

Research Grants and Publications

Research Grants

1. **Post-doctoral research grant**, POSRDU-PARTING, DMI 1.5, ID 137516, funded by the European Social Fund, (feb 2014-oct 2015)
2. **SWARA - Mobile System for Rehabilitative Vocal Assistance of Surgical Aphonia**, *PN-II-PT-PCCA-2013-4 No. 6/2014 (2014-2016)*, <http://speech.utcluj.ro/swara/index.html>
3. **IntelPRO - Intelligent System for Assisting the Therapeutic Decision for Patients with Prostate Cancer**, *National research grant funded by ANCS, CEEEX - INFOSOC, (2005-2008), no. 18/2005*; <http://cv.utcluj.ro/intelpro/>
4. **SEArCH - Adaptive eLearning Systems using Concept Maps**, *National grant funded by CNMP Program 4: Research partnership for priority domains, (2008-2011), no. 12080/2008*; <http://search.utcluj.ro/>
5. **PhD Researcher grant**, *National Research grant funded by CNCSIS – BD type, 2008-2010, no.348/2008*

Journal Papers

1. Potolea, R., Trif, F., **Lemnaru, C.**, “Adaptive E-Learning Systems with Concept Maps”, *Revista Romana de Informatica si Automatica*, vol. 21, no.4/2011, pp. 43-56, 2011, http://rria.ici.ro/ria2011_4/p1-art05.pdf
2. Potolea, R., Trif, F., **Lemnaru, C.**, "Enhancements on Adaptive E-learning Systems", *The Automation, Computers, Applied Mathematics Journal (ACAM)*, Vol. 19, no.3, pp. 475-482, 2010, <http://www.acam.utcluj.ro/web/> [B+]
3. Potolea, R., **Vidrighin B. C.**, Trif, F., “Intelligent Component for adaptive E-learning Systems”, *The Automation, Computers, Applied Mathematics Journal*, Vol. 18, pp. 270-275, 2009, <http://www.acam.utcluj.ro/web/> [B+]
4. **C. Vidrighin Bratu** and R. Potolea, "ProICET: a cost-sensitive system for prostate cancer data", *Health Informatics Journal*, Dec 2008, vol. 14: pp. 297-307, ISSN: 1741-2811 (online); 1460-4582, <http://jhi.sagepub.com/content/14/4/297.abstract> [SciEx]

Book chapters

5. Parau P., **Lemnaru C.**, Dinsoreanu M. and Potolea R., “Opinion Leader Detection”, *Sentiment Analysis in Social Networks*, Elsevier, *in press*
6. **Lemnaru C.** and Potolea R., “Imbalanced Classification Problems: Systematic Study, Issues and Best Practices”, *Lecture Notes in Business Information Processing*, Volume 102, 2012, pp 35-50, 2012, http://rd.springer.com/chapter/10.1007/978-3-642-29958-2_3
7. Potolea, R., Barbantan, I., **Lemnaru, C.**, "A Hierarchical Approach for the Offline Handwritten Signature Recognition", *Lecture Notes in Business Information Processing*, 2011, Volume 73, Part 3, 264-279, DOI: 10.1007/978-3-642-19802-1, http://rd.springer.com/chapter/10.1007/978-3-642-19802-1_19
8. Potolea, R., Cacoveanu, S., **Lemnaru, C.**, "Meta-learning Framework for Prediction Strategy Evaluation", *Lecture Notes in Business Information Processing*, 2011, Volume 73, Part 3, 280-295, DOI: 10.1007/978-3-642-19802-1, http://rd.springer.com/chapter/10.1007/978-3-642-19802-1_20

9. **C. Vidrighin Bratu** and R. Potolea, Advances in Greedy Algorithms – chapter 9: "Enhancing Greedy Policy Techniques for Complex Cost-Sensitive Problems", IN-TECH, 2008, pp. 151-168, ISBN 978-953-7619-27-5 (print), http://www.intechopen.com/books/greedy_algorithms/enhancing_greedy_policy_techniques_for_complex_cost-sensitive_problems

Conference Papers

2015

1. Szenasi, G., **Lemnaru, C.**, Barbantan I., "Concept extraction from medical documents a contextual approach", Proceedings of the 11th IEEE International Conference on Intelligent Computer Communication and Processing, pp. 13-17, 2015
2. Muresan, S., Faloba, I. **Lemnaru, C.**, Potolea, R., "Pre-processing flow for enhancing learning from medical data", Proceedings of the 11th IEEE International Conference on Intelligent Computer Communication and Processing, pp. 27-34, 2015
3. Balc, D., Beleiu, A., Potolea R., **Lemnaru, C.**, "A learning-based approach for Romanian syllabification and stress assignment", Proceedings of the 11th IEEE International Conference on Intelligent Computer Communication and Processing, pp. 37-42, 2015
4. Chira C., **Lemnaru, C.**, "A multi-objective evolutionary approach to imbalanced classification problems", Proceedings of the 11th IEEE International Conference on Intelligent Computer Communication and Processing, pp. 149-154, 2015
5. Parau P., **Lemnaru, C.**, Potolea R. "Assessing Vertex Relevance based on Community Detection", Proceedings of KDIR 2015, pp. 46-56, 2015
6. Prisca S., Dinsoreanu M., **Lemnaru, C.**, "Topic Oriented Auto-completion Models", Proceedings of KDIR 2015, pp. 241-248, 2015

2014

7. I. Barbantan, **C. Lemnaru** and R. Potolea, "Disease Identification in Electronic Health Records = An Ontology based Approach", KDIR, 261-268, <http://www.scitepress.org/DigitalLibrary/Link.aspx?doi=10.5220/0005082002610268>
8. AL Anisiei, M Dinsoreanu, **C Lemnaru**, R Potolea, "Extracting opinion holders and targets in Romanian texts", IEEE ICCP 2014, pp. 37-42

2013

1. **Lemnaru, C.**, Bona, A. and Potolea, R., "Distributed Methodologies for Imbalanced Classification Problems: Parameter Analysis and Tuning", Proceedings of the 12th International Symposium on Parallel and Distributed Computing - ISPDC 2013, pp. 53-58, 2013
2. Parau, P., Stef, A., **Lemnaru, C.**, Dinsoreanu, M. and Potolea, R., "Using Community Detection for Sentiment Analysis", *Proceedings of the 9th IEEE International Conference on Intelligent Computer Communication and Processing*, 2013

2012

3. **Lemnaru, C.**, Cuibus, M., Alic, A., Bona, A. and Potolea, R., "A Distributed Methodology for Imbalanced Classification Problems", Proc. of the *11th International*

Symposium on Parallel and Distributed Computing 2012, pp. 164 – 171, 2012, [IEEE] [DBLP]

4. **Lemnaru, C.**, Sin-Neamtiu, A., Veres, M.A., Veres, M. and Potolea, R., “A System for Historical Documents Transcription based on Hierarchical Classification and Dictionary Matching”, *KDIR 2012 - Proceedings of the International Conference on Knowledge Discovery and Information Retrieval*, Barcelona, Spain, 4 - 7 October, 2012, SciTePress, ISBN 978-989-8565-29-7. [DBLP]
5. **Lemnaru, C.**, Tudose-Vintila, A., Coclici, A. and Potolea, R., “A Hybrid Solution for Imbalanced Classification Problems. Case Study on Network Intrusion Detection”, *KDIR 2012 - Proceedings of the International Conference on Knowledge Discovery and Information Retrieval*, Barcelona, Spain, 4 - 7 October, 2012, SciTePress, ISBN 978-989-8565-29-7. [DBLP]
6. **Lemnaru, C.**, Dobrin, M., Florea, M., Potolea, R., “Designing a Travel Recommendation System using Case-Based Reasoning and Domain Ontology”, *Proceedings of the 8th IEEE International Conference on Intelligent Computer Communication and Processing*, pp. 23-30, 2012.

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7. Potolea, R., **Lemnaru C.**, "A Comprehensive Study of the Effect of Class Imbalance on the Performance of Classifiers" *Proceedings of the 13th International Conference on Enterprise Information Systems*, pp. 14-21, 2011, http://www.iceis.org/abstracts/2011/iceis_2011_abstracts.htm
8. **Lemnaru, C.**, Firte, A., Potolea, R., “Static and Dynamic User Type Identification in Adaptive E-learning with Unsupervised Methods”, *Proceedings of the 2011 IEEE 7th International Conference on Intelligent Computer Communication and Processing*, pp. 11-18, 2011, http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6047838&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6047838
9. Dodut, A.A., **Lemnaru C.** and Potolea R., “The parallel classification of very large collections of data on multi-core platforms”, in *Proceedings of the 10th International Symposium on Parallel and Distributed Computing 2011*, pp.57-62, 2011, <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=6108256&contentType=Conference+Publications>
10. Feier, M., **Lemnaru C.** and Potolea R., “Solving NP-Complete Problems on the CUDA Architecture using Genetic Algorithms”, in *Proceedings of the 10th International Symposium on Parallel and Distributed Computing 2011*, pp.278-281, 2011, <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=6108287&contentType=Conference+Publications>

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11. Balla-Muller, N., **Lemnaru, C.**, Potolea, R., "Semi-supervised learning with lexical knowledge for opinion mining," *Proceedings of the 2010 IEEE 6th International Conference on Intelligent Computer Communication and Processing*, pp.19-25, 2010, http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5606469&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D5606469
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13. Cacoveanu, S., **Vidrighin, B. C.**, Potolea, R., "Evaluating Prediction Strategies in an Enhanced Meta-learning Framework", *Proceedings of the 12th International Conference on Enterprise Information Systems*, Funchal, Madeira, Portugal, pp. 148-156, 2010, <http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/l/Lemnaru:Camelia.html>
 14. Firte, L., **Lemnaru, C.**, Potolea, R., "Spam detection filter using KNN algorithm and resampling", *Proceedings of the 2010 IEEE 6th International Conference on Intelligent Computer Communication and Processing*, pp.27-33, 2010, <http://www.computer.org/portal/web/csdl/doi/10.1109/ICCP.2010.5606466>
 15. Halalai, R., **Lemnaru, C.**, Potolea, R., "Distributed community detection in social networks with genetic algorithms", *Proceedings of the 2010 IEEE 6th International Conference on Intelligent Computer Communication and Processing*, pp.35-41, 2010, <http://www.computer.org/csdl/proceedings/iccp/2010/8228/00/05606467-abs.html>
 16. R.F. Muresan, **C. Lemnaru**, R. Potolea, "Evidence Combination for Baseline Accuracy Determination", *Proceedings of the 2010 IEEE 6th International Conference on Intelligent Computer Communication and Processing*, pp. 11-18, 2010, <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=4352140&contentType=Conference+Publications>
 17. Potolea, R., **Lemnaru, C.**, "Dealing with Imbalanced Problems: Issues and Best Practices", *Proceedings of the 12th International Conference on Enterprise Information Systems*, Volume 2, AIDSS, June 8 - 12, pp. 443-446, ISBN 978-989-8425-05-8, 2010, <http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/l/Lemnaru:Camelia.html>
 18. Trif, F., **Lemnaru, C.**, Potolea, R., "Identifying the User Typology for Adaptive E-learning Systems", *Proceedings of AQTR 2010 - IEEE International Conference on Automation, Quality and Testing, Robotics*, Cluj-Napoca, May 28-30, 2010, pp. 192-198/Tome III, <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=5520728&contentType=Conference+Publications>

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19. Bărbăntan, I., **Vidrighin, C.**, Borca, R., "An Offline System for Handwritten Signature Recognition", *Proceedings of the 5th IEEE International Conference on Intelligent computer Communication and Processing*, Cluj-Napoca, pp. 3-10, 2009, <http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5284793&url=http%3A%2F%2Fieeexplore.ieee.org%2Fiel5%2F5278388%2F5284721%2F05284793.pdf%3Farnumber%3D5284793>
20. Cacoveanu, S., **Vidrighin, B.C.**, Potolea, R., "Evolutional meta-learning framework for automatic classifier selection", *Proceedings of the 5th IEEE International Conference on Intelligent computer Communication and Processing*, pp. 27-30, 2009, http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5284790&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D5284790
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25. **Vidrighin Bratu, C.**, Muresan, T. and Potolea, R., "Improving Classification Performance on Real Data through Imputation", *Proceedings of the 2008 IEEE International Conference on Automation, Quality and Testing, Robotics*, 22-25 May, Cluj-Napoca, Romania, Vol. 3, pp. 464-469, ISBN: 978-1-4244-2576-1, <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=4588965&contentType=Conference+Publications>
26. **Vidrighin, B. C.**, Potolea, R., "Towards a Combined Approach to Feature Selection", *Proceedings of the 3rd International Conference on Software and Data Technologies*, pp. 134-139, 2008, http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/b/Bratu:Camelia_Vidrighin.html
27. **Vidrighin, B.C.**, Muresan, T., Potolea, R., "Improving Classification Accuracy through Feature Selection", *Proceedings of the 4th IEEE International Conference on Intelligent computer Communication and Processing*, pp. 25-32, http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=4648350&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D4648350

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