

Universitatea *Transilvania* din Braşov
Facultatea de Matematica si Informatica
Departamentul de Matematica si Informatica

Poz. postului 13

Disciplinele postului Baze de date, Limbaje formale, Programare Distribuita

FIŞA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE NATIONALE
Conform Grilei de Evaluare a Comisiei CNATDCU Panelul de Informatica

Profesor Universitar poziția 13

publicat în Monitorul Oficial al României nr.571 din data de 10.05.2016

Candidat: Tabirca Marius Sabin

Data naşterii 2 Iunie 1965

Funcția actuală Senior Lecturer

Instituția University College Cork

Verificarea Standardelor Minimale in Conformitate cu Legea O.M.E.C.T.S. 6560

Criteriu	Standard Minimal	Total Punctaj
Etica Cercetarii		
Productia Stiintifica	56 puncte, din care 24 puncte din lucrări de categoria A și 16 puncte din lucrări de cel puțin categoria B.	91 puncte, din care 32 puncte din lucrari categoria A si 20 puncte din lucrari de categoria B. [Lista de articole atasata mai jos]
Impactul Rezultatelor	120, din care 40 de puncte în forumuri de minim tip B	178 puncte, din care 96 de puncte din lucrari de categoria A sau B. [Lista de citati atasata mai jos]
Performanta Academica	60 puncte	108 puncte [Lista de contributi atasata mai jos]

Director de departament,

Candidat,

Lista de Publicatii

Total Punctaj ➔ 91 puncte [necesar 56 puncte]

Criterii Minimale

Articole de tip A ➔ 32 puncte [necesar 24 puncte]

Articole de tip B ➔ 20 puncte [necesar 16 puncte]

Articol	Categorie	Score
1. T.Vagg, B.J. Plant and S. Tabirca , A General mHealth Design Pipeline, The 14 th International Conference on Advances in Mobile Computing & Multimedia (MoMM2016), Singapore, November 2016. [Proceeding will be published in November 2016]	B (C245)	4
2. Y. Tan, S. Tabirca, B.J. Plant and T. Vagg, Using a Mobile Game Application to Monitor Well-Being Data for Patients with Cystic Fibrosis , The 14 th International Conference on Advances in Mobile Computing & Multimedia (MoMM2016), Singapore, November 2016. [Proceeding will be published in November 2016]	B (C245)	2
3. Foley, N.M., Connolly, G., Tabirca, S. , Maher, B. and Corrigan, M.A., 2015, January. PATI: Patient Accessed Tailored Information. In <i>BRITISH JOURNAL OF SURGERY</i> (Vol. 102, pp. 19-19). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY-BLACKWELL.	A	2.66
4. Connell, E. O., J. Pegler, E. Lehane, N. McCarthy, L. Sahm, S. Tabirca , A. O. Driscoll, and M. Corrigan. "The application of NFC technology to enhance experiential learning and directly improve safety in surgical patients." In <i>BRITISH JOURNAL OF SURGERY</i> , vol. 102, pp. 32-32. 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY-BLACKWELL, 2015.	A	1.33
5. C. Costigan, J.Coulter, S. Tabirca , Logarithmic Modelling of hCG Marker in Women with Gestational Trophoblastic Disease, Accepted for International Journal of Simulation: Systems, Science and Technology, 2016.	C (J809)	2
6. T. Vagg, B.J. Plant, S. Tabirca , A Multi-Platform Interactive 3D Educational Application for Bronchoscopy & Bronchial Anatomy, e-Proceedings of the 2015 Workshop on Interactive Medical Image Computing (IMIC), 18th International Conference on Medical Image Computing and Computer Assisted Interventions (2016 MICCAI), Munich, 2015.	A (C282)	4
7. S.Tabirca, L.T. Yang, T. Tabirca (2015) Fire Hazard Safety Optimization, Procedia Computer Science, Volume 51, 2015, International Conference On Computational Science, ICCS 2015. Pages 2759–2763.	A (C185)	8
8. Tatiana Tabirca, Laurence Yang, Sabin Tabirca, Smallest Number of Sensors for k-Covering, Proceedings of the 2012 International Conference on Computer, Communication and Control, Published in International Journal of Computation and Communication, Oradea, May 2012, pp. 312-319.	C (J736)	2
9. Tatiana Tabirca, Laurence Yang, Sabin Tabirca, Centrality Indices Computation in Dynamic Networks, The 12th IEEE International Conference on Computer and Information Technology (CIT 2012), October 2012. Chengdu, Sichuan, China. Indexed in: DBLP, IEEE, ACM	C (C428)	2
10. Razvan Bocu, Sabin Tabirca, The Flag-based Algorithm - A Novel Greedy Method that Optimizes Protein Communities Detection, Int. J. of Computers, Communications & Control, ISSN 1841-9836, E-ISSN 1841-9844, Vol. VI (2011), No. 1, pp. 20-31 Indexed in: ISI	C (J736)	2
11. Xuefeng Gao, Mark Tangney and Sabin Tabirca, Computational	C	2

- Visualization of Tumor Virotherapy, Proceedings of the XII Mediterranean Conference on Medical and Biological Engineering and Computing, Springer Vol 29, May 2010, Halkidiki, Greece, pp. 224-227. (Springer)
12. M. Paltanea, S. Tabirca, Y. J Chen and Mark Tangney, Cancer Prediction Modelling for Volumetric Data, in Proceedings of 11th Symposium on Symbolic and Numerical Algorithms for Scientific Problems, Timisoara, September 2009, pp. Indexed in: IEEE, ACM, DBLP (C634) C 1
 13. Y. Chen, M. Tangney, R. Bocu, S. Tabirca, 3D Modelling of Complex Cancer Systems, Proceedings of the International Conference on Complex Systems, Springer, Shanghai, Feb 2009. pp 1750-1760. (C416) C 1
 14. Daniel Doolan, Sabin Tabirca, MMPI a Message Passing Interface for the Mobile Environment , The 6th International Conference on Advances in Mobile Computing & Multimedia (MoMM2008), Linz, November 2008, pp. 317-321. (C245) B 4
 15. D.Doolan, S.Tabirca, Examination of Fault Tolerance in MMPI, International Conference on Computers Communications and Control, Baile Felix Spa - Oradea, Romania, 15th to 17th May 2008, pp126-131. Indexed in: ISI (J736) C 2
 16. X. Dai , S Tabirca and E. Lenihan, KEES: A Practical ICT Solution for Rural Areas, Computer and Computing Technologies in Agriculture II, Volume 3, Springer, pp. 1817-1824. Indexed in: ISI (Springer) C 2
 17. D.Doolan, S. Tabirca, L. T. Yang, Multiuser Mobile Multimedia, IEEE International Symposium on Multimedia 2007 (ISM2007), Taichung, Taiwan, R.O.C., 10th to 12th December 2007, pp 326-335. Indexed in: ISI, IEEE, ACM (C294) C 2
 18. K. Duggan, D.Doolan, S. Tabirca, L.T. Yang, Single to Multiplayer Bluetooth Gaming Framework, 6th International Symposium on Parallel and Distributed Computing (ISPDC), Hagenberg, Austria, 5th to 8th July 2007, pp 343-349. Indexed in: DBLP, ISI, IEEE, ACM. (C629) C 1
 19. D.Doolan, S. Tabirca, Bluetooth Gaming with the Mobile Message Passing Interface (MMPI), The 1st Joint Workshop on Wireless Ubiquitous Computing (WUC 2007), 9th International Conference on Enterprise Information Systems, Funchal, Madeira - Portugal, 12th to 13th June 2007, pp 74-85. (C455) C 2
 20. T. Tabirca, S. Tabirca and L. T. Yang (2006) An $O(\log p)$ Algorithm of the Discrete FGDLS Method, Proceedings of AINA 2006, April 2006, Viena, pp 321-326. Indexed in: DBLP, ACM. IEEE, ISI (C243) B 4
 21. S.Tabirca, T.Tabirca, L. Yang, L. Freeman (2006) Feedback Guided Dynamic Integral Partition, Proceedings of the 5th International Symposium on Parallel and Distributed Computing (ISPDC06), Timisoara, July, 2006, pp. Indexed in: DBLP, ACM, ISI, IEEE (C629) C 1
 22. D.Doolan, S.Tabirca (2006) Mobile Parallel Computing, Proceedings of the 5th International Symposium on Parallel and Distributed Computing (ISPDC06), Timisoara, July, 2006, pp. Indexed in: DBLP, ACM, ISI, DBLP (C629) C 2
 23. S.Tabirca, T.Tabirca, L.Yang (2005) Convergence of the Discrete FGDLS Algorithm, Proceedings of the 2005 International Conference on High Performance Computing and Communications, Naples, Italy, September 2005, LNCS , pp. 233-244. Indexed in: DBLP, ISI (C172) B 4

- | | | | |
|-----|---|-------------|---|
| 24. | S. Tabirca, T. Tabirca and L. T. Yang (2006) A convergence study of the discrete FGDLS algorithm, IEICE Transactions on Information and Systems, 2006, vol. E89D, Nr.2, pp.673-678. (Selected from HPCC 2005). Indexed in: DBLP, ACM | C
(J669) | 2 |
| 25. | T. Tabirca, S. Tabirca, L. Freeman and L. T. Yang (2005) Applying the feedback guided dynamic loop scheduling method for the shortest path problem, Parallel Processing Letters, 2005, Vol.15, No.4, pp.491-498. [article selected in this special issue from PDPTA'02] | C
(J736) | 2 |
| 26. | S.Tabirca, T.Tabirca, L.T.Yang and L.Freeman (2004) Evaluation of Feedback Dynamic Loop Scheduling Algorithms, IEICE Trans. Inf & Syst., vol E87-D, no7, July 2004, pp. 1829-1833. Indexed in: DBLP, ISI | C
(J669) | 1 |
| 27. | T.Tabirca, L.Freeman, S.Tabirca and L.T.Yang (2004) Feedback Dynamic Loop Scheduling; Convergence of the Continuous Case, Journal of Supercomputing, , vol 30, October 2004, pp. 151-178. Indexed in: DBLP, ACM, ISI, Zentrallblat | C
(J931) | 1 |
| 28. | S.Tabirca, K.Reynolds, T.Tabirca and L.T.Yang (2004) Calculating the Smarandache Function in Parallel, Proceedings of the 3rd International Symposium on Parallel and Distributed Computing, July 2004, Cork, Ireland. | C
(C629) | 1 |
| 29. | T.Tabirca, L. Freeman, S.Tabirca, L.T. Yang (2003) An $O(p+\log p)$ Algorithm for the Discrete FDGLS, Proceedings of The 2003 International Conference on Parallel Processing, ICPP-HPSECA 2003, Taiwan, pp. Indexed in: DBLP, ACM | A
(C221) | 4 |
| 30. | T.Tabirca, S.Tabirca, L. Freeman, L.T. Yang (2003) Static Workload Balance Scheduling Algorithm; Continuous Case, Proceedings of The 17th International Parallel and Distributed Processing Symposium, IPDPS-PDSECA 2003, Nice, France, pp. Indexed in: DBLP, IEEE, Zentrallblat | A
(C140) | 4 |
| 31. | S.Tabirca and A.Amke(2003) Imaging Technologies in Java, Proceedings of 2nd International Conference on the Principles and Practice of Programming in Java, PPPJ 2003, Kilkenny, Ireland, pp. Indexed in: DBLP, ACM | C
(C810) | 2 |
| 32. | T.Tabirca, L Freeman, S.Tabirca, T. Yang, A Static Workload Balance Scheduling Algorithm, Proceedings of The 2 nd Workshop on Parallel and Distributed Scientific and Engineering Computing with Applications (PDSECA 2002), International Conference on Parallel Processing, San Francisco, USA. Indexed in: DBLP, ACM, IEEE, ISI, MathSciNet | A
(C221) | 4 |
| 33. | T.Tabirca, S.Tabirca, L Freeman, T. Yang, Feedback Guided Dynamic Loop Scheduling; A Theoretical Approach, Proceedings of The 3 rd Workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA 2002), International Conference on Parallel Processing, 2002, Valencia, Spain. Indexed in: DBLP, IEEE, ISI | A
(C221) | 4 |
| 34. | Tabirca, T., Freeman, L., Tabirca, S. and Yang, L. T. (2002) An Application of Feedback Guided Dynamic Loop Scheduling to the Shortest Path Problem, | B
(C315) | 2 |

In Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'02) , ed. H.R.Arabnia, CSREA Press, Bogart, Georgia, pp. 1786 – 1789, ISBN 1-892512-91-2.		
35. Tabirca, T., Freeman, L. and Tabirca, S (2002) A Convergence Proof of FGDLS When the Workload is Monotone , In Proceedings International Symposium on Parallel and Distributed Computing , ed. D. Grigoras, Alexandru Ioan Cruza University Press, Iasi, pp. 132 - 141. Indexed in: DBLP, MathSciNet, Zentrallblat	C (C629)	2
36. Tabirca, T., Freeman, L. and Tabirca, S. (2002) A Theoretical Application of Feedback Guided Dynamic Loop Scheduling , In Proceedings of the NATO Advanced Research Workshop on Advanced Environments, Tools and Applications for Cluster Computing, ed. D. Grigoras, A. Nicolau, B. Toursel and B. Folliot, Lecture Notes in Computer Science, vol. 2326, pp. 287 - 292, Springer-Verlag, Berlin ISBN 3-540-43672-3. Indexed in: ISI	C (Springer)	2
37. Tabirca, T., Freeman, L. and Tabirca, S. (2002), An $O(\log p)$ Parallel Algorithm for Feedback Guided Dynamic Loop Scheduling, Parallel Algorithms and Applications currently known as International Journal of Parallel, Emergent and Distributed Systems (from 2005), 17, pp. 157 – 164. ISSN 1063-7192. Indexed in: DBLP, Zentrallblat	C (J798)	2
38.	Total	90.99

Nota: In coloana “Categorie” am inclus categoria publicatie si referinta din lista de conferinte (C) sau jurnale(J).

Lista de Citatii

Total punctaj ➔ 178 puncte [necesar 120 puncte]

Criterii minimale ➔ Articole de tip A sau B - 96 puncte [necesar 40 puncte]

Nota: Au fost incluse doar o parte din citari fiind excluse articolele matematice sau cu un continut preponderant medical.

1. T.Tabirca, S.Tabirca, L Freeman, T. Yang, Feedback Guided Dynamic Loop Scheduling; A Theoretical Approach, Proceedings of The 3rd Workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA 2001), 2001, Valencia, Spain. 4.0

Indexed in: DBLP, IEEE, ISI.

1.1	R.L.Carino, I. Banicescu, A dynamic load balancing tool for one and two dimensional parallel loops, The 5th 2006 ISPDC Proceedings, pp.107-114.	C	2
1.2	R.L.Carino, I. Banicescu, A tool for A two-level dynamic load balancing strategy in scientific applications, Scalable Computing: Practice and Experience, 2001.	D	1
1.3	D. Wangerin, Predictive Adaptive Parallelism, PhD Dissertation, University of California, Irvine, 2006.	D	1
1.4	A. Kejariwal, A. Nicolau, C.D. Polychronopoulos, Enhanced Loop Coalescing: A Compiler Technique for Transforming Non-uniform Iteration Spaces, Springer Lecture Notes in Computer Science Volume 4759, 2008, pp 17-32.	C	2
1.5	J Li, J Zhang, The performance analysis and research of sorting algorithm based on OpenMP, Multimedia Technology (ICMT), 2011, pp. 3281-3284.	D	1
	D. Wangerin, PhD Thesis, University of California, Irvine, 2006.	D	1

2. D.Doolan, S.Tabirca (2006) Mobile Parallel Computing, Proceedings of the 5th International Symposium on Parallel and Distributed Computing (ISPDC06), Timisoara, July, 2006, pp. 10

Indexed in: DBLP, ACM, ISI, DBLP

2.1	E Kanjo, E Platzer, C Kittl, ViralNet: a way to make short-range messages instantly viral, Proceedings of the 2012 ICICS International Conference, 2012.	B	4
2.2	E Kanjo, E Platzer, C Kittl, Viral Message Passing Framework for Crowd and Sensor Applications, Networked Digital Technologies, Springer CCIS, Volume 294, 2012, pp 24-33.	C	2
2.3	N Fernando, SW Loke, W Rahayu, Computing with Nearby Mobile Devices: a Work Sharing Algorithm for Mobile Edge-Clouds, IEEE Transactions on Cloud Computing (Volume:PP, Issue: 99)	B	4

3. B. Donegan, D.Doolan, S. Tabirca, Mobile Message Passing using a Scatternet Framework, 20

Indexed in: ISI.

3.1	E. Kanjo, Tools and architectural support for mobile phones based crowd control systems, Network Protocols and Algorithms, 2012.	D	1
3.2	RS Gohs, SR Gunnarsson, Beddernet: application-level platform-agnostic MANETs, Distributed Applications and Interoperable Systems, LNCS Volume 6723, 2011, pp 165-178.	C	2
3.3	C.Kong, C.Wu, C. Li, SMS SMS: Collaborative SS treaming in MM obile SS ocial Networks, Networking, 2011.	C	2
3.4	E Kanjo, E Platzer, C Kittl, ViralNet: a way to make short-range messages instantly viral, Proceedings of the 2012 ICICS International Conference, 2012.	B	4
3.5	C. Wong, Collaborative streaming in mobile social networks, Communications 2006.	D	1
3.6	M Methfessel, S Lange, R Kraemer, M Zessack, Real-Life Deployment of Bluetooth Scatternets for Wireless Sensor Networks, Real-World Wireless Sensor Networks, Springer Lecture Notes in Electrical Engineering Volume 281, 2014, pp 43-51.	C	2
3.7.	João Rodrigues, Joaquim Silva, Rolando Martins , Luís Lopes, Utsav Dro lia, Priya Narasimhan,Fernando Silva, Benchmarking Wireless Protocols for Feasibility in Supporting Crowdsourced Mobile Computing, Distributed Applications and Interoperable Systems, Volume 9687, Lecture Notes in Computer Science pp 96-108, 2016	B	4
3.8	Yi Xue , Ralph Deters, Towards horizontally scalable apps, Resource sharing in the mobile cloud with CoAP, Journal of Ambient Intelligence and Humanized Computing pp 1-9, 2016	B	4

4. Daniel Doolan, Sabin Tabirca, MMPI a Message Passing Interface for the Mobile Environment , The 6th International Conference on Advances in Mobile Computing & Multimedia (MoMM2008), Linz, November 2008, pp. 317-321.

48

Indexed in: DBLP, ACM

4.1	N Fernando, SW Loke, W Rahayu, Mobile Cloud Computing; A Survey, Future Generation Computer Systems, 2013.	A	8
4.2	N Fernando, SW Loke, Dynamic mobile cloud computing: Ad hoc and opportunistic job sharing, International Conference on Utility and Cloud Computing (UCC), 2011, pp 281 – 286.	D	1
4.3	N Fernando, SW Loke, Mobile crowd computing with work stealing, International Conference on Network-Based Information Systems (NBIS), 2012, pp. 660 – 665.	D	1

4.4	VS Jagtap, KV Pawar, AR Pathak, Augmented Execution in Mobile Cloud Computing: A Survey, 2014 International Conference Electronic Systems, Signal Processing and Computing Technologies (ICESC), pp. 237 – 244, 2014	D	1
4.5	DB Abdullah, MM Al-Hafidh, The True Powers of Multi-core Smartphones, IJCSI International Journal of Computer Science Issues, Vol. 10, Issue 4, No 2, July 2013, pp 303-308, 2013.	D	1
4.6	N Fernando, SW Loke, Honeybee: A Programming Framework for Mobile Crowd Computing, Mobile and Ubiquitous Systems, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering Volume 120, 2013, pp 224-236	A	8
4.7	DB Abdullah, MM Al-Hafidh, Developing Parallel Application on Multi-core Mobile Phone, (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 4, No. 11, 2013.	D	1
4.8	N Fernando, SW Loke, W Rahayu, Computing with Nearby Mobile Devices: a Work Sharing Algorithm for Mobile Edge-Clouds, IEEE Transactions on Cloud Computing (Volume:PP , Issue: 99)	B	4
4.9	João Rodrigues, Joaquim Silva, Rolando Martins, Luís Lopes,, Benchmarking Wireless Protocols for Feasibility in Supporting Crowdsourced Mobile Computing, Lecture Notes in Computer Science Volume 9687 2016, pp9. 6-108	B	4
4.10	Niroshinie Fernando, Seng Wai Loke, Wenny Rahayu, Dynamic Mobile Cloud Computing: Ad Hoc and Opportunistic Job Sharing, IEEE 4th International Conference on Utility and Cloud Computing, UCC 2011, Melbourne, Australia, December 5-8, 2011.	D	1
4.11	Abdullah Gani, Golam Mokatder Nayeem, Muhammad Shiraz,, A review on interworking and mobility Techniques for seamless connectivity In Mobile Cloud Computing, Journal of Network and Computer Applications, August 2014, pp	D	1
4.12	J Rodrigues, J Silva, R Martins, L Lopes, Benchmarking Wireless Protocols for Feasibility in Supporting Crowdsourced Mobile Computing, Proceedings of the 6th International Conference on Advances in Mobile Computing and Multimedia, MoMM 2008, pp. 317–321, 2015.	B	4
4.13	T Zheng, S Dong, Terminal Virtualization for Mobile Services, ICNS 2015: The Eleventh International Conference on Networking and Services, 2015.	D	1
4.14	S Deng, L Huang, Y Li, H Zhou, Z Wu, X Cao , Toward Risk Reduction for Mobile Service Composition, IEEE Transactions on Cybernetics (Volume:PP , Issue: 99), pp. 1-7.	A	8
4.15	X Lin, J Jiang, B Li, B Li, Circa: Offloading collaboratively in the same vicinity with iBeacons, 2015 IEEE International Conference on Communications (ICC), pp. 3751 – 3756.	B	4

Scheduling, Smarandache Notions Journal 12 (1-2), 2000, pp.35-46.

5.1	JL Su, Z Ouyang, Y Chen, Research on agile infrastructure for collaborative manufacturing and agile supply chain, 2008 IEEE Conference on Robotics, Automation, pp. 504 – 508, 2008.	B	4
5.2	JL Su, Z Ouyang, Y Chen, The design of Agile Infrastructure for Manufacturing System in Garment Industry, 7 th World Congress on Intelligent Control and Automation, 2008, pp. 4895 – 4900.	D	1
5.3	JL Su, Z Ouyang, Y Chen, Design of agile infrastructure for manufacturing system with FNN based web-enabled technology solutions, Seventh International Conference on Intelligent Systems Design and Applications, ISDA 2007, pp. 79 – 83.	C	2
5.4	JL Su, Balance Scheduling Model Based FNN in Integrated Infrastructure for Agile Enterprise, Advances in Technology and Management, Springer Advances in Intelligent and Soft Computing, Springer Volume 165, 2012, pp 757-764.	C	2
5.5	JL Su, Equilibrium Discriminance Theories' Application in Integrated Infrastructure for Agile Enterprise, Advances in Technology and Management, Springer Advances in Intelligent and Soft Computing Volume 165, 2012, pp 765-773.	C	2

6. T.Tabirca, L.Freeman, S.Tabirca and L.T.Yang (2004) Feedback Dynamic Loop Scheduling; 8
Convergence of the Continuous Case, Journal of Supercomputing, , vol 30, October 2004, pp. 151-178.

Indexed in: DBLP, ACM, ISI, Zentrallblat

6.1	IJ Dooley, Intelligent runtime tuning of parallel applications with control points, PhD Thesis, University of Illinois at Urbana-Champaign, 2011.	D	1
6.2	Y Wang, W Ji, F Shi, Q Zuo, N Deng, Knowledge-Based Adaptive Self-Scheduling, Network and Parallel Computing Lecture Notes in Computer Science Volume 7513, 2012, pp 22-32.	C	2
6.3	D. Wangerin, Predictive Adaptive Parallelism, PhD Dissertation, University of California, Irvine, 2006.	D	1
6.4	Y Wang, L.A Beni, A. Nicolau, A.V. Veidenbaum, R. Cammarota, A Compilation and Run-Time Framework for Maximizing Performance of Self-scheduling Algorithms, Network and Parallel Computing, Lecture Notes in Computer Science Volume 8707, 2014, pp 459-470.	C	2
6.5	J Meng, J Yuan, J Cheng, Y Wei, S Feng, DGraph: Algorithms for Shotgun Reads Assembly Using De Bruijn Graph, Network and Parallel Computing, Lecture Notes in Computer Science Volume 7513, 2012, pp 14-21.	C	2

7. S.Tabirca, T.Tabirca, L. Freeman, L.T. Yang (2003) A Static Scheduling Algorithm for Workload 1.5
Balancing, Information: International Journal, Vol. 6, No.3, pag 218-229, III Press, Japan.

7.1	X Yang, M Mao, X Wang, Data Based Application Partitioning and Workload Balance in Distributed Environment, 2006 International Conference on Software Engineering Advances, pp. 43-48.	C	2
7.2	Distributed Model based on Data Partition and Load Balance Algorithm, Journal of Zheiang University, Vol 42, Nr 2, 2008.	D	1

8. D. Power S.Tabirca, T.Tabirca A Java Concurrent Program for the Smarandache's function, 10 Smarandache Notions Journal, Vol.13, No.1-2-3, 2002, pp.72-84, ISSN 1084-2810.
Indexed in: MathSciNet

8.1	N Shekhar, P Kalla, F Enescu, Equivalence verification of arithmetic datapaths with multiple word-length operands, Proceedings of Design, Automation and Test in Europe, 2006. DATE '06, 2006.	B	4
8.2	S Gopalakrishnan, P Kalla, Optimization of polynomial datapaths using finite ring algebra, ACM Transactions on Design Automation of Electronic Systems, Volume 12 Issue 4, September 2007.	B	4
8.3	S Gopalakrishnan,, P Kalla, F Enescu, Optimization of Arithmetic Datapaths with Finite Word-Length Operands, . Asia and South Pacific Conference on Design Automation Conference, 2007, pp. 511 – 516.	C	2

9. Xuefeng Gao, Sabin Tabirca, Mark Tangney, A Multiscale Model for Hypoxia-induced Avascular 8 Tumor Growth, Proceedings of 2011 International Conference on Bioscience, Biochemistry and Bioinformatics, February 2011, Singapore, pp 53-58.

9.1	M Papadogiorgaki, M Zervakis, Visualization and modeling of cancer progression, 2013 IEEE International Conference on Imaging Systems and Techniques (IST), 2013, pp. 106 – 111.	D	1
9.2	M Papadogiorgaki, P Koliou, X Kotsiakis, Mathematical modelling of spatio-temporal glioma evolution, Theoretical Biology and Medical Modelling 2013, pp. 10-47	C	2
9.3	M Papadogiorgaki, X Kotsiakis, A Glycolysis-Based In Silico Model for the Solid Tumor Growth, IEEE Journal of Biomedical and Health Informatics, Vol 9, Issue 3, pp.1109-1117.	B	4
9.4	W.Xie, Mechanism of activation of the quiescence-specific p20K gene, PhD Thesis, McMaster University, 2014.	D	1

10. X Dai, S Tabirca, A Theoretical Multimedia Synchronization Framework for E-Learning System, 3 INFORMATION-YAMAGUCHI, 10 (2), 2007, pp. 225-230.

10.1	L Rai, N Sun, F Liu, Jess based On-demand Multimedia Player with Data Retrieval and Streaming Service, 2013 Seventh International Conference on Image and Graphics (ICIG), 2013, pp 628 – 633.	C	2
10.2	MJA Al-Shaeer, EH Salih, Multimedia Synchronization Protocol Dedicated for Virtual Classrooms over Narrowband networks, Computer Engineering and Intelligent Systems, Vol 4 (13)	D	1

11. X.Dai, S.Tabirca and E.Lenihan (2006) JAS – An E-Learning Tool for Building Multimedia Presentations, Proceedings of the IEEE International Symposium on Computer Graphics and Visualisation, China, June 2006, pp 743 - 746. 10

Indexed in: DBLP, ACM, IEEE, ISI

11.1	R Asnawi, WF Wan Ahmad, DR Awang Rambli, Robust synchronization models for Presentation System using SMIL-driven approach, Computers & Education, (1), January 2013, pp. 273–287.	A	8
11.2	R Asnawi, WF Wan Ahmad, DR Awang Rambli, A study on the leveraging categorization of multimedia presentation, National Postgraduate Conference, 2011, pp.1-6.	D	1
12.3	DIB Meixner, Annotated Interactive Non-linear Video, PhD Thesis, University of Passau, 2014.	D	1

12. S.Tabirca, T.Tabirca, L.Yang (2005) Convergence of the Discrete FGDLS Algorithm, Proceedings of the 2005 International Conference on High Performance Computing and Communications, Naples, Italy, September 2005, LNCS , pp. 233-244. 6

Indexed in: DBLP, ISI

12.1	WC Shih, CT Yang, SS Tseng, A performance-based parallel loop scheduling on grid environments, The Journal of Supercomputing, 2007, Volume 41, Issue 3, pp 247-267.	C	2
12.2	CC Wu, CT Yang, KC Lai, PH Chiu, Designing parallel loop self-scheduling schemes using the hybrid MPI and OpenMP programming model for multi-core grid systems, The Journal of Supercomputing, 2012, Volume 59, Issue 1, pp 42-60.	C	2
12.3	WC Shih, CT Yang, TT Chen, SS Tseng, Performance-based workload distribution on grid environments, Advances in Grid and Pervasive Computing, Lecture Notes in Computer Science Volume 4459, 2007, pp 385-396.	C	2

13. M. Paltanea, S. Tabirca, Y. J Chen and Mark Tangney, Cancer Prediction Modelling for Volumetric Data, in Proceedings of 111th Symposium on Symbolic and Numerical Algorithms for Scientific Problems, Timisoara, September 2009, pp. 1.5

Indexed in: IEEE, ACM, DBLP

13.1	M Papadogiorgaki, P Koliou, X Kotsiakis, Mathematical modelling of spatio-temporal glioma evolution, Theoretical Biology and Medical Modelling 2013, 10:47.	C	2
13.2	A Belfatto, M Garbey, M Riboldi, Modeling cervix cancer growth and response to radiation therapy: A validation study using patient volumetric tumor data, 2014 IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI), 2014, pp. 476 – 479.	D	1

14. T. Tabirca, S. Tabirca and L. T. Yang (2006) An $O(\log p)$ Algorithm of the Discrete FGDLs Method, Proceedings of AINA 2006, April 2006, Viena, pp 321-326. 16

Indexed in: DBLP, ACM, IEEE, ISI

14.1	Y Han, AT Chronopoulos, Distributed Loop Scheduling Schemes for Cloud Systems, 2013 IEEE 27th International Parallel and Distributed Processing Symposium, 2013 pp. 955 - 962	A	8
14.2	Y Han, AT Chronopoulos, Scalable Loop Self-Scheduling Schemes Implemented on Large-Scale Clusters, 2013 IEEE 27th International Parallel and Distributed Processing Symposium, 2013	A	8

15. S.Tabirca, T.Tabirca, L. Freeman, L.T. Yang (2003) A Static Scheduling Algorithm for Workload Balancing, Information: International Journal, Vol. 6, No.3, pag 218-229, III Press, Japan. 4

15.1	Z Wang, H Chen, Y Fu, D Liu, Y Ban, Workload balancing and adaptive resource management for the swift storage system on cloud, Future Generation Computer Systems, 2014, [in Press].	A	8
------	--	---	---

16. Yin Jie Chen, Sabin Tabirca, Mark Tangney, Interactive 3D Graphics for Cancer Experiment Data Visualisation, Proceedings of The 2010 International Conference On Bioinformatics and Biomedical Technology (ICBBT 2010), April 2010, Chendu, China, pp. 42-46. 1

Indexed in: IEEE

16.1	AJ Pierrot, EE Pujol, Y Sharma, Autonomous point-based registration of prostate gland tissue images, 2011 4th International Conference on Biomedical Engineering and Informatics (BMEI), 2011, pp. 165 – 169.	D	1
------	---	---	---

17. DC Doolan, S Tabirca, The need for speed: coding styles for mobile devices ELMAR, 2007, 193-196. 2

17.1	R Rawassizadeh, Mobile application benchmarking based on the resource usage monitoring, International Journal of Mobile Computing and Multimedia Communications, Vol 1(4), 2009.	D	1
17.2	R Rawassizadeh, A Anjomshoaa, A M Tjoa, A Qualitative Resource Utilization Benchmarking for Mobile Applications, Book Chapter in Innovations in Mobile Multimedia Communications and Applications: New Technologies	D	1

18. S.Tabirca, T.Tabirca, L.T.Yang and L.Freeman (2004) Evaluation of Feedback Dynamic Loop Scheduling Algorithms, IEICE Trans. Inf & Syst., vol E87-D, no7, July 2004, pp. 1829-1833. Indexed in: DBLP, ISI 4

18.1	M Korch, T Raube, Applicability of load balancing strategies to data-parallel embedded runge-kutta integrators, Euro-Par 2006 Parallel Processing Lecture Notes in Computer Science Volume 4128, 2006, pp 720-729.	A	8
------	---	---	---

19. Marius Paltanea, Mark Tangney, Ernest Scheiber and Sabin Tabirca Logarithmic Growth in Biological Processes, Proceedings of the UKSim-AMS 12th Conference on Computer Modelling and Simulation (UKSim 2010), IEEE March 2010, Cambridge, UK, pp.116-122. 10

19.1	Claudio Angione, Max Conway, Pietro Lió, Multiplex methods provide effective integration of multi-omic data in genome-scale models, BMC Bioinformatics 17(S4) February 2016	A	8
19.2	Claudio Angione, Pietro Lió, Predictive analytics of environmental adaptability in multi-omic network models, Nature - Scientific Reports 5:15147, October 2015	A	8
19.3	Claudio Angione, Naruemon Pratanwanich, Pietro Lió, , A Hybrid of Metabolic Flux Analysis and Bayesian Factor Modeling for Multiomic Temporal Pathway Activation, ACS Synthetic Biology 4(8) , April 2015	B	4

Evaluare Performanta Academica

Total punctaj peste 108 puncte [necesar 60 puncte]

Conditii Minimale nu exista pentru acest criteriu.

1. Carti / Capitole ➔ 12.5

Contributie	Tip	Score
E.Ciurea, T.Tabirca , S.Tabirca , Algoritmi – Metode de elaborare [Algorithms], “Transilvania” University Press, Brasov, 1997, ISBN 973-96505-8-9. 250 pages	D	2
G.Atanasiu, S.Tabirca , M.Paun, Matematici Special [Special Mathematics], Reprography of “Transilvania” Univ of Brasov, 1996.	E	0
S.Tabirca , T.Tabirca, M.Paun, Sisteme de operare – Indrumar de laborator [Operating Systems, Labs Notes], Reprography of “Transilvania” Univ of Brasov, 1995.	E	0
T.Tabirca, E.Ciurea, S.Tabirca , Programarea calculatoarelor – <i>MS-FORTRAN</i> [Programming in <i>MS-FORTRAN</i>], Reprography of “Transilvania” Univ of Brasov, 1995.	E	0
S.Tabirca E.Ciurea, T.Tabirca, Grafuri – Indrumar de laborator [Graphs, Labs Notes], Reprography of “Transilvania” Univ of Brasov, 1994.	E	0
X. Dai , S Tabirca and E. Lenihan, KES: A Practical ICT Solution for Rural Areas, Chapter in Computer and Computing Technologies in Agriculture II, Volume 3, Springer, pp. 1817-1824.	B	4
D.Doolan, T. Mehigan, I.Pitt, S. Tabirca, Cross Platform M-Learning for the Classroom of Tomorrow, Book Chapter in Handbook of Research on Multiplatform E-Learning Systems and Technologies: Mobile Devices for Ubiquitous ICT-Based Education.	D	0.5
D.Grigoras, D.Doolan, S.Tabirca, Scalability of Mobile Ad-Hoc Networks, Book Chapter in Handbook of Research On Scalable Computing Technologies, Idea Group Publishing, Chapter 30, 2009.	D	1
D.Doolan, K. Duggan, S. Tabirca, L.T. Yang, Mobile Gaming: From Single to Multiplayer Bluetooth Gaming, Handbook of Research on Mobile Multimedia 2 nd Edition, Idea Group Publishing, [to appear in 2008].	D	1
D.Doolan, S. Tabirca, L.T. Yang, Parallel Computing on a Mobile Device with the Mobile Message Passing Interface (MMPI), Handbook of Research on Mobile Multimedia 2 nd Edition, Idea Group Publishing, 2008. [to appear in 2008].	D	1
D.Doolan, S. Tabirca, L. T. Yang, Mobile Phones: The Portable Pocket Computer, International Journal of Computer Research, Nova Publishers, ISSN 1535-6698, Volume 14, Number 1/2, 2007, pp 159-177.	D	1
S.Tabirca, K.Reynolds, T.Tabirca and L.T.Yang (2005) An Efficient Parallel Method for Calculating The Smarandache Function, chapter in	D	1

High performance Computing: Paradigms and Infrastructure, Wiley Series on Parallel and Distributed Computing, Wiley Interscience, 2005, pp.725-733.		
D.Doolan, S.Tabirca, L.T.Yang(2005) Mobile Fractal Generation, chapter in <i>Handbook of Mobile Multimedia</i> , 2005, Idea Group Publishing, ISBN 1-59140-866-0, pp. ****.	D	1

2. Editor Proceedings Conferinte ➔ 1 punct

6th European Conference on Games Based Learning Proceedings	D	1
---	---	---

3. Director de Revista ➔ 3 puncte

Editor in Chief, Smarandache Notions Journal, between 2000 to 2007	D	3
--	---	---

4. Coordonator / Investigator Projecte de cercetare ➔ 28

Project	Funding Agency	Amount	Scor
Integration of company's products into social media tools such as Facebook, LinkedIn and Twitter. [Coordonator]	Enterprise Irl	€6,500.00	2
Prediction Models for Gene Therapies of Cancer [Coordonator]	Irish Research Council for Science, Engineering & Technology (IRCSET)	€72,000.00	4
Mathematical Modelling of Cancer Process [Coordonator]	Enterprise Irl	€6,500.00	2
Mobile Computer Graphics [Coordonator]	Irish Research Council for Science, Engineering & Technology (IRCSET)	€68,913.00	4
Interactome Networks for Cancer Analysis [Coordonator]	Irish Research Council for Science, Engineering & Technology (IRCSET)	€72,009.00	4
Enhance Media Content for Healthcare [Coordonator]	Enterprise Irl	€6,500.00	2
Cancer Cell modelling and Visualisation [Coordonator]	Irish Research Council for Science, Engineering & Technology (IRCSET)	€56,892.00	4
To utilise digital and cloud archiving technologies to create a secure electronic record for its users. [Coordonator]	Enterprise Irl	€6,500.00	1
Parallel Computer Graphics (BCRI Project) [Coordonator]	Science Foundation Ireland	€5,000.00	1
Efficient Scheduling Methods (BCRI Project) [Coordonator]	Science Foundation Ireland	€47,000.0	2
Framework for Statistical Modeling and Visualization of Research Data [Investigator]	Enterprise Ireland	€80,000.00	2

Datele din tabel au for generate automatic de catre portalul de cercetare al University College Cork.

5. Profesor la o Universitate din top 200 ➔ 24 puncte

University College Cork este o universitate de top 200 la care am lucrat din 2000.

6. Consolidare Echi pe de Cercetare ➔ 5*8 = 40 puncte

CRR (Computing Resources for life science Research) este un grup de cercetare in University College Cork format din 2006. Grupul este format in jurul Dr Mark Tangney si Dr Sabin Tabirca din cercetatori lucrând in domeniul “Medical Modelling” si “Computer Science”. In medie grupul a avut 5 membrii pe perioada 2006-2014.

7. Membru in Comisii de Doctorale ➔ 11

2012	Xuefeng Ga0	UCC	PHD
2009	Jin Yin Chen	UCC	PHD
2008	Xiaoye Dai	UCC	PHD
2010	Razvan Bocu	UCC	PHD
2008	Daniel Doolan	UCC	PHD
2008	Patrick Felicia	UCC	PhD
2013	Ma Ji	UCC	PhD
2011	Tracy Mehigan	UCC	PhD
2014	Jason Quinlan	UCC	PhD
2010	Diarmuid Healy	UCC	PhD
2015	Conor Ryan	UCC	PhD