

Enrique Alba

Referencias a mis Trabajos (References to my Papers) Feb 7, 2007

• **Parallelism and Evolutionary Algorithms** – E. Alba and M. Tomassini, *IEEE Transactions on Evolutionary Computation* 6(5):443-462, 2002

1. *A Scalable Parallel Genetic Algorithm for X-ray Spectroscopic Analysis*, K. Xu, S.J. Louis, R.C. Manzini, ACM Press, en Procs. of GECCO'05, pp. 811-816, 2005
2. *Un Algoritmo Evolutivo Multiobjetivo Paralelo Aplicado al Diseño de Redes de Comunicaciones Confiables*, S. Nesmachnow, en Actas de MAEB'05, Thomson, pp. 145-152, 2005
3. *A Takeover Time Curves in Random and Small-World Structured Populations*, M. Giacobini, M. Tomassini, A. Tettamanzi, ACM Press, en Procs. of GECCO'05, pp. 1333-1340, 2005
4. *Parallel Genetic Algorithm for Graph Coloring Problem*, Z. Kokosinski, M. Kolodziej, K. Kwarciany
5. *A Parallel Approach to Elevator Optimization Based on Soft Computing*, T. Beielstein, S. Markon, and M. Preu. In T. Ibaraki (ed.) *Procs. 5th Metaheuristics Int'l Conf. (MIC'03)*, pp. 07/1--07/11 (CD- ROM), Kyoto, Japan, 2003
6. *Considerations in Engineering Parallel Multiobjective Evolutionary Algorithms*, Van Veldhuizen DA, Zydallis JB, Lamont GB, IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION 7 (2): 144-173 APR 2003
7. *A Specialized Island Model and its Application in Multiobjective Optimization*, Xiao NC, Armstrong MP, LECTURE NOTES IN COMPUTER SCIENCE 2724: 1530-1540 2003
8. *Evolutionary Design of Rule Changing Cellular Automata*, Kanoh H, Wu Y, LECTURE NOTES IN ARTIFICIAL INTELLIGENCE 2773: 258-264 2003
9. *Ten Years of Genetic Fuzzy Systems: Current Framework and New Trends*, Cordon O, Gomide F, Herrera F, et al. FUZZY SETS AND SYSTEMS 141 (1): 5-31 JAN 1 2004
10. *Evolutionary Algorithms with Neighborhood Cooperativeness According to Neural Maps*, Villmann T, Villmann B, Slowik V, NEUROCOMPUTING 57: 151-169 MAR 2004
11. *A Distributed Evolutionary Simulated Annealing Algorithm for Combinatorial Optimisation Problems*, Aydin ME, Fogarty TC, JOURNAL OF HEURISTICS 10 (3): 269-292 MAY 2004
12. *ParaDisEO-based Design of Parallel and Distributed Evolutionary Algorithms*, Cahon S, Melab N, Talbi EG, et al., LECTURE NOTES IN COMPUTER SCIENCE 2936: 216-228 2004
13. *Building with ParadisEO reusable Parallel and Distributed Evolutionary Algorithms*, Cahon S, Melab N, Talbi EG, PARALLEL COMPUTING 30 (5-6): 677-697 MAY-JUN 2004
14. *Parallel Genetic Algorithm for Graph Coloring Problem*, Kokosinski Z, Kolodziej M, Kwarciany K, LECTURE NOTES IN COMPUTER SCIENCE 3036: 215-222 2004
15. *On the Importance of Information Speed in Structured Populations*, Preuss M, Lasarczyk C, LECTURE NOTES IN COMPUTER SCIENCE 3242: 91-100 2004
16. *On Stopping Criteria for Genetic Algorithms*, Safe M, Carballido J, Ponzoni I, et al., LECTURE NOTES IN ARTIFICIAL INTELLIGENCE 3171: 405-413 2004
17. *An Evolutionary Approach for Modelling Lava Flows Through Cellular Automata*, Spataro W, D'Ambrosio D, Rongo R, et al., LECTURE NOTES IN COMPUTER SC. 3305: 725-734 2004
18. *Distribution of Evolutionary Algorithms in Heterogeneous Networks*, Branke J, Kamper A, Schmeck H., LECTURE NOTES IN COMPUTER SCIENCE 3102: 923-934 Part 1 2004
19. *Practical Genetic Algorithms (2nd edition)*, R.L. Haupt, S.E Haupt, pp. 138 and 141, Wiley 2004
20. *On the Solution of the Instrumentation Selection Problem*, Carnero M, Hernandez JL, Sanchez M, et al., INDUSTRIAL & ENGINEERING CHEMISTRY RES. 44 (2): 358-367 JAN 19 2005
21. *Parallel Implementation of EDAs Based on Probabilistic Graphical Models*, Mendiburu A., Lozano JA., Miguel-Alonso J., IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION 9 (4): 406-423 AUG 2005
22. *Genetic Fuzzy Systems: Status, Critical Considerations and Future Directions*, F. Herrera, *International Journal of Computational Intelligence Research* 1(1):59-67, January 2006

23. *Analysis and Development of High Performance Genetic Algorithms for Single-objective Optimization*, S. Tiwari
24. *Analysis of a master-slave architecture for distributed evolutionary computations*, Dubreuil, M., Gagné, C., Parizeau, M., *IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics* 36 (1), pp. 229-235, 2006
25. *Parallel reactive power optimization based on differential evolution and PC-cluster*, Liang, C.-H., Duan, X.-Z., Zhong, Z.-Y., Huang, J.-B., Dianli Xitong Zidonghua, *Automation of Electric Power Systems* 30 (1), pp. 29-34, 2006
26. *Efficient graph coloring with parallel genetic algorithms*, Kokosiński, Z., Kwarciany, K., Kolodziej, M., *Computing and Informatics* 24 (2), pp. 123-147, 2005
27. *Evolutionary intelligent agents for e-commerce: Generic preference detection with feature analysis*, Guan, S.-U., Chan, T.K., Zhu, F., *Electronic Commerce Research and Applications* 4 (4), pp. 377-394, 2005
28. *GP ensemble for distributed Intrusion detection systems*, Folino, G., Pizzuti, C., Spezzano, G., *Lecture Notes in Computer Science* 3686 (PART I), pp. 54-62, 2005
29. *Improving model combination through local search in parallel univariate EDAs*, DelaOssa, L., Gámez, J.A., Puerta, J.M., *IEEE Congress on Evolutionary Computation*, IEEE CEC 2005. Proceedings 2, pp. 1426-1433, 2005
30. *An efficient feature extraction method for the Middle-Age character recognition*, Alirezaee, S., Aghaenia, H., Faez, K., Fard, A.S., *Lecture Notes in Computer Science* 3645 (PART II), pp. 998-1006, 2005
31. *PSFGA: Parallel processing and evolutionary computation for multiobjective optimisation*, De Toro Negro, F., Ortega, J., Ros, E., Mota, S., Paechter, B., Martín, J.M., *Parallel Computing* 30 (5-6), pp. 721-739. Cited 2 times, 2004
32. *Exploring massively parallel models and architectures for efficient computation of evolutionary algorithms*, Eklund, S.E., *Doktorsavhandlingar vid Chalmers Tekniska Hogskola* (2100), 2004
33. *Parallelizing multi-objective evolutionary algorithms: Cone separation*, Branke, J., Schmeck, H., Deb, K., Maheshwar, R.S., *Proceedings of the 2004 Congress on Evolutionary Computation*, CEC2004 2, pp. 1952-1957, 2004
34. *Una Versión Paralela del Algoritmo Evolutivo para Optimización Multiobjetivo NSGA-II y su Aplicación al Diseño de Redes de Comunicaciones Confiables*, S. Nesmachnow, T.R. 0403, Univ. de La República, Uruguay 2004
35. *Distribution of Evolutionary Algorithms in Heterogeneous Networks*, Jürgen Branke, Andreas Kamper, and Hartmut Schmeck, In K. Deb et al. (Eds.) *Procs. of GECCO 2004*, LNCS 3102, pp. 923-934, 2004
36. *Analysis of Scalable Parallel Evolutionary Algorithms*, Jun He and Xin Yao. In G. Yen (ed.) *IEEE Procs. of CEC'06*, IEEE Press, pp. 427-434, 2006
37. *Parallel Evolutionary Asymmetric Subsethood Product Fuzzy-Neural Inference System with Applications*, L. Singh, S. Kumar, In G. Yen (ed.) *IEEE Procs. of CEC'06*, IEEE Press, pp. 8517-8524, 2006
38. *Towards Parallel Design of Hybrids Between Metaheuristics and Exact Methods*, M. Basseur, L. Jourdan and E.-G. Talbi, in E.-G. Talbi (ed.) *Parallel Combinatorial Optimization*, chapter 7, pp. 163-185, Wiley, Nov. 2006
39. *Grid Computing for Parallel Bioinspired Algorithms*, Melab, N., Cahon, S., and Talbi, E. *Journal of Parallel Distributed Computing* 66(8):1052-1061, August 2006
40. *Parallelisation of genetic algorithms for the 2-page crossing number problem*, Hongmei He, Ondrej Sýkora, Ana Salagean and Erkki Mäkinen, *Journal of Parallel and Distributed Computing*, Volume 67, Issue 2, Pages 229-241, February 2007

FIRST TOP PAPER IN ENGINEERING IN UNIV. OF MÁLAGA (ISI 2005)

BEST 1% PAPERS FROM SPAIN IN ENGINEERING: POSITION 117 (OF 176)

- **The Exploration/Exploitation Tradeoff in Dynamic Cellular Genetic Algorithms** – E. Alba, B. Dorronsoro. *IEEE Transactions on Evolutionary Computation*, IEEE Press, 9(2)126-142, 2005
 1. *Emergent Mating Topologies in Spatially Structured Genetic Algorithms*, J. L. Payne, M. J. Eppstein, in ACM Proceedings of GECCO 2006
 2. *A Preliminary Investigation of Anisotropic Selection in Cellular Genetic Algorithms*, D. Simoncini, S. Verel, P. Collard, and M. Clergue. In Procs. of Evolution Artificielle, 7th International Conference, Lille, France, 2005
 3. *An Evolutionary Algorithm for Global Optimization Based on Level-Set Evolution and Latin Squares*, Y. Wang and C. Dang, *IEEE Transactions on Evolutionary Computation* 11(5):579-595, Octubre de 2007. . ISSN: 1089-778X
 4. *The Self-Organization of Interaction Networks for Nature-Inspired Optimization*, J.M. Whitacre, R.A. Sarker, Q.T. Pham, *IEEE Transactions on Evolutionary Computation*, to appear.
 5. *Peer-to-peer Evolutionary Algorithms with Adaptive Autonomous Selection*, W.R.M.U.K. Wickramasinghe, M. van Steen, A.E. Eiben, Proc. Of the Genetic and Evolutionary Conference (GECCO), pp. 1460-1467, 2007.
 6. *An Analysis of the Effects of Population Structure on Scalable Multiobjective Optimization Problems*, M. Kirley and R. Stewart, Proc. Of the Genetic and Evolutionary Conference (GECCO), pp. 845-852, 2007.
 7. *Multiobjective Evolutionary Algorithms on Complex Networks*, en: Evolutionary Multi-Criterion Optimization. M. Kirley and R. Stewart, 4th International Conference, EMO07, LECTURE NOTES IN COMPUTER SCIENCE volumen 4403, Japón, pp. 81-95, Springer-Verlag, 2007. ISSN 0302-9743.
 8. *Exploration/exploitation tradeoff with cell-shift and heuristic crossover for evolutionary algorithms*, X. Zhao and J. Hao, *Journal of Systems Science and Complexity* 20 (1), pp. 66-74, 2007.
 9. *Anisotropic selection in cellular genetic algorithms*, S. Verel, D. Simoncini, P. Collard, and M. Clergue, Genetic and Evolutionary Optimization Conference (GECCO'06), 8–12 de Julio de 2006, Seattle, Washington, USA, pp. 559-566.
 10. *Effects of using two neighborhood structures in cellular genetic algorithms for function optimization*, H. Ishibuchi, T. Doi, Y. Nojima, *Parallel Problem Solving from Nature (PPSN)*, LECTURE NOTES IN COMPUTER SCIENCE volumen 4193, Reykjavik, Islandia, pp. 949-958, 9-13 de Septiembre de 2006. ISBN 978-3-540-38990-3
 11. *From cells to islands: An unified model of cellular parallel Genetic Algorithms*, D. Simoncini, P. Collard, J. Qingshan, S. Verel, M. Clergue, *Proceedings of the Cellular Automata Conference*, LECTURE NOTES IN COMPUTER SCIENCE, volumen 4173, pp. 248-257, 2006. ISSN 0302-9743.
 12. *Prediction of the Yelow River Estuary Area Based on Cellular Evolutionary Neural Networks*, Y. Ying, Z. Wenhua, J. Qingshan, *Journal of Xiamen Uuniversity (Natural Science)*, Vol.45, No.1, pp.296-300, 2006. ISSN 0438-0460.
 13. *Resolución de Problemas Combinatorios con Aplicación Real en Sistemas Distribuidos*, G. Luque Polo, Tesis Doctoral, 2006.
 14. *Emergent Mating Topologies in Spatially Structured Genetic Algorithms*, J. L. Payne, M. J. Eppstein, Genetic and Evolutionary Optimization Conference (GECCO06), 8–12 de Julio de 2006, Seattle, Washington, USA, pp. 207-214.
 15. *Mutated genetic algorithm based-on advanced number solving KP*, Z.-X. Yang, Z.-Z. Yong, M. Yu, R. Yang, *Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and*

Engineering 23 (2), pp. 128-132, 2006.

16. *Spatially Structured Evolutionary Algorithms: Artificial Evolution in Space and Time*, M. Tomassini, Springer, Berlin, Heidelberg, New York, 2005.

17. *Artificial Evolution on Network Structures*, M. Giacobini, Tesis Doctoral, 2005. 3-540-23092-0

• **Analyzing Synchronous and Asynchronous Parallel Distributed Genetic Algorithms** – E. Alba, J.M. Troya, *Future Generation Computer Systems*, 17(4):451-465, January 2001

1. *Optimisation of the performance of neural network based pattern recognition classifiers with distributed systems*, Türkoglu, I., Arslan, A., Proceedings of the International Conference on Parallel and Distributed Systems - ICPADS pp. 379-382, 2001

2. *Experimental Investigation of Three Distributed Genetic Programming Models*, Marco Tomassini, Leonardo Vanneschi, Francisco Fernández, Germán Galeano, Lecture Notes in Computer Science, Volume 2439, Pages 641 - 650, Jan 2002

3. *Comparing Synchronous and Asynchronous Parallel and Distributed GP Models*. Francisco Fernandez and G. Galeano and J. A. Gomez. In James A. Foster and Evelyne Lutton and Julian Miller and Conor Ryan and Andrea G. B. Tettamanzi editors, Genetic Programming, Proceedings of the 5th European Conference, EuroGP 2002, vol. 2278, pages 326-335, Springer-Verlag, 2002

4. *A new asynchronous parallel evolutionary algorithm for function optimization*, PU LIU, LAU Francis, LEWIS Michael J., WANG Cho-Li, In Merelo Guervos Juan Julian, Adamidis Panagiotis, Beyer Hans-Georg, Fernandez-Villacanas Jose Luis (eds.) Parallel problem solving from nature - PPSN VII LNCS 2439, pp. 401-410, Springer-Verlag, September 2002

5. *Considerations in Engineering Parallel Multiobjective Evolutionary Algorithms*, Van Veldhuizen DA, Zydallis JB, Lamont GB, IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION 7 (2): 144-173 APR 2003

6. *Considerations in engineering parallel multiobjective evolutionary algorithms*, Van Veldhuizen, D.A., Zydallis, J.B., Lamont, G.B., IEEE Transactions on Evolutionary Computation 7 (2), pp. 144-173, 2003

7. *Unas primeras aproximaciones evolutivas al problema del particionado en mundos virtuales distribuidos (DVE)*, P. Morillo, M. Fernández y V. Arnau, 2o Congreso Español de Metaheurísticas y Algoritmos Evolutivos y Bioinspirados (MAEB'03), pp. 578-585, Gijón, Spain. February, 2003

8. *Aspectos clave en las tecnologías de Mundos Virtuales Distribuidos (DVE)*, P. Morillo, M. Fernández and J.M. Orduña, in II Congreso Internacional de la Sociedad de la Información y el Conocimiento (CISIC' 2003), Volume II, pp. 218-229, Madrid, Spain. May, 2003

9. *Algoritmos Genéticos Paralelos y su Aplicación al Diseño de Redes de Comunicaciones Confiables*, S. Nasmachnow, Master Thesis, ULR Uruguay, 2004

10. *Parallel genetic algorithms: Advances, computing trends, applications and perspectives*, Konfršt, Z., Proceedings - International Parallel and Distributed Processing Symposium, IPDPS 2004 (Abstracts and CD-ROM) 18, pp. 2303-2310, 2004

11. *Parallel evolutionary algorithms: Advances*, Konfršt, Z., Soft Computing with Industrial Applications - Proceedings of the Sixth Biannual World Automation Congress pp. 429-434, 2004

12. *On super-linearity in parallel genetic algorithms*, Konfršt, Z., Proceedings of the IASTED International Conference on Neural Networks and Computational Intelligence pp. 96-101, 2004

13. *A new evolutionary computing model based on cellular learning automata*, Rastegar, R., Meybodi, M.R., 2004 IEEE Conference on Cybernetics and Intelligent Systems pp. 433-438, 2004

14. *Parallel Hardware Implementation of Cellular Learning Automata based Evolutionary Computing (CLA-EC) on FPGA*, Arash Hariri Reza Rastegar Morteza Saheb Zamani Mohammad R. Meybodi, In Proceedings of the 13th Annual IEEE Symposium on Field-Programmable Custom Computing Machines (FCCM'05), 2005

15. *Parallel particle swarm optimization algorithm with island population model*, Huang, F., Fan, X.-P., Kongzhi yu Juece/Control and Decision 21 (2), pp. 175-179+188, 2006
 16. *Using computational intelligence and parallelism to solve an industrial design problem*, Asteasuain, F; Carballido, JA; Vazquez, GE; Ponzoni, I, In ADVANCES IN ARTIFICIAL INTELLIGENCE - IBERAMIA-SBIA 2006, PROCEEDINGS 4140: 188-197, 2006
- **Full Automatic ANN Design: A Genetic Approach** – E. Alba, J.F. Aldana, J.M. Troya, in J. Mira, J. Cabestany y A. Prieto (eds) *Procs. of International Workshop on Artificial Neural Networks (IWANN'03)*, Lecture Notes in Computer Science 686, Springer-Verlag, pp. 399-404, 1993
1. *Evolutionary Artificial Neural Networks*, X. Yao, *International Journal of Neural Systems*, 4(3):203-222, 1993
 2. *An Indexed Bibliography of Genetic Algorithms and Neural Networks*. JT Alander, Report 94-1-NN, University of Vaasa, 1994
 3. *Entwicklung eines Ähnlichkeitswerkzeugs auf der Basis neuronaler Netze am Beispiel der Werkstoffinformation*. Thomas Mandl, Universität, Master Thesis, 1994
 4. *Evolutionary Algorithms for Neural Network Design and Training*, J. Branke, In *Procs. 1st Nordic Workshop on GAs and their Applications*, Vaasa, Finland, pp. 145-163, 1995
 5. *Evolutionary Design of Neural -- Architectures A Preliminary Taxonomy and Guide to Literature*, Karthik Balakrishnan, Vasant Honavar, (January 1995). Tech. rept. CS TR #95-01. Department of Computer Science, Iowa State University, Ames
 6. *Evolving Artificial Neural Networks*, Yao X. *Procs. of the IEEE* 87(9): 1423-1447, SEP 1999
 7. *Evolutionary Cellular Configurations for Designing Feed-Forward Neural Networks Architectures*, G. Gutiérrez, P. Isasi, J.M. Molina, A. Sanchis, I. M. Galván, In J. Mira and A. Prieto (Eds.) *Procs. of IWANN 2001*, LNCS 2084, pp. 514-521, 2001.
 8. *Generative Capacities of Cellular Automata Codification for Evolution of NN Codification*, Gutiérrez G, Galván IM, Molina JM, et al., LNCS 2415:314-319, 2002
 9. *Evolución de gramáticas bidimensionales de contexto libre para el diseño de arquitecturas de redes de neuronas artificiales*, Miguel A. Guinea, Araceli Sanchis, José M. Molina, *Inteligencia Artificial*, Revista Iberoamericana de Inteligencia Artificial. No.17, pp. 33-47, 2002
 10. *A Parallel Genetic Algorithm/Heuristic Based Hybrid Technique for Routing and Wavelength Assignment in WDM Networks*, A. Cagatay Talay, In C. Aykanat et al. (Eds.) *Procs. of ISCIS 2004*, LNCS 3280, pp. 819–826, 2004
 11. *Pareto Evolutionary Neural Networks*, Jonathan E. Fieldsend, Member, IEEE, and Sameer Singh, *IEEE TRANSACTIONS ON NEURAL NETWORKS*, VOL. 16, NO. 2, MARCH 2005
 12. *Artificial Neural Network Development by means of Genetic Programming with Graph Codification*; Daniel Rivero, Julián Dorado, Juan R. Rabuñal, Alejandro Pazos, and Javier Pereira, *TRANSACTIONS ON ENGINEERING, COMPUTING AND TECHNOLOGY VOLUME 15*, pp. 209-214, OCTOBER 2006
 13. *Cooperative Coevolutionary Mixture of Experts*, Minh Ha Nguyen, Phd Thesis, Feb. 2006
 14. *Artificial Neural Network Development by means of Genetic Programming with Graph Codification*, Daniel Rivero, Julián Dorado, Juan R. Rabuñal, Alejandro Pazos, and Javier Pereira, *TRANSACTIONS ON ENGINEERING, COMPUTING AND TECHNOLOGY VOLUME 15* OCTOBER 2006
 15. *Using Genetic Programming for Artificial Neural Network Development and Simplification*, DANIEL RIVERO, JULIAN DORADO, JUAN RABUÑAL, ALEJANDRO PAZOS, *Proceedings of the 5th WSEAS Int. Conf. on COMPUTATIONAL INTELLIGENCE, MAN-MACHINE SYSTEMS AND CYBERNETICS*, Venice, Italy, November 20-22, 2006

- **MALLBA: A Library of Skeletons for Combinatorial Optimisation** – E. Alba, F. Almeida, M. Blesa, C. Cotta, M. Díaz, I. Dorta, J. Gabarró, J. González, C. León, L. Moreno, J. Petit, J. Roda, A. Rojas, F. Xhafa, In *Monien B., Feldmann R. (eds.), Proceedings of the Euro-Par*, Paderborn (GE), LNCS 2400, pp.927-932, 2002
 1. *Towards Structured Parallel Programming*, A.J. Dorta, J.A. González, C. Rodríguez, F. de Sande, Procs. Fourth European Workshop on OpenMP, EWOMP 2002
 2. *Global Computation: Problems and Algorithms*. M.J. Blesa. Diploma d'Estudis Avançats (DEA), Univ. Politècnica de Barcelona, España, 2002
 3. *Estudio Empírico de Operadores de Cruzamiento en un Algoritmo Genético Aplicado al Problema de Steiner Generalizado*, M. Pedemonte, S. Nesmachnow, en Actas del Congreso Argentino de Ciencias de Computación, CACIC 2003
 4. *An asynchronous Branch and Bound skeleton for heterogeneous clusters*, González J. R., León C., Rodríguez C., Recent advances in parallel virtual machine and message passing interface, In Procs. of the European PVM/MPI, vol. 3241, pp. 191-198, 2004
 5. *Easing Message-Passing Parallel Programming Through a Data Balancing Service*, Graciela Román-Alonso, Miguel A. Castro-García, Jorge Buenabad-Chávez, In Springer LNCS 3241/2004, Recent Advances in Parallel Virtual Machine and Message Passing Interface, pp. 295-302, 2004
 6. *Building with ParadisEO Reusable Parallel and Distributed Evolutionary Algorithms*, Cahon S, Melab N, Talbi EG, PARALLEL COMPUTING 30 (5-6): 677-697 MAY-JUN 2004
 7. *ParaDisEO-based Design of Parallel and Distributed Evolutionary Algorithms*, Cahon S, Melab N, Talbi EG, et al., LECTURE NOTES IN COMPUTER SCIENCE 2936: 216-228 2004
 8. *ParadisEO: A framework for the Reusable Design of Parallel and Distributed Metaheuristics*, Cahon S, Melab N, Talbi EG, JOURNAL OF HEURISTICS 10 (3): 357-380 MAY 2004
 9. *Using Parallelism in Experimenting and Fine Tuning of Parameters for Metaheuristics*, M. Blesa, Fatos Xhafa. In ICCS'04 *International Conference in Computer Science*. Lectures Notes in Computer Science, vol. 3036, 429-432, Springer 2004
 10. *Parallel Branch-and-Bound Algorithms*, T.G. Crainic, B. Le Cun, C. Roucairol, in E.-G. Talbi (ed.) *Parallel Combinatorial Optimization*, chapter 1. pp. 1-28, Wiley, Nov. 2006
 11. *Parallel Dynamic Programming*, F. Almeida, D. González, I. Peláez, in E.-G. Talbi (ed.) *Parallel Combinatorial Optimization*, chapter 2pp. 29-51, Wiley, Nov. 2006
 12. *Towards Parallel Design of Hybrids Between Metaheuristics and Exact Methods*, M. Basseur, L. Jourdan and E.-G. Talbi, in E.-G. Talbi (ed.) *Parallel Combinatorial Optimization*, chapter 7, pp. 163-185, Wiley, Nov. 2006
 13. *Two-Dimensional Cutting Stock Problem: shared memory parallelizations*, L. García, C. León, G. Miranda, C. Rodríguez, In procs. of the International Symposium on Parallel Computing in Electrical Engineering PARELEC'06, pp. 438-443, 2006
 14. *Grid Computing for Parallel Bioinspired Algorithms*, Melab, N., Cahon, S., and Talbi, E. *Journal of Parallel Distributed Computing* 66(8):1052-1061, August 2006
- **A Survey of Parallel Distributed Genetic Algorithms** – E. Alba, J.M. Troya, *Complexity* 4(4):31-52, 1999
 1. *Efficient and Accurate Parallel Genetic Algorithms*, E. Cantú-Paz, Kluwer 2000
 2. *A Performance Comparison of Parallel Genetic and Memetic Algorithms using MPI*, Digalakis J., Margaritis K., 2000 (ref. made as technical report)
 3. *A Parallel Memetic Algorithm for Solving Optimization Problems*, Digalakis J., Margaritis K., In *Proceedings of 4th Meta-heuristics International Conference*, July 16-20, Porto-Portugal, vol. I, pp. 121-125, 2001 (ref. made as technical report)

4. *Performance Comparison of Memetic Algorithms*, Digalakis J., Margaritis K., *Journal of Applied Mathematics and Computation*, 158:237-252, 2004 (ref. made as technical report)
5. *Experimental Investigation of Three Distributed Genetic Programming Models*, Marco Tomassini, Leonardo Vanneschi, Francisco Fernández, Germán Galeano, *Lecture Notes in Computer Science*, Volume 2439, Pages 641 - 650, Jan 2002
6. *Discussion on Distributed Genetic Algorithms for Designing Truss Structures*, Y. Tanimura
7. *Parallel strength Pareto multi-objective evolutionary algorithm for optimization problems*, Xiong, S.; Li, F., *Evolutionary Computation*, 2003. CEC '03. The 2003 Congress on , vol.4, pp. 2712- 2718 Vol.4, 8-12 Dec. 2003
8. *SASEGASA: A New Generic Parallel Evolutionary Algorithm for Achieving Highest Quality Results*, Michael Affenzeller, Stefan Wagner, *Journal of Heuristics*, Volume 10, Issue 3, Pages 243 – 267, May 2004
9. *Optimal Blade System Design of a New Concept VTOL Vehicle Using the Departmental Computing Grid System*, Jin Woo Park, Si Hyoung Park, In Seong Hwang, Ji Joong Moon, Youngha Yoon, Seung Jo Kim, *sc*, p. 36, ACM/IEEE SC 2004 Conference (SC'04), 2004
10. *A parallel computing application of the genetic algorithm for lubrication optimization*, Nenzi Wang, *Tribology Letters*, Volume 18, Issue 1, Pages 105 - 112, Jan 2005
11. *Development of Heterogeneous Parallel Genetic Simulated Annealing Using Multi-Niche Crowding*, Z. G. Wang, M. Rahman, Y. S. Wong and K. S. Neo, *Intl. Journal of Computational Intelligence* 3(1):55-62, 2006
12. *Analysis and Development of High Performance Genetic Algorithms for Single-objective Optimization*, S. Tiwari
13. *Structural break estimation for nonstationary time series models*, Davis, R.A., Lee, T.C.M., Rodriguez-Yam, G.A., *J. of the American Statistical Association* 101 (473), pp. 223-239, 2006
14. *Initial approaches to the application of islands-based parallel EDAs in continuous domains*. delaOssa, L., Gámez, J. A., and Puerta, J. M., *Journal of Parallel and Distributed Computing* 66(8):991-1001, Aug. 2006

• **Genetic Algorithms as Heuristics for Optimizing ANN Design** – E. Alba, J.F. Aldana, J.M. Troya, *Artificial Neural Nets and Genetic Algorithms I*, R.F. Albrecht, C.R. Reeves, N.C. Steele (eds.), Springer-Verlag, Innsbruck, pp. 683-690, 1993

1. *Evolutionary Design of Neural Architectures: A Preliminary Taxonomy and Guide to Literature*, Balakrishnan, K. and Honavar, V., 1995
2. *Integrating evolutionary computation with neural networks*, Vonk, E. , Jain, L.C., Veelenturf, L.P.J., and Hibbs, R. *Electronic Technology Directions to the Year 2000*, 1995. Proceedings, pp. 137-143, 23-25 May 1995
3. *Elegance: Genetic Algorithms in Neural Reinforcement Control*, Pieter Spronck, Master-thesis (Delft University of Technology) <http://www.cs.unimaas.nl/p.spronck/Pubs/Elegance.pdf>, 1996
4. *An Indexed Bibliography of Genetic Algorithms Papers of 1993*, J. t. Alanader, 1996
5. *Automatically adjusting crossover ratios of multiple crossover operators*, T.-P. Hong and H.-S. Wang, *Journal of Information Science and Engineering* 14(2): 369-390, June 1998
6. *Hybrid Soft Computing Systems: Industrial and Commercial Applications*, Bonissone PP, Chen YT, Goebel K, et al. *Proceedings of the IEEE* 87(9): 1641-1667, SEP 1999
7. *Simultaneously Applying Multiple Mutation Operators in Genetic Algorithms*, Hong TP, Wang HS, Chen WC. *Journal of Heuristics* 6(4):439-455 SEP, 2000
8. *Automatic Test Data Generation for Path testing Using GAs*, Lin JC, Yeh PL *Information Sciences* 131(1-4): 47-64, JAN 2001

9. *An Indexed Bibliography of Genetic Algorithms and Neural Networks*, J. T. Alander, 2001
 10. *A Multi-agent Approach to Fixture Design*, Subramaniam V, Kumar AS, Seow KC, *Journal of Intelligent Manufacturing*, 12(1): 31-42, MAR 2001
 11. *Hybrid Computational Intelligence Schemes in Complex Domains: An Extended Review*, A. Tsakonas, G. Dounias, in I.P. Vlahavas and C.D. Spyropoulos (Eds.) *Proceedings of SETN 2002*, LNAI 2308, pp. 494-512, 2002
 12. *Hierarchical Gene-Set Genetic Algorithms for Optimization*, Min-Thai Wu, Master-thesis (National University of Kaohsiung) <http://scholar.google.es/url?sa=U&q=http://ethesys.nuk.edu.tw/ETD-db/ETD-search/getfile%3FURN%3Detd-0807106-180209%26filename%3Detd-0807106-180209.pdf>
 13. *Soft-Computing Based Control Schemes for QoS in Communication Networks*. Kimmo Pulakka, Thesis (Tampere University of Technology), <http://www.cs.tut.fi/tlt/npg/icefin/documents/Kimmon-phdkirja.pdf>, 2002
- **Genetic Algorithms for Protocol Validation** – E. Alba, J.M. Troya, *Proceedings of the PPSN IV International Conference*, H.M. Voigt, W. Ebeling, I. Rechenberg, H.-P. Schwefel (eds), Springer-Verlag, Berlin, pp 870-879, 1996
 1. *GA-based Performance Analysis of Network Protocols*, M. Baldi, F. Corno, M. Rebaudengo, G. Squillero, *Procs. of ICTAI'97*, pp. 118-124, 1997
 2. *Simulation-based Verification of Network Protocols Performance*, M. Baldi and F. Corno and M. Rebaudengo and P. Prinetto and M. Sonza Reorda and G. Squillero, in *Procs. of the Conference on Correct Hardware Design and Verification Methods*, pp. 236-251, 1997
 3. *Searching Protection Relay Response Time Extremes using Genetic Algorithm - Software Quality by Optimization*, Jarmo T. Alander, Timo Mantere, and Ghodrat Moghadampour, Jukka Matila, In *Proceedings of the 4th International Conference on Advances in Power System Control, Operation and Management, APSCOM-97*, Hong Kong, November 1997
 4. *Searching Protection Relay Response Time Extremes Using Genetic Algorithm - Software Quality by Optimization*, Alander JT, Mantere T, Moghadampour G, Matila J., *Electric Power Systems Research* 46(3): 229-233, SEP 1 1998
 5. *An Indexed Bibliography of Genetic Algorithms in the Latin America, Portugal and Spain*, J.T. Alander, 1999
 6. *An Indexed Bibliography of Genetic Algorithms Papers of 1996 (in procs.)*, J.T. Alander, 1999
 7. *Telecommunications Optimization: Heuristic and Adaptive Techniques*, D.W. Corne, M.J. Oates y G.D. Smith, Wiley 2000
 8. *GA-based Verification of Network Protocols Performance*, M. Baldi, F. Corno, M. Rebaudengo, M. Sonza Reorda, G. Squillero
 9. *Genetic Algorithms: A Bibliography*. D. Goldberg et al. IlliGAL Report #2000032, University of Illinois at Urbana-Champaign, December 2000
 10. *Improved Design Verification by Random Simulation Guided by Genetic Algorithms*, P. Faye1, E. Cernyl, P. Pownall2, in *Procs. of ICDA/APChDL, IFIP World Comp. Congress*, May 25th 2000
 11. *Performance of TCP over satellite networks under severe cross-traffic using GA*, S. Karthik, V. Jawahar Senthilkumar, B. Chidambararajan, S.K. Srivatsa, *International Journal of Mobile Communications* 2(4):382 – 394, 2004
 12. *Evolutionary Computing in Telecommunication: A likely EC success story*, Peter Kampstra, Technical Report at the Vrije Universiteit Amsterdam, August 2005
 - **Parallel Evolutionary Algorithms Can Achieve Super-Linear Performance** – E. Alba, *Information Processing Letters* 82(1):7-13, 2002
 1. *Applying Memetic Algorithms to the Analysis of Microarray Data*, Cotta, C., Mendes, A., Garcia, V., Frana, P. & Moscato, P. In G. Raidl et al. (eds.) *Proceedings of EvoBIO2003 - 1st European*

Workshop on Evolutionary Bioinformatics, Lecture Notes in Computer Science 2611, pp. 22-32, Springer-Verlag, Colchester, England, 2003

2. *Parallelization of Evolutionary Algorithms in Peer-to-Peer Environment*, Annemari Auvinen, Niko Kotilainen, Mikko Vapa, T.R. TIE331, Univ. JYU (Finland), 15.12.2003
 3. *Parallel genetic algorithms: Advances, computing trends, applications and perspectives*, Konfršt, Z., Proceedings - International Parallel and Distributed Processing Symposium, IPDPS 2004 (Abstracts and CD-ROM) 18, pp. 2303-2310, 2004
 4. *Parallel evolutionary algorithms: Advances*, Konfršt, Z., Soft Computing with Industrial Applications - Proceedings of the Sixth Biannual World Automation Congress pp. 429-434, 2004
 5. *On super-linearity in parallel genetic algorithms*, Konfršt, Z., Proceedings of the IASTED International Conference on Neural Networks and Computational Intelligence pp. 96-101, 2004
 6. *Una Versión Paralela del Algoritmo Evolutivo para Optimización Multiobjetivo NSGA-II y su Aplicación al Diseño de Redes de Comunicaciones Confiables*, S. Nesmachnow, T.R. 0403, Univ. de La República, Uruguay 2004.
 7. *A Complete Bibliography of Publications in Information Processing Letters*, Nelson H. F. Beebe, T.R. at the Center for Scientific Computing, University of Utah, Version 2.06, 26 January 2004
 8. *O Framework NP-Opt e suas Aplicacoes a Problemas de Otimizacao*, Alexandre de Sousa Mendes, PhD Dissertation, Univ. de Campinas, Brazil, 2003
 9. *Gene ordering in microarray data using parallel memetic algorithms*, Mendes, A.; Cotta, C.; Garcia, V.; Franca, P.; Moscato, P., *ICPP 2005 Workshops. International Conference Workshops on Parallel Processing*, pp. 604- 611, 14-17 June 2005
 10. *Un Algoritmo Evolutivo Multiobjetivo Paralelo Aplicado al Diseño de Redes de Comunicaciones Confiables*, S. Nesmachnow, en Actas de MAEB'05, Thomson, pp. 145-152, 2005
 11. *Analysis of Scalable Parallel Evolutionary Algorithms*, Jun He and Xin Yao. In G. Yen (ed.) *IEEE Procs. of CEC'06*, IEEE Press, pp. 427-434, 2006
- **Improving Flexibility and Efficiency by Adding Parallelism to Genetic Algorithms** – E. Alba, J.M. Troya, *Statistics and Computing* 12(2):91-114, 2002
1. *Considerations in engineering parallel multiobjective evolutionary algorithms*, Van Veldhuizen, D.A., Zydallis, J.B., Lamont, G.B., *IEEE Transactions on Evolutionary Computation* 7 (2), pp. 144-173, 2003
 2. *Using Parallelism in Experimenting and Fine Tuning of Parameters for Metaheuristics*, M. Blesa, Fatos Xhafa. In *ICCS'04 International Conference in Computer Science*. Lectures Notes in Computer Science, vol. 3036, 429-432, Springer 2004
 3. *A general Framework to Understand Parallel Performance in Heterogeneous Clusters: Analysis of a New Adaptive Parallel Genetic Algorithm*, V.E. Bazterra, M. Cuma, M.B. Ferraro, J.C. Facelli, *Journal of Parallel and Distributed Computing* 65:48-57, 2004
 4. *Parallel genetic algorithms: Advances, computing trends, applications and perspectives*, Konfršt, Z., Proceedings - International Parallel and Distributed Processing Symposium, IPDPS 2004 (Abstracts and CD-ROM) 18, pp. 2303-2310, 2004
 5. *Parallel evolutionary algorithms: Advances*, Konfršt, Z., Soft Computing with Industrial Applications – Procs. of the Sixth Biannual World Automation Congress, pp. 429-434, 2004
 6. *Parallel genetic algorithms: Advances, computing trends, applications and perspectives*, Konfršt, Z., Proceedings - International Parallel and Distributed Processing Symposium, IPDPS 2004 (Abstracts and CD-ROM) 18, pp. 2303-2310, 2004
 7. *Strong Definition of Performance Metrics and Parallel Genetic Algorithms*, Z. Konfršt, M. Jirina, Proceedings of the IX. PhD. Conference Institute of Computer Science, Academy of Sciences of

the Czech Republic, pp 41-49, 2004

8. *Structural break estimation for nonstationary time series models*, Davis, R.A., Lee, T.C.M., Rodriguez-Yam, G.A., *J. of the American Statistical Association* 101 (473), pp. 223-239, 2006
9. *On Improved Parallel Immune Quantum Evolutionary Algorithm Based on Learning Mechanism*, Xiaoming You, Sheng Liu, Dianxun Shuai, In *Proc. of the Sixth International Conference on Intelligent Systems Design and Applications*, ISDA '06, vol. 1, pp. 908-913, 2006
10. *Parallel Immune Quantum Evolution Algorithm Based on Learning Mechanism*, You Xiaoming Liu Sheng Shuai Dianxun, *JOURNAL OF NANJING UNIVERSITY OF AERONAUTICS & ASTRONAUTICS*, Vol.38 No.z1, pp.79-82, 2006
11. *On parallel immune quantum evolutionary algorithm based on learning mechanism and its convergence*, You X., Liu S., Shuai D., *Lecture Notes in Computer Science* 4221, pp. 903-912

• **Heterogeneous Computing and Parallel Genetic Algorithms** – E. Alba, A.J. Nebro, J.M. Troya, *Journal of Parallel Distributed Computing* 62(9):1362-1385, 2002

1. *A general Framework to Understand Parallel Performance in Heterogeneous Clusters: Analysis of a New Adaptive Parallel Genetic Algorithm*, V.E. Bazterra, M. Cuma, M.B. Ferraro, J.C. Facelli, *Journal of Parallel and Distributed Computing* 65(1):48-57, 2004
2. *Using distributed genetic algorithms for solving job shop scheduling problems*, Shah, N., Koonce, D., *IIE Annual Conference and Exhibition 2004* pp. 2217-2222, 2004
3. *Parallel genetic algorithms: Advances, computing trends, applications and perspectives*, Konfršt, Z., *Proceedings - International Parallel and Distributed Processing Symposium, IPDPS 2004 (Abstracts and CD-ROM)* 18, pp. 2303-2310, 2004
4. *Parallel evolutionary algorithms: Advances*, Konfršt, Z., *Soft Computing with Industrial Applications - Proceedings of the Sixth Biannual World Automation Congress* pp. 429-434, 2004
5. *Distribution of Evolutionary Algorithms in Heterogeneous Networks*, Jürgen Branke, Andreas Kamper, and Hartmut Schmeck, In K. Deb et al. (Eds.) *Proc. of GECCO 2004*, LNCS 3102, pp. 923-934, 2004
6. *A Grid-Oriented Genetic Algorithm*, J. Herrera, E. Huedo, R.S.Montero and I.M. Llorente, *Advances in Grid Computing - EGC 2005*, 315-322, 2005
7. *Evolutionary Computing in Telecommunications*, P. Kampstra, Technical Report, Faculty of Sciences, Vrije Universiteit, Amsterdam, 2005, <http://www.few.vu.nl/onderwijs/stage/werkstuk/werkstukken/index.php>
8. *Evolutionäre multikriterielle Optimierung komplexer wasserwirtschaftlicher Systeme*, Dirk Muschalla, Thesis, 2006
9. *Efficient Hierarchical Parallel Genetic Algorithms Using Grid Computing*, D. Lim, *Y. S. Ong*, Y. Jin, B. Sendhoff and B. S. Lee, *Future Generation Computer Systems: The International Journal of Grid Computing: Theory, Methods and Applications* (doi:10.1016/j.future.2006.10.008) Accepted 2006.
10. *Parallelisation of genetic algorithms for the 2-page crossing number problem*, Hongmei He, Ondrej Sýkora, Ana Salagean and Erkki Mäkinen, *Journal of Parallel and Distributed Computing, Volume 67, Issue 2, Pages 229-241, February 2007*
11. *Galapagos: a Distributed Parallel Evolutionary algorithm Development Platform*, Nicolas Jeremie Kruchten, Thesis (<http://nicolas.kruchten.com/thesis.pdf>)

• **Parallel Metaheuristics: A New Class of Algorithms** – E. Alba (ed. y escritor), ISBN 0-471-67806-6, Wiley 2005

1. *Nature-inspired components of the scatter search*, Cano, D.B.; Santana, J.B.; Rodriguez, C.C.; del

Amo, I.J.G.; Torres, M.G.; Garca, F.J.M.; Batista, B.M.; Pérez, J.A.M.; Vega, J.M.M. & Martn, R.R. in 'Proceedings of the First European Symposium on Nature-inspired Smart Information Systems (Ni SIS)', 2005

2. *Global Optimization of Atomic Cluster Structures Using Parallel Genetic Algorithms*, Facelli, J., in 'Combinatorial Methods and Informatics in Materials Science (MRS Proceedings)', 2005
3. *Using a Parallel Virtual Machine to Optimize Lighting Systems*, Kasprzyk, L.; Nawrowski, R. & Tomczewski, A. in 'International Symposium on Parallel Computing in Electrical Engineering', pp. 427 – 432, 2006
4. *Parallel Ant Colony Optimization for the Traveling Salesman Problem*, Manfrin, M.; Birattari, M.; Stützle, T. & Dorigo, M. Dorigo; L. M. Gambardella; M. Birattari; A. Martinoli; R. Poli & T. Stützle, ed., 'Ant Colony Optimization and Swarm Intelligence, 5th International Workshop, ANTS 2006', Springer-Verlag, Berlin, Germany, pp. 224—234, (2006)
5. *Parallel Multicolony ACO Algorithm With Exchange of Solutions*, Manfrin, M.; Birattari, M.; Stützle, T. & Dorigo, M., in P.-Y. Schobbens; W. Vanhoof & G. Schwanen, ed., 'Proceedings of BNAIC 2006, the 18th Belgium-- Netherlands Conference on Artificial Intelligence', pp. 409—410, 2006
6. *Parallel implementation of Estimation of Distribution Algorithms based on probabilistic graphical models. Application to chemical calibration models*, Mendiburu-Alberro, A. PhD thesis, Department of Computer Architecture and Technology, 2006
7. *High Performance Computing in Finance --- On the Parallel Implementation of Pricing and Optimization Models*, Moritsch, H. PhD thesis, Institut für Softwaretechnik und Interaktive Systeme eingereicht an der Technischen Universität Wien. Fakultät für Informatik, 2006
8. *A Unified View on Hybrid Metaheuristics*, Raidl, G.R. in 'Hybrid Metaheuristics', Springer, pp. 1-12, 2006
9. *Collaborating Variable Neighbourhood Search Algorithms for Job Shop Scheduling Problems*, Sevkli, M. & Aydin, M.E. in 'Proceedings of the 5th International symposium on Intelligent Manufacturing systems', pp. 450-461 2006
10. *Towards Parallel Design of Hybrids Between Metaheuristics and Exact Methods*, M. Basseur, L. Jourdan and E.-G. Talbi, in E.-G. Talbi (ed.), *Parallel Combinatorial Optimization*, Chapter 7, pp. 163-185, Wiley, Nov. 2006
11. *Initial approaches to the application of islands-based parallel EDAs in continuous domains*. de la Ossa, L., Gámez, J. A., and Puerta, J. M., *Journal of Parallel and Distributed Computing* 66(8):991-1001, Aug. 2006

• **Training Neural Networks with GA Hybrid Algorithms** – E. Alba and J. F. Chicano. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. K. Burke, P. J. Darwen, D. Dasgupta, D. Floreano, J. A. Foster, M. Harman, O. Holland, P. Luca Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. M. Tyrrell, editors, *GECCO 2004: Proceedings of the Genetic and Evolutionary Computation Conference*, LNCS 3102, pp. 852–863. Springer Verlag, 2004

1. *Novel approaches to probabilistic neural networks through bagging and evolutionary estimating of prior probabilities*, Georgiou, VL; Alevizos, PD; Vrahatis, MN, *Neural Processing Letters* 27 (2): 153-162 APR 2008.
2. *A New Approach for Training of Artificial Neural Networks using Population Based Incremental Learning (PBIL)*, Mehdi Salmani Jelodar, Seid Mehdi Fakhraie, Majid Nili Ahmadabadi, *TRANSACTIONS ON ENGINEERING, COMPUTING AND TECHNOLOGY* V1 DECEMBER 2004 ISSN 1305-5313, 2004
3. *Training Feed-forward Neural Networks with Ant Colony Optimization: An application to Pattern Classification*, C. Blum, Krzysztof Socha, In *IEEE Fifth International Conference on Hybrid Intelligent Systems (HIS'05)*, pp. 233-238, IEEE Computer Society, 2005

4. *GAILS: Guided Adaptive Iterated Local Search — Method and Framework*. Klaus Varrentrapp, T.U. Darmstadt, Technical Report AIDA-04-05, 2005
 5. *Evolution of Architecture and Weights of ANN using Variable Length GA*, Mrityunjay Gautam, International Conference on Cognitive Systems, New Delhi, December 14-15, 2005
 6. *An Analysis Of PSO Hybrid Algorithms For Feed-Forward Neural Networks Training*, Carvalho, M.; Ludermir, T.B.; Neural Networks, 2006. SBRN '06. Ninth Brazilian Symposium on Oct. 2006 Page(s):2 – 2, 2006
 7. *SEFNN-A feed-forward neural network design algorithm based on structure evolution*, N. Li, Z. Xie, J. Xie, S. Chen, Jisuanji Yanjiu yu Fazhan/Computer Research and Development, Volume 43, Issue 10, Pages 1713-1718 , 20063 , October 2006
 8. *Ant Colony Optimization*, K. Socha, C. Blum, in *Metaheuristic Procedures for Training Neural Networks*, chapter 8, pp. 153-180, Springer-Verlag, 2006
 9. *Estimation of Distribution Algorithms*, J. Madera, B. Dorronsoro, in *Metaheuristic Procedures for Training Neural Networks*, chapter 5, pp. 87-108, Springer-Verlag, 2006
 10. *An ant colony optimization algorithm for continuous optimization: application to feed-forward neural networks*, K Socha, C Blum, *Neural Computing & Applications*, 2007 - Springer
- **Solving the Error Correcting Code Problem with Parallel Hybrid Heuristics** – E. Alba, J. F. Chicano. In *ACM (ed.), Proceedings of ACM SAC'04*, Nicosia, Cyprus, Vol 2, pp. 985-989, 2004
 1. *A Genetic Algorithm to Design Error Correcting Codes*, María D. Jaraíz Simón, Juan A. Gómez Pulido, Miguel A. Vega Rodríguez, Juan M. Sánchez Pérez, José M. Granado Criado, in IEEE Press, Proceedings of the MELECON, pp. 807-810, 2006
 2. *Combining ILS with an Effective Constructive Heuristic for the Application to Error Correcting Code*, C. Blum, M. J. Blesa, Andrea Roli, In *Proceedings of the 6th Metaheuristics International Conference*, pp. 114-119, Vienna, Austria
 3. *Scatter Search and Memetic Approaches to the Error Correcting Code Problem*, Carlos Cotta, Lecture Notes in Computer Science 3004, pp. 51-61, Springer-Verlag, 2004
 4. *Evolutionary Computing in Telecommunications*, P. Kampstra, Technical Report, Faculty of Sciences, Vrije Universiteit, Amsterdam, 2005, <http://www.few.vu.nl/onderwijs/stage/werkstuk/werkstukken/index.php>
 5. *Applications of Parallel Metaheuristics to Optimization Problems in Telecommunications and Bioinformatics*, S.L. Martins, C.C. Ribeiro, I. Rosseti, in E.-G. Talbi (ed.), *Parallel Combinatorial Optimization*, chapter 12, pp. 301-325, Wiley, Nov. 2006
 6. *Metaheuristics for optimization problems in computer communications*, CC Ribeiro, SL Martins, I Rosseti, *Computer Communications*, Volume 30, Issue 4, 26 February 2007, Pages 656-669
 7. *Tackling the Error Correcting Code Problem Via the Cooperation of Local-Search-Based Agents*, Jhon Edgar Amaya, Carlos Cotta, Antonio J. Fernández, *Nature Inspired Problem-Solving Methods in Knowledge Engineering*, LNCS 4528/2007, 490-500, 2007
 8. *Iterated local search and constructive heuristics for error correcting code design*, Christian Blum, *International Journal of Innovative Computing and Applications* 2007 - Vol. 1, No.1 pp. 14 – 22.
 - **New ideas in applying scatter search to multiobjective optimization** - A. J. Nebro, F. Luna, and E. Alba, in C.A. Coello, A. Hernández, and E. Zitzler, editors, *Third International Conference on Evolutionary MultiCriterion Optimization*, EMO 2005, volume 3410 of Lecture Notes in Computer Science, pages 443 – 458. Springer, 2005
 1. R. Baños, C. Gil, J. Reca, and J. Martínez. *Implementation of scatter search for multi-objective optimization: a comparative study*. Computational Optimization and Applications (to appear), 2008

2. D. M. Jaeggi, G. T. Parks, T. Kipouros, and P. J. Clarkson. *The development of a multi-objective tabu search algorithm for continuous optimisation problems*. European Journal of Operational Research, 185:1192 – 1212, 2008
 3. C. A. Coello, G. B. Lamont, and D. A. Van Veldhuizen. *Evolutionary Algorithms for Solving Multi-Objective Problems*. Genetic and Evolutionary Computation Series. Springer, second edition, 2007
 4. X. Zheng, H. Duan, and H. Liu. *A study of web-based multi-objective collaborative design synthesis and its evaluation*. In Proceedings of the 2007 11th International Conference on Computer Supported Co-operative Work in Design, pages 214 – 219. IEEE Press, 2007
 5. X. Zheng, H. Duan, and H. Liu. *A hybrid multi-objective evolutionary algorithm and its application in component-based product design*. In Eighth ACIS International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing, pages 570 – 575. IEEE Press, 2007
 6. R. Baños. *Meta-heurísticas Híbridas para Optimización Mono-objetivo y Multi-objetivo. Paralelización y Aplicaciones*. PhD thesis, Universidad de Almería, Departamento de Arquitectura de Computadores y Electrónica, 2006
 7. N. A. Ramírez. *Una nueva propuesta para optimización multiobjetivo basada en búsqueda dispersa (scatter search)*. Master's thesis, Centro De Investigación Y de Estudios Avanzados del Instituto Politécnico Nacional, Departamento de Computación, 2006
- **Solving the Vehicle Routing Problem by Using Cellular Genetic Algorithms** - E. Alba, B. Dorronsoro, in J. Gottlieb and G. R. Raidl, editores, *Evolutionary Computation in Combinatorial Optimization EvoCOP04*, **LECTURE NOTES IN COMPUTER SCIENCE** volumen 3004, Coimbra, Portugal, Springer-Verlag, pp 11-20, 2004. ISSN 0302-9743
 1. *A vehicle routing problem solved by using a hybrid genetic algorithm*, G. Jeon, H.R. Leep, J.Y. Shim, *Computers & Industrial Engineering* 53(4):680-692, 2007.
 2. *Object and pose recognition with cellular genetic algorithms*. T. Mantere, In David P. Casasent, Ernest L. Hall, Juha Röning (eds.), *Intelligent Robots and Computer Vision XXV: Algorithms, Techniques, and Active Vision, Optics East 2007 (OE07)*, Boston (Massachusetts, USA), 9–12 Sept. 2007. Proceedings of SPIE, Vol. 6764, pages 67640N-1–10.
 3. *A Vehicle Routing Problem Solved by Usin a Hybrid Genetic Algorithm*, G. Jeon, H.R. Leep, J.Y. Shim, *Computers and Industrial Engineering* 53(4), pp. 680-692, Noviembre de 2007. ISSN: 0360-8352.
 4. *Edge Assembly Crossover for the Capacitated Vehicle Routing Problem*, Y. Nagata, C. Cotta and J. van Hemert, editores, *Evolutionary Computation in Combinatorial Optimization EvoCOP07*, LNCS volumen 4446, pp. 142–153, 2007. ISSN 0302-9743T.
 5. *Parallel Meta-heuristics applications*, G. Crainic, N. Hail, *Parallel Metaheuristics: A New Class of Algorithms*, E. Alba (ed.), Capítulo 19, pp. 447-494, 2006. ISBN 0-471-67806-6
 6. *Exact and Memetic Algorithms for Two Network Design Problems*. I. Ljubić, PhD thesis, Faculty of Computer Science, Vienna University of Technology, November 2004.
 - **Parallel Heterogeneous Genetic Algorithms for Continuous Optimization** – E. Alba, F. Luna, A.J. Nebro, J.M. Troya, *Parallel Computing*, 30(5-6):699-719, 2004
 1. J-M. Li, X-J. Wang, R-S. He, and Z-X. Chi. *An efficient fine-grained parallel genetic algorithm based on GPU-Accelerated*. In IFIP Inter-national Conference on Network and Parallel Computing Workshops, pages 855 – 862, 2007.
 2. J. R. Bilbao-Castro, A. Merino, I. García, J. M. Carazo, and J. J. Fernández. *Parameter optimization in 3D reconstruction on a large scale grid*. *Parallel Computing*, 33:250 – 263, 2007.
 3. W.R. Britt and G.V. Dozier. *A meta-parallel evolutionary system for solving optimization problems*. In Proceeding (574) *Computational Intelligence -2007*, 2007
 4. W. Stach, L. Kurgan, and W. Pedrycz. *Parallel genetic learning of fuzzy cognitive maps*. In *International Joint Conference on Neural Networks (IJCNN 2007)*, pages 1584 – 1589, 2007
 5. W. Stach. *Parallel genetic learning of fuzzy cognitive maps*. Technical report, IEEE-CIS Walter Karplus Summer Research Grant, 2006

6. *Application of parallel computing to stochastic parameter estimation in environmental models*, J.A. Vrugt, B. Ó. Nualláin, B.A. Robinson, W. Bouten, S.C. Dekker, P. M.A. Sloot. *Computers & Geosciences*, 32(8):1139 – 1155, 2006
- **The Influence of Grid Shape and Asynchronicity on Cellular Evolutionary Algorithms** - B. Dorronsoro, E. Alba, M. Giacobini, M. Tomassini, in IEEE Conference on Evolutionary Computation, CEC04, Y. Shi (ed.), Portland, Oregon, USA. IEEE Press, pp. 2152-2158, 2004. ISBN 0-7803-8515-2
 1. *Effects of Scale-Free and Small-World Topologies on Binary Coded, Self-Adaptive CEA*, M. Giacobini, M. Preuss, M. Tomassini, in J. Gottlieb and G. R. Raidl (eds.), *Evolutionary Computation in Combinatorial Optimization EvoCOP06*, LNCS volumen 3906, pp. 86-98. 2006. ISBN 3-540-33178-6
 2. *Evolution of Small-World Networks of Automata for Computation*, M. Tomassini, M. Giacobini, C. Darabos, in *Parallel Problem Solving from Nature - PPSN VIII: 8th International Conference*, volumen 3242 of LNCS, pp. 672-681, Birmingham, UK, 2004. ISBN: 3-540-23092-0
 3. *Spatially Structured Evolutionary Algorithms: Artificial Evolution in Space and Time*, M. Tomassini, Springer, Berlin, Heidelberg, New York, 2005
 4. *Artificial Evolution on Network Structures*, M. Giacobini, *Tesis Doctoral*, 2005. 3-540-23092-0.
 5. *A Case Study on Evolutionary Cellular Automata Algorithm for Function Optimization*, J. Hongwei, H. Yianxiang, Z. Bojin, *Computer Engineering and Applications* 41(26):54-57, 2005. ISSN 1002-8331.
 - **Evolutionary Design of Fuzzy Logic Controllers** – C. Cotta, E. Alba, J.M. Troya, *1996 IEEE International Symposium on Intelligent Control*, IEEE Control Systems Society, Dearborn MI, pp. 127-132, 1996
 1. *An Indexed Bibliography of Genetic Algorithms with Fuzzy Logic*, J.T. Alander in W. Pedrycz (ed.), *Fuzzy Evolutionary Computation*, Kluwer Academic, pp. 299-318, 1997
 2. *An Indexed Bibliography of Genetic Algorithms in the Latin America, Portugal and Spain*, J.T. Alander, 1999
 3. *An Indexed Bibliography of Genetic Algorithms Papers of 1996 (in procs.)*, J.T. Alander, 1999
 4. *A Scheme for the Evolution of Feedforward Neural Networks using BNF-Grammar Driven Genetic Programming*, A. Tsakonas and G. Dounias, 20
 5. *Genetic Programming for the Generation of Crisp and Fuzzy Rule Bases in Classification and Diagnosis of Medical Data*, G. Dounias, A. Tsakonas, J. Jantzen, H. Axer, B. Bjerregaard, D. Graf von Keyserlingk, 2002
 - **Parallel Evolutionary Algorithms in Telecommunications: Two Case Studies** – E. Alba, C. Cotta, F. Chicano, and A. J. Nebro, in *Proceedings of the CACIC'02*, Buenos Aires, Argentina, 2002.
 1. *Evolutionary Computing in Telecommunications*, P. Kampstra, Technical Report, Faculty of Sciences, Vrije Universiteit, Amsterdam, 2005, <http://www.few.vu.nl/onderwijs/stage/werkstuk/werkstukken/index.php>
 2. *A Hybrid Hopfield Network-Genetic Algorithm Approach for the Terminal Assignment Problem*, S. Salcedo-Sanz, X. Yao, *IEEE Transactions on Systems, Man, and Cybernetics—Part B: Cybernetics*, 34(6), pp. 2343-2353, Diciembre 2004, IEEE Computer Society
 3. *Applications of Parallel Metaheuristics to Optimization Problems in Telecommunications and Bioinformatics*, S.L. Martins, C.C. Ribeiro, I. Rosseti, in E.-G. Talbi (ed.), *Parallel Combinatorial Optimization*, chapter 12, pp. 301-325, Wiley, Nov. 2006
 4. *Scatter Search and Memetic Approaches to the Error Correcting Code Problem*, Carlos Cotta, *Evolutionary Computation in Combinatorial Optimization*, LNCS 3004, 51-61, 2004.
 5. *Metaheuristics for optimization problems in computer communications*, CC Ribeiro, SL Martins, I Rosseti, *Computer Communications*, Volume 30, Issue 4, 26 February 2007, Pages 656-669
 - **Observations in using grid-enabled technologies for solving multi-objective optimization problems** – F. Luna, A. J. Nebro, and E. Alba, *Parallel Computing*, 32(5-6):377 – 393, June 2006.

1. Q. Liang, Y. Yang, and L. Liu. *A service-oriented grid model with quality of service provision*. *Information and Control*, 36(4):401 – 409, 2007
 2. M. Sayeed, K. Mahinthakumar, and N. T. Karonis. *Grid-enabled solution of groundwater inverse problems on the TeraGrid network*. *Simulation*, 83(6):437 – 448, 2007
 3. J. R. Bilbao-Castro, A. Merino, I. García, J. M. Carazo, and J. J. Fernández. *Parameter optimization in 3D reconstruction on a large scale grid*. *Parallel Computing*, 33:250 – 263, 2007
 4. S. Mostaghim, J. Branke, and Hartmut Schmeck. *Multi-objective particle swarm optimization on computer grids*. In *Genetic and Evolutionary Computation Conference (GECCO 2007)*, pages 869 – 875, 2007.
 5. F. Gao, G. Cui, and H-W. Liu. *Integration of genetic algorithm and cultural algorithms for constrained optimization*. In *13th International Conference Neural Information Processing, ICONIP 2006*, volume 4234 of *Lecture Notes in Computer Science*, pages 817 – 825, 2006
- **ACO vs EAs for solving a real-world frequency assignment problem in GSM networks** – 3 F. Luna, C. Blum, E. Alba, and A. J. Nebro. *Genetic and Evolutionary Computation Conference (GECCO 2007)*, pages 94 – 101, 2007
 1. J. M. Chaves-González, D. Domínguez-González, M. A. Vega-Rodríguez, J. A. Gómez-Pulido, and J. M. Sánchez-Pérez. *SS vs PBIL to Solve a Real-World Frequency Assignment Problem in GSM Networks*. In *EvoComnet 2008* (to appear).
 2. J. M. Chaves-González, D. Domínguez-González, M. A. Vega-Rodríguez, J. A. Gómez-Pulido, and J. M. Sánchez-Pérez. *Parallelizing PBIL for solving a real-world frequency assignment problem in GSM networks*. In *Proceedings of the 16th Euromicro Conference on Parallel, Distributed and Network-Based Processing (PDP 2008)*, pages 391 – 398, 2008.
 3. J. M. Chaves-González, D. Domínguez-González, M. A. Vega-Rodríguez, J. A. Gómez-Pulido, and J. M. Sánchez-Pérez. *Using cluster computing to solve a real-world FAP problem*. In *Parallel and Distributed Computing and Networks -2008, 2008*
 4. D. Domínguez-González, J. M. Chaves-González, M. A. Vega-Rodríguez, J. A. Gómez-Pulido, and J. M. Sánchez-Pérez. *Using PBIL for solving a real-world frequency assignment problem in GSM networks*. In *13th Portuguese Conference in Artificial Intelligence (EPIA 2007)*, 2007
 - **Parallel Heterogeneous Genetic Algorithms for Continuous Optimization** – E. Alba, F. Luna and A. J. Nebro, in *Proc. Parallel and Distributed Processing Symposium (NIDISC'03)*, pp. 7, 2003.
 1. A. Guillén. *Diseño de sistemas inteligentes en plataformas de cómputo paralela*. PhD thesis, Departamento de Arquitectura y Tecnología de Computadores, Universidad de Granada, 2007
 2. M. Kim, V. Aggarwal, U-M. Reilly, and M. Médard. *A doubly distributed genetic algorithm for network coding*. In *Genetic and Evolutionary Computation Conference (GECCO 2007)*, pages 1272 – 1279, 2007
 3. G. Zhang, G. Zhang, J. Ma, and C. Zhou. *Three real-coded genetic algorithms with new mutation operators*. In *Proc. of the Int. Conf. on Intelligent Systems and Knowledge Engineering (ISKE 2007)*, *Advances in Intelligent Systems Research*. Atlantis Press, 2007
 4. *Hybrid Real-Coded Genetic Algorithm with Quasi-Simplex Technique*, G. Zhang, H. Lu, *IJCSNS International Journal of Computer Science and Network Security* 6(10), October 2006
 - **Evolutionary design of fuzzy logic controllers using strongly-typed GP** – E. Alba, C. Cotta, and J. M. Troya. *Mathware & Soft Computing*, 6(1):109-124, 1999
 1. *Ten Years of Genetic Fuzzy Systems: Current Framework and New Trends*, O. Cordon, F. Herrera, F. Gomide, F. Hoffmann, L. Magdalena, 2001

2. *Genetic Fuzzy Systems*, O. Cordón, F. Herrera, F. Hoffmann, L. Magdalena, World Scientific, 2001
 3. *Hybrid Computational Intelligence Schemes in Complex Domains: An Extended Review*, A. Tsakonas, G. Dounias, in I.P. Vlahavas and C.D. Spyropoulos (Eds.) Proceedings of SETN 2002, LNAI 2308, pp. 494-512, 2002
- **Influence of the Migration Policy in Parallel Distributed GAs with Structured and Panmictic Populations** – E. Alba, J.M. Troya, *Applied Intelligence*, 12(3):163-181, 2000
 1. *Parallel genetic algorithms: Advances, computing trends, applications and perspectives*, Konfršt, Z., Proceedings - International Parallel and Distributed Processing Symposium, IPDPS 2004 (Abstracts and CD-ROM) 18, pp. 2303-2310, 2004
 2. *Parallel evolutionary algorithms: Advances*, Konfršt, Z., Soft Computing with Industrial Applications – Procs. of the Sixth Biannual World Automation Congress, pp. 429-434, 2004
 3. *Simulation optimization with multiple-demes genetic algorithms in master-slave parallel mode*, Xie, X., Zhang, W., Ruan, J., Yang, Z., *Chinese Journal of Electronics* 12 (2), pp. 254-258, 2003
 - **Cellular Evolutionary Algorithms: Evaluating the Influence of Ratio** – E. Alba, J.M. Troya. In Schoenauer M. et al. (eds.) *Proceedings of the Parallel Problem Solving from Nature VI*, Springer-Verlag, pp. 29-38, 2000
 1. *On the Utility of the Multimodal Problem Generator for Assessing the Performance of Evolutionary Algorithms*, F.G. lobo, C.F. Lima, In ACM Procs. of GECCO 06, Seattle USA, pp. 1233-1240, 2006
 2. *Analysis and Development of High Performance Genetic Algorithms for Single-objective Optimization*, S. Tiwari
 3. *A Preliminary Investigation of Anisotropic Selection in Cellular Genetic Algorithms*, D. Simoncini, S. Verel, P. Collard, and M. Clergue. In Procs. of Evolution Artificielle, 7th International Conference, Lille, France, 2005
 - **Advances in parallel heterogeneous genetic algorithms for continuous optimization** – E. Alba, F. Luna, and A. J. Nebro, *International Journal of Applied Mathematics and Computer Science*, 14(3), 2004
 1. A. Guillén. *Diseño de sistemas inteligentes en plataformas de cómputo paralela*. PhD thesis, Departamento de Arquitectura y Tecnología de Computadores, Universidad de Granada, 2007
 2. S. Rueda, P. Morillo, and J. M. Orduña. *A peer-to-peer platform for simulating distributed virtual environments*. In International Workshop on Peer-to-Peer Network Virtual Environments 2007 (P2P-NVE 2007), pages 1 – 8, 2007
 3. P. Pretki and A. Obuchowicz. *Directional distributions and their application to evolutionary algorithms*. In Artificial Intelligence and Soft Computing -ICAISC 2006, LNAI 4029, pages 440 – 449, 2006
 - **An Analysis of Synchronous and Asynchronous Parallel Distributed Genetic Algorithms with Structured and Panmictic Islands** – E. Alba, J.M. Troya, *IEEE Parallel and Distributed Processing*, J. Rolim et al. (eds.), Lecture Notes in Computer Science 1586, pp. 248-256. Springer-Verlag, 1999
 1. *The Influence of Migration Sizes and Intervals on Island Models*, Z. Skolicki and K. De Jong, ACM Press, en Procs. of GECCO'05, pp. 1295-1302, 2005
 2. *Techniques To Improve Exploration Efficiency Of Parallel Self Adaptive Genetic Algorithms By Dispensing Synchronization*, E. Takashima, Y. Murat, N. Shibata and M. Ito, Shiga University
 3. *Galapagos: a Distributed Parallel Evolutionary algorithm Development Platform*, Nicolas Jeremie

Kruchten, Thesis (<http://nicolas.kruchten.com/thesis.pdf>)

- **Diseño de Códigos Correctores de Errores con Algoritmos Genéticos** – E. Alba, J. F. Chicano, B. Dorronsoro, G. Luque, en *Actas del Tercer Congreso de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados* (MAEB 2004), pp. 51-58, Córdoba, España, 2004
 1. *Un Algoritmo Evolutivo Paralelo Adaptativo para el Problema del corte con Guillotina en 2D*, J.I. Peláez, D. La Red, A. Mesas, J.M. Doña, J. Veintimilla, en *Actas del Simposio en Investigación Operativa (SIO2004)*, Córdoba, Argentina, 2004
 2. *A Genetic Algorithm to Design Error Correcting Codes*, M.D.J. Simón, J.A.G. Pulido, M.A.V. Rodríguez, J.M.S. Pérez, J.M.G. Criado, in Proc. of the Mediterranean Electrotechnical Conference (MELECON 2006), artículo no. 1653221, pp. 807-810.
 3. *Resolución de Problemas Combinatorios con Aplicación Real en Sistemas Distribuidos*, G. Luque Polo, *Tesis Doctoral*, 2006.

- **Optimal broadcasting in metropolitan MANETs using multiobjective scatter search** – F. Luna, A. J. Nebro, B. Dorronsoro, E. Alba, P. Bouvry, and L. Hogie, en *Applications of Evolutionary Computing: EvoCOMNET 2006*, volume 3907 of Lecture Notes in Computer Science, pages 255 – 266, 2006
 1. C. A. Coello, G. B. Lamont, and D. A. Van Veldhuizen. *Evolutionary Algorithms for Solving Multi-Objective Problems*. Genetic and Evolutionary Computation Series. Springer, second edition, 2007
 2. O. González, C. León, G. Miranda, C. Rodríguez, and C. Segura. *A parallel skeleton for the strength pareto evolutionary algorithm 2*, In 15th EUROMICRO International Conference on Parallel, Dis-tributed and Network-Based Processing (PDP'07), pages 434 – 441. IEEE Press, 2007.
 3. R. Pérez-Pérez, C. Luque, A. Cervantes, and P. Isasi. *Multiobjective algorithms to optimize broadcasting parameters in mobile ad-hoc networks*. In 2007 IEEE Congress on Evolutionary Computation, pages 3142 – 3149, 2007.

- **Design issues in a multiobjective cellular genetic algorithm** – A. J. Nebro, J. J. Durillo, F. Luna, B. Dorronsoro, and E. Alba, en S. Obayashi, K. Deb, C. Poloni, T. Hiroyasu, and T. Murata, editors, *Evolutionary Multi-Criterion Optimization. 4th International Conference, EMO 2007*, volume 4403 of Lecture Notes in Computer Science, pages 126 – 140. Springer, 2007
 1. C. A. Coello, G. B. Lamont, and D. A. Van Veldhuizen. *Evolutionary Algorithms for Solving Multi-Objective Problems*. Genetic and Evolutionary Computation Series. Springer, second edition, 2007
 2. C. Grimme, J. Lepping, and A. Papaspyrou *Exploring the behavior of building blocks for multi-objective variation operator design using predator-prey dynamics*, Genetic and Evolutionary Computation Conference (GECCO 2007), pages 805 – 812, 2007

- **Modeling Selection Intensity for Toroidal Cellular Evolutionary Algorithms** – M. Giacobini, E. Alba. A. Tettamanzi, M Tomassini en Procs. of GECCO'04 pp.1138-1149, 2004
 1. *A Takeover Time Curves in Random and Small-World Structured Populations*, M. Giacobini, M. Tomassini, A. Tettamanzi, ACM Press, en Procs. of GECCO'05, pp. 1333-1340, 2005
 2. *A Preliminary Investigation of Anisotropic Selection in Cellular Genetic Algorithms*, D. Simoncini, S. Verel, P. Collard, and M. Clergue. In Procs. of Evolution Artificielle, 7th International Conference, Lille, France, 2005

- **A cellular multi-objective genetic algorithm for optimal broadcasting strat-egy in metropolitan MANETs** – E. Alba, B. Dorronsoro, F. Luna, A. J. Nebro, P. Bouvry, and L. Hogie. *Computer Communications*, 30(4):685 – 697, 2007

1. *A Takeover Time Curves in Random and Small-World Structured Populations*, M. Giacobini, M. Tomassini, A. Tettamanzi, ACM Press, en Procs. of GECCO'05, pp. 1333-1340, 2005
 2. *A Preliminary Investigation of Anisotropic Selection in Cellular Genetic Algorithms*, D. Simoncini, S. Verel, P. Collard, and M. Clergue. In Procs. of Evolution Artificielle, 7th International Conference, Lille, France, 2005
- **Decentralized Cellular Evolutionary Algorithms** - E. Alba, B. Dorronsoro, M. Giacobini, M. Tomassini, *Handbook of Bioinspired Algorithms and Applications*, S. Olariu, A. Y. Zomaya (eds.), Chapter 7, pp. 103-120, CRC Press, USA, 2006. ISBN 1-58488-475-4
 1. *Artificial Evolution on Network Structures*, M. Giacobini, *Tesis Doctoral*, 2005. 3-540-23092-0.
 2. *Adaptive Distributed Evolutionary Algorithms*, W. Wickramasinghe, Master thesis, University of Amsterdam
 - **Type-Constrained Genetic Programming for Rule-Base Definition in Fuzzy Logic Controllers** – E. Alba, C. Cotta, J.M. Troya, *Genetic Programming 1996: Proceedings of the First Annual Conference*, J.R. Koza, D.E Goldberg, D.E. Fogel, R.L. Riolo (eds.), Cambridge, MA: The MIT Press, pp. 255-260, 1996
 1. *Genetic Programming ~ An Introduction*, W. Banzhaf, P. Nordin, R.E. Keller, F.D. Francone. Morgan Kaufmann Publishers, Inc. San Francisco, CA, 1998
 2. *Genetic Programming for the Generation of Crisp and Fuzzy Rule Bases in Classification and Diagnosis of Medical Data*, G. Dounias, A. Tsakonas, J. Jantzen, H. Axer, B. Bjerregaard, D. Graf von Keyserlingk, 2002
 - **Utilising Dynastically Optimal Forma Recombination in Hybrid Genetic Algorithms** – C. Cotta, E. Alba, J.M. Troya, *Parallel Problem Solving from Nature V*, Bäck Th., Eiben A.E., Schoenauer M., Schwefel H.-P. (eds.), Lecture Notes in Computer Science 1498, pp. 305-314, Springer-Verlag, Berlin, 1998
 1. *A Parallel Memetic Algorithm for Solving Optimization Problems*, Digalakis J., Margaritis K., In *Proceedings of 4th Meta-heuristics International Conference*, July 16-20, Porto-Portugal, vol. I, pp. 121-125, 2001
 2. *Evolving Objects: a General Purpose Evolutionary Computation Library*, M. Keijzer, J. J. Merelo, G. Romero, and M. Schoenauer. In P. Collet et al. (ed.) *Proceedings of Evolution Articielle'01*, LNCS 2310, Springer Verlag, pp. 231-242, 2002
 - **Comparing Different Serial and Parallel Heuristics to Design Combinatorial Logic Circuits** – C. Coello, E. Alba, G. Luque, A. Hernández, *J. Lohn et al. (eds.)*, *Proceedings of the 2003 NASA/DoD Conference on Evolvable Hardware*, EH'03, Chicago, pp. 3-12, July 2003
 1. *Solving Even-Parity Problems using Traceless Genetic Programming*, M. Oltean, 2004
 2. *Evolving Digital Circuits Using Multiexpression Programming*, Oltean, M. Grosan, C., *Proceedings. 2004 NASA/DoD Conference on Evolvable Hardware*, pp. 87-94, 2004
 - **.NET as a Platform for Implementing Concurrent Objects** – A.J. Nebro, E. Alba, F. Luna, J.M. Troya. In *Monien B., Feldmann R. (eds.)*, *Proceedings of the Euro-Par*, Paderborn (GE), LNCS 2400, pp. 125-129, 2002
 1. *Demonstrating the Effectiveness of Exclusion Control for Components*, John Potter and Abdelsalam Shanneb and Eric Yu, in *IEEE Proceedings of the Australian Software Engineering Conference (ASWEC'05)*, pp. 344-353, 2005
 2. *Exclusion Control for Java and C#: Experimenting with Granularity of Locks*, John Potter, Abdelsalam Shanneb, Eric Yu, *Workshop on Concurrency and Synchronization in Java Programs*, pp. 10-17, 2004
1. **Computing Nine New Best-So-Far Solutions for Capacitated VRP with a Cellular Genetic Algorithm** - E. Alba, B. Dorronsoro, *Information Processing Letters*, 98(6), pp 225-230. Junio de 2006. ISSN 0020-0190

1. *A SAND Approach Based on Cellular Computation Models for Analysis and Optimization*, O.E. Canyurt, P. Hajela, *Engineering optimization* 39(4):381-396, Junio de 2007. ISSN 0305-215X.
 2. *Physical Distribution Activities and Vehicle Routing Problems in Logistics Management: a Case Study*, A.F. Güneri, in Proc. Of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture 221(1):123-133, Professional Engineering Publishing, 2007. ISSN 0954-4054.
2. **Advanced Models of Cellular Genetic Algorithms Evaluated on SAT-** E. Alba, B. Dorronsoro, H. Alfonso, in Genetic and Evolutionary Computation Conference (GECCO) 2005, Junio de 2005, Washington, D.C. USA, pp. 1123-1130. ISBN 1-59593-010-8.
 1. *Object and pose recognition with cellular genetic algorithms*. T. Mantere, in David P. Casasent, Ernest L. Hall, Juha Röning (eds.), *Intelligent Robots and Computer Vision XXV: Algorithms, Techniques, and Active Vision*, Optics East 2007 (OE07), Boston (Massachusetts, USA), 9–12 Sept. 2007. Proceedings of SPIE, Vol. 6764, pages 67640N-1–10.
 2. *Diseño de Algoritmos Combinatorios para #SAT y su Aplicación al Razonamiento Proposicional*, C. Guillén, A. López, y G. De Ita, Informe técnico No. CCC-05-005, Coordinación de Ciencias Computacionales INAOE, México, 2005.
- **A Genetic Algorithm for Load Balancing in Parallel Query Evaluation for Deductive Relational Databases** – E. Alba, J.F. Aldana, J.M. Troya, *Artificial Neural Nets and Genetic Algorithms 2*, D.W. Pearson, N.C. Steele, R.F. Albrecht (eds.), Springer-Verlag, Wien New York, pp. 479-482, 1995
 1. *An Indexed Bibliography of Genetic Algorithms in the Latin America, Portugal and Spain*, J.T. Alander, 1999
 - **A Globus-Based Distributed Enumerative Search Algorithm for Multi-Objective Optimization** – F. Luna, A. Nebro, E. Alba, *Technical Report LCC 2004/02*, University of Málaga, 2004
 1. *A Service Oriented Architecture for Decision Making in Engineering Design*, *Advances in Grid Computing*, A. Shenfield and P.J. Fleming, EGC 2005, *European Grid Conference*, LNCS 3470, pp. 334-343, 2005
 - **Parallel LAN/WAN Heuristics for Optimization** – E. Alba, G. Luque, J.M Troya,, *Parallel Computing*, 30(5-6):611-628, 2004
 1. *Algoritmos Genéticos Paralelos y su Aplicación al Diseño de Redes de Comunicaciones Confiables*, S. Nasmachnow, Master Thesis, ULR Uruguay, 2004
 - **Genetic Algorithms** – E. Alba and F.Chicano, in *Metaheuristic Procedures for Training Neural Networks*, chapter 6, pp. 109-137, Springer-Verlag, 2006
 1. *Estimation of Distribution Algorithms*, J. Madera, B. Dorronsoro, in *Metaheuristic Procedures for Training Neural Networks*, chapter 5, pp. 87-108, Springer-Verlag, 2006
 - **On the Behavior of Parallel Genetic Algorithms for Optimal Placement of Antennae in Telecommunications** – E. Alba, F. Chicano, *International Journal of Foundations of Computer Science*, 16(2), pp. 343-359, World Scientific, 2005
 1. *Evolutionary Computing in Telecommunications*, P. Kampstra, Technical Report, Faculty of Sciences, Vrije Universiteit, Amsterdam, 2005, <http://www.few.vu.nl/onderwijs/stage/werkstuk/werkstukken/index.php>
 - **Assembling DNA Fragments with Parallel Algorithms** – E. Alba, G. Luque and S. Khuri, *IEEE Congress on Evolutionary Computation* 2005 vol.1, pp.57-64, 2005
 1. *Heuristically Tuned GA to Solve Genome Fragment Assembly Problem*, S. Kikuchi, G. Chakraborty, In G. Yen (ed.) *IEEE Procs. of CEC'06*, IEEE Press, pp. 5640-5647, 2006
 - **A Parallel Island Model for Estimation of Distribution Algorithms** – J. Madera, E. Alba, A. Ochoa, chapter 7 in J.A. Lozano, P. Larrañaga, I. Inza, E. Bengoetxea (eds.), *Towards a New Evolutionary Computation. Advances in the Estimation of Distribution Algorithms*, Springer-Verlag, pp. 159-186,

2006

1. *Initial approaches to the application of islands-based parallel EDAs in continuous domains.* delaOssa, L., Gámez, J. A., and Puerta, J. M., *Journal of Parallel and Distributed Computing* 66(8):991-1001, Aug. 2006