronics &amp; Engineering S.A. (LU)</td>
<td>USA 6011477</td>
<td>H.N. Teodorescu</td>
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<td>United States Patent 7,640,811, Kennedy, et al. January 5, 2010 Ultrasonic inspection apparatus, system, and method, Inventors: Kennedy; James C. (Renton, WA), Little; Mark L. (Auburn, WA), Uyehara; Clyde T. (Kent, WA), Assignee: The Boeing Company (Chicago, IL)</td>
<td>USA 5986549</td>
<td>H.N. Teodorescu</td>
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<td>United States Patent 8,031,080, Price, et al. October 4, 2011, Patient support surface with vital signs sensors, Inventors: Price; James H. (Mount Pleasant, SC), Taylor; Geoffrey Locke (Winnipeg, CA), Thomas; James Milton Cherry (Mt. Pleasant, SC), Stolpmann; James R. (Bakersville, NC), Caldwell; Karl (Summerville, SC), Repik; Marla (Charleston, SC), Bries; Nick (Charleston, SC), Mensching; Perry J. (Mount Pleasant, SC), Assignee: Hill-Rom Services, Inc. (Batesville, IN)</td>
<td>USA 6011477</td>
<td>H.N. Teodorescu</td>
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<td>United States Patent 8,026,729, Kroh, et al. September 27, 2011 System and apparatus for in-vivo assessment of relative position of an implant, Inventors: Kroh; Jason (Villa Rica, GA), Cros; Florent (Decatur, GA), Courcimault; Christophe (Avondale Estates, GA), Assignee: CardioMEMS, Inc. (Atlanta, GA)</td>
<td>USA 5986549</td>
<td>H.N. Teodorescu</td>
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<td>United States Patent 8,160,718, Khodak, et al., April 17, 2012, Method and apparatus for performing warming therapy utilizing matrix heating, Inventors: Khodak; Andrei (Hatfield, PA), Sabota; Peter D. (Warminster,</td>
<td>USA 5986549</td>
<td>H.N. Teodorescu</td>
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<td>PA</td>
<td>Assignee: Draeger Medical Systems, Inc. (Telford, PA)</td>
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<td>27</td>
<td>United States Patent 8,102,269, Boehm , et al. January 24, 2012 Approach warning system for detecting when a person approaches an object, particularly a machine, Inventors: Boehm; Alfred (Viechtach, DE), Binder; Wilhelm (Tiefenbach, DE), Keller; Valeri (Deggendorf, DE) Assignee: Bartec Benke GmbH (Reinbek/Hamburg, DE)</td>
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<td>28</td>
<td>United States Patent 8,094,013, Lee , et al. January 10, 2012, Baby monitoring system, Inventors: Lee; Taek Kyu (La Mirada, CA), Han; Min Soo (Irvine, CA), Appl. No.: 12/415,035</td>
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6.4. Produse și tehnologii rezultate din activități de cercetare bazate pe omologări sau inovații proprii (produs vândut, sume încasate) 6  20
6.5 Un laborator de cercetare-dezvoltare acreditat  20
6.6 Studii de impact și servicii comandate de un beneficiar  5

7. Capacitatea de a pregăti superior tineri cercetatori (doctorat, post-doctorat) (10%)

7.1 Institutul/centrul are dreptul de a conduce doctorate da  20  20
7.2. Conducător de doctorat care activează în institut/centru  2  20  40
Domeniu: Inginerie Electronică și Telecomunicații
- Prof.dr. Horia Nicolai Teodorescu mc.-
Domeniu: Informatică
- CS I dr. Gabriel Ciobanu

7.3. Doctoranzi în cadrul institutului
Domeniu: Inginerie Electronică și Telecomunicații
Conducător: Prof.dr. Horia-Nicolai Teodorescu m.c.A.R.

5. Ioan Păvăloiu, Admis: 01.10.2010, Temă: Contribuții la analiza și clasificarea semnalelor biologice – metode deterministe și statistice
Domeniu: Științe exacte - Informatică,
Conducător: C.S.I dr. Gabriel Ciobanu
6. Cristian Văideanu, Admis: 01.11.2008., Temă: Aspecete metrică și topologice în sisteme distribuite
7. Armand Stefan Rotaru, Admis: 0.1.11.2011, Temă: Modelarea interacțiunii om-calculator folosind algebre de proces.
8. Laura Pistol, admis la doctorat pe data 01.11.2011 în cadrul Universității „Al I. Cuza” din Iași, Coordonatori Prof. dr. Dan Crsitea și Prof. dr. Corneliu Burileanu, Tema: Language Modelin for Large-Vocabulary Continuous Speech Recognition. Application for Romanian

7.4. Un post-doctorand

7.5. Un cercetator angajat în institut/centru care a obținut titlul de doctor in perioada de evaluare

8. Prestigiu științific (toată perioada de activitate) (20%)

8.1. Un membru în colectivul de redacție al unei reviste naționale/internaționale (cotată de Web of Science, Thomson Reuters sau indexată într-o BDI) sau în colectivul editorial al unor edituri internaționale consacrate

Prof. dr. H.N. Teodorescu
1. International Journal of General Systems (ISI), Membri colectiv de redacție
2. Int. Journal of Advanced Intelligence Paradigms, Membri colectiv de redacție
3. Int J. Intelligent Defence Support Systems, Membri colectiv de redacție
4. Journal of Romanian Medical Dentistry , Membri colectiv de redacție
5. ROMJIST, Romanian Journal for Information Science, Romanian Academy, Membri colectiv de redacție
b. Membri în colectivele de redactie ale revistelor recunoscute national (din categoria B în clasaificarea CNCSIS)
7. Fuzzy Systems & AI - Reports and Letters (Academia Romana), Editor principal
8. NOESIS, Academia Romana, Membru colectiv de redactie
9. NOEMA, Academia Romana, Membru colectiv de redactie
10. Memoirs of the Scientific Sections of the Romanian Academy, Academia Romana, Editor principal
11. Buletinul Institutului Politehnic Iasi, Membru colectiv de redactie
12. Computer Science Journal of Moldavia, Membru colectiv de redactie
13. Computer Science Journal of Moldavia, Membru colectiv de avizare
14. Scientific Annals of Computer Science, Membru în colectivul de conducere
15. Acta Technica Napocensis, Membru colectiv de redactie
16. Acta Technica Napocensis, Membru colectiv de redactie

CS I Gabriel Ciobanu –
17. Editor Scientific Annals of Computer Science, indexata DBLP,
18. membru în colectivul de redactie ROMJIST, cotata ISI,
19. membru în colectivul de redactie Computer Science Journal of Moldova, indexata DBLP,

CS II Hariton Costin
22. Egyptian Computer Science Journal, ECSJ. http://elear n.shams.edu.eg/ecs, Cairo, Egypt, with impact factor on http://arnetminer.org/

8.3. Un membru al Academiei Române
- Prof. dr. Horia Nicolai Teodorescu 20 puncte

8.4. Un cercetător cu un indice Hirsch peste 8
1. prof. dr H.N. Teodorescu  h-index>8
2. CS I Gabriel Ciobanu – h-index > 8
3. prof. dr. Liviu Goraş –h+index>8

8.5. Un membru de onoare (fellow, senior) al unei societăţi ştiinţifice naţionale/internaţionale
1. HN Teodorescu, IEEE Senior member

8.7. Un premiu (distincţie) al unei societăţi ştiinţifice naţionale obţinut printr-un proces de selecţie
2. Diploma of Honour - The XV-th International Exhibition of Research, Innovation and Technological Transfer - INVENTICA 2011, Iasi, Romania, 8-10 June 2011, Generating Method and Generator for Time Series with Long Periods, Author(s): Horia-Nicolai Teodorescu
3. Diploma & Gold Medal "Henri Coanda" - The XV-th International Exhibition of Research, Innovation and Technological Transfer - INVENTICA 2011, Iasi, Romania, 8-10 June 2011, A tool of the statistical, parameters extraction from emotional sounds for romanian language, Author(s): Marius Zbancioc, Monica Feraru
May 2011 , Author(s): M. Zbancioc, M. Feraru, H.N. Teodorescu, V. Apopei, S. Bejinariu, R. Luca, C. Bulancea, M. Roman
5. Special Diploma and Scientific Order LEONARDO DA VINCI for the promotion of creativity - EUROINVENT, 14 May 2011, Author(s): Horia-Nicolai Teodorescu
6. Diploma & Gold Medal - EUROINVENT, 14 May 2011, Generating Method and Generator for Time Series with Long Periods, Author(s): Horia-Nicolai Teodorescu
7. GRAND PRIZE of Technical University of Moldova, Generating method and generator for time series with long periods, Author(s): Horia Nicolai Teodorescu, 2011
8. Diploma - Universitatea de Stat de Medicina si Farmacie "Nicolae Tesmitanu", Metoda de generare si generatoare pentru semnale perioadice cu perioada foarte mare, Author(s): Horia-Nicolai Teodorescu, 2011
<table>
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<tr>
<th>Title</th>
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<tr>
<td>POSITIE AND MOVEMENT RESONANT SENSOR</td>
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<tr>
<td>HN TEODORESCU</td>
<td>1999</td>
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<td>WO Patent WO 1999/005,476</td>
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<tr>
<td>Soft computing in Human-related Sciences</td>
<td></td>
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<td>HN Teodorescu, A Kandel, LC Jain, CRC</td>
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<td>Intelligent systems and technologies in rehabilitation engineering</td>
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<tr>
<td>HN Teodorescu</td>
<td>2001</td>
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<td>CRC</td>
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<tr>
<td>Fuzzy methods in tremor assessment, prediction, and rehabilitation</td>
<td></td>
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<tr>
<td>HNL Teodorescu, M Chelaru, A Kandel, I Tofan, M Irimia</td>
<td>2001</td>
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<td>Artificial Intelligence in Medicine 21 (1-3), 107-130</td>
<td></td>
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<tr>
<td>Hardware implementation of intelligent systems</td>
<td></td>
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<tr>
<td>HN Teodorescu, LC Jain, A Kandel, Springer</td>
<td>2001</td>
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<tr>
<td>A fuzzy information space approach to speech signal non-linear analysis</td>
<td></td>
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<tr>
<td>W Rodriguez, HN Teodorescu, F Grigoras, A Kandel, H Bunke</td>
<td>2000</td>
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<tr>
<td>International journal of intelligent systems 15 (4), 343-363</td>
<td></td>
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<tr>
<td>A study on Speech with Manifest Emotions</td>
<td>2007</td>
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10/22/2012
Director
Prof. dr. H. N. Teodorescu, m. c.

Secretar științific,
CS III dr. Vasile Apopei