

## Anca ANDREICA

### The most relevant papers published after the PhD defense

1. A. Andreica, C. Chira, Best-Order Crossover for Permutation-Based Evolutionary Algorithms, Applied Intelligence, 2014, doi:10.1007/s10489-014-0623-0.
2. A. Andreica, C. Chira, Evolution and Dynamics of Node-Weighted Networks for Cellular Automata Computation, Logic Journal of the IGPL, 2014.
3. R.I. Lung, C. Chira., A. Andreica, Game Theory and Extremal Optimization for Community Detection in Complex Dynamic Networks, PLoS One Journal 9(2): e86891, 2014, doi: 10.1371/journal.pone.0086891
4. D. Iclanzan, A. Gog (Andreica), C. Chira, Cell state change dynamics in cellular automata, Memetic Computing: Volume 5, Issue 2, 2013, p. 131-139.
5. A. Andreica, C. Chira, Using a Hybrid Cellular Automata Topology and Neighborhood in Rule Discovery, Proceedings of the 8th International Workshop on Hybrid Artificial Intelligence Systems (HAIS 2013), Salamanca, Spain, Lecture Notes in Artificial Intelligence, Springer-Verlag, vol. 8073, 2013, p. 669-678.
6. C. Chira, A. Gog (Andreica), D. Iclanzan, Evolutionary Detection of Community Structures in Complex Networks: a New Fitness Function, Proceedings of IEEE Congress on Evolutionary Computation (CEC 2012), Brisbane, Australia, 2012, p. 1719-1726.
7. C. Chira, A. Gog (Andreica), D. Zaharie, D. Dumitrescu, Complex Dynamics in a Collaborative Evolutionary Search Model, Creative Mathematics and Informatics, vol. 17, nr. 3, 2008, p. 346-356.

### PhD Thesis

*New evolutionary optimization techniques, 2007*

### Books and book chapters

1. Anca Andreica, New Evolutionary Optimization Techniques, Casa Cartii de Stiinta, Cluj-Napoca, 2013, ISBN 978-606-17-0344-9.
2. C. Chira, A. Gog (Andreica), Recombination operators in permutation-based evolutionary algorithms for the travelling salesman problem, Chapter 10 in Logistics Management and Optimization through Hybrid Artificial Intelligence Systems, IGI Global, 2012, p. 268-285.
3. Anca Gog (Andreica) et al., Programarea în limbaj de asamblare 80x86. Exemple și aplicații., ed. Risoprint, Cluj-Napoca, 2005

4. Alexandru Vancea et al., Arhitectura calculatoarelor. Limbajul de asamblare 80x86.,ed. Risoprint, Cluj-Napoca, 2005

### **Papers published in journals**

1. A. Andreica, C. Chira, Best-Order Crossover for Permutation-Based Evolutionary Algorithms, Applied Intelligence, 2014, doi:10.1007/s10489-014-0623-0.
2. A. Andreica, C. Chira, Evolution and Dynamics of Node-Weighted Networks for Cellular Automata Computation, Logic Journal of the IGPL, 2014.
3. Agapie A, Andreica A, Chira C, Giuclea M, Predictability in Cellular Automata. PLoS One Journal 9(10): e108177, 2014, doi:10.1371/journal.pone.0108177
4. A. Agapie, A. Andreica, M. Giuclea, Probabilistic Cellular Automata, Journal of Computational Biology, vol. 21, issue 9, p. 699-708 (2014)
5. R.I. Lung, C. Chira., A. Andreica, Game Theory and Extremal Optimization for Community Detection in Complex Dynamic Networks, PLoS One Journal 9(2): e86891, 2014, doi: 10.1371/journal.pone.0086891
6. A. Andreica, C. Chira, Best-Order Crossover in an Evolutionary Approach to Multi-Mode Resource-Constrained Project Scheduling, International Journal of Computer Information Systems and Industrial Management (IJCISIM), vol. 6, 2014, p. 364 – 372.
7. D. Iclanzan, A. Gog (Andreica), C. Chira, Cell state change dynamics in cellular automata, Memetic Computing: Volume 5, Issue 2, 2013, p. 131-139.
8. A. Andreica, C. Chira, Weighted Majority Rule for Hybrid Cellular Automata Topology and Neighborhood, Studia Universitatis Babeş-Bolyai, Informatica series, Vol. LVIII, No. 2, 2013, p. 65-76.
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10. V. Varga, H. Grebla, A. Andreica, Decision Support System for Babes-Bolyai University, Studia Universitatis Babeş-Bolyai, Informatica series, Vol. LVIII, No. 1, 2013, p. 102-110.
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12. A. Andreica, C. Chira, A Collaborative Evolutionary Approach to Resource-Constrained Project Scheduling, Studia Universitatis Babeş-Bolyai, Informatica series, Vol. LVII, No. 3, 2012, p. 76-84.
13. A. Gog (Andreica), C. Chira, Collaborative search operators for evolutionary approaches to density classification in cellular automata. Studia Informatica series, Vol. LVI, No. 2, 2011, p. 125-130.

14. A. Gog (Andreica), C. Chira, D. Dumitrescu, Evolutionary Community Structure Detection, *Annals of West University of Timisoara, Series of Mathematics and Informatics*, vol. XLIX, no.1, 2011, p. 39-48.
15. D. Iclanzan, R.I. Lung, A. Gog (Andreica), C. Chira, Evolutionary Computing in the Study of Complex Systems, *Studia Informatica series*, Vol. LVI, No. 1, 2011, pp. 80-94.
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18. A. Darabant, A. Gog (Andreica), Hierarchical Clustering in Large Object Datasets - A Study on Complexity, Quality and Scalability, *Studia Universitatis Babeş-Bolyai, seria Informatica*, vol. LIV, no. 2, 2009, p. 37-46.
19. A. Gog (Andreica), Evolving Network Topologies for Cellular Automata. *Studia Universitatis Babeş-Bolyai, seria Informatica*, vol. LIII, no. 1, 2008, p. 45-52.
20. C. Chira, A. Gog (Andreica), D. Zaharie, D. Dumitrescu, Complex Dynamics in a Collaborative Evolutionary Search Model, *Creative Mathematics and Informatics*, vol. 17, nr. 3, 2008, p. 346-356.
21. A. Gog (Andreica), D. Dumitrescu, Collaborative Selection for Evolutionary Algorithms. *Studia Universitatis Babeş-Bolyai, seria Informatica*, vol. LII, Special Issue, 2007, p. 138–144.
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## Papers published in conferences proceedings

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3. A. Andreica, C. Chira, The Role of Crossover in Evolutionary Approaches to Resource-Constrained Project Scheduling, Proceedings of the International Conference on Intelligent Systems Design and Applications (ISDA 2012), Kochi, India, 2012, p. 200-205.
4. A. Gog (Andreica), C. Chira, Dynamics of Networks Evolved for Cellular Automata Computation, Proceedings of the 7th International Workshop on Hybrid Artificial Intelligence Systems (HAIS 2012), Salamanca, Spain, Hybrid Artificial Intelligent Systems, Springer-Verlag, vol. 7208-7209, 2012, p. 359-368.
5. C. Chira, A. Gog (Andreica), D. Iclanzan, Evolutionary Detection of Community Structures in Complex Networks: a New Fitness Function, Proceedings of IEEE Congress on Evolutionary Computation (CEC 2012), Brisbane, Australia, 2012, p. 1719-1726.
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18. C. Chira, A. Gog (Andreica), D. Dumitrescu, Distribution, collaboration and coevolution in asynchronous search, Proceedings of the International Symposium on Distributed Computing and Artificial Intelligence (DCAI 2008), Salamanca, Spain, Advances in Soft Computing, Vol. 50, 2009, p. 596-604.
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## Other papers

1. A. Gog (Andreica), C. Chira, Study of Majority Rule for Network Based Cellular Automata. Proceedings of the Symposium "Zilele Academice Clujene", Computer Science Section, Cluj-Napoca, 2012, p. 169-172.
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January 7th, 2015