# Bibliography in BibTeX format

## Computer Architecture and Languages Laboratory

### October 24, 2008

**Abstract**

This is the bibliography of Computer Architecture and Languages Laboratory, from 2005 until the date of this publication, listing following papers: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44].

# References

[1] J. Brest and M. S. Maučec, "Population Size Reduction for the Differential Evolution Algorithm," *Applied Intelligence*, vol. 29, no. 3, pp. 228–247, 2008. DOI: 10.1007/s10489-007-0091-x.

[2] S. Greiner, J. Brest, and V. Žumer, "Zero – A blend of static typing and dynamic metaprogramming," *Computer Languages, Systems & Structures*, pp. –, Available online: 12 April 2008. DOI: 10.1016/j.cl.2008.04.001.

[3] J. Brest, A. Zamuda, B. Bošković, and V. Žumer, "An Analysis of the Control Parameters Adaptation in DE," in *Advances in Differential Evolution, Studies in Computational Intelligence* (U. K. Chakraborty, ed.), vol. 143, pp. 89–110, Springer, 2008.

[4] B. Bošković, S. Greiner, J. Brest, A. Zamuda, and V. Žumer, "An Adaptive Differential Evolution Algorithm with Opposition-Based Mechanisms, Applied to the Tuning of a Chess Program," in *Advances in Differential Evolution, Studies in Computational Intelligence* (U. K. Chakraborty, ed.), vol. 143, pp. 287–298, Springer, 2008.

[5] J. Brest, "Differential Evolution with Self-Adaptation," *Encyclopedia of Artificial Intelligence*, pp. 488–493, 2009.

[6] J. Brest, A. Zamuda, B. Bošković, M. S. Mauec, and V. Žumer, "High-dimensional Real-parameter Optimization Using Self-adaptive Differential Evolution Algorithm with Population Size Reduction," in *2008 IEEE World Congress on Computational Intelligence*, IEEE Press, 2008. Accepted.

[7] A. Zamuda, J. Brest, B. Bošković, and V. Žumer, "Large Scale Global Optimization Using Differential Evolution with Self-adaptation and Cooperative Co-evolution," in *2008 IEEE World Congress on Computational Intelligence*, IEEE Press, 2008. Accepted.

[8] J. Brest, A. Zamuda, B. Bošković, S. Greiner, M. S. Maučec, and V. Žumer, "Self-Adaptive Differential Evolution with SQP Local Search," in *The 3rd International Conference on Bioinspired Optimization Methods and their Applications* (B. Filipič and J. Šilc, eds.), (Ljubljana, Slovenia), pp. 59–69, Jožef Stefan Institute, 2008.

[9] J. Brest, A. Zamuda, B. Bošković, S. Greiner, and V. Žumer, "An Analysis of the Control Parameters Adaptation in the Differential Evolution Algorithm," *Journal of Computational Intelligence*, vol. 1, no. 1, pp. 7–22, 2008.

[10] B. Bošković, A. Zamuda, J. Brest, S. Greiner, and V. Žumer, "An Opposition-Based Differential Evolution Algorithm with Adaptive Mechanism, Applied to the Tuning of a Chess Evaluation Function," *Journal of Computational Intelligence*, vol. 1, no. 1, pp. 1–6, 2008.

[11] B. Bošković, J. Brest, A. Zamuda, and V. Žumer, "Ratingiranje pri uglaševanju šahovskega programa z algoritmom diferencialne evolucije," in *Zbornik sedemnajste mednarodne Elektrotehniške in računalniške konference ERK 2008, volume B*, pp. 123–126, 2008.

[12] A. Zamuda, J. Brest, B. Bošković, and V. Žumer, "Diferencialna evolucija za večkriterijsko optimizacijo s samoprilagajanjem in z lokalnim preiskovanjem SQP," in *Zbornik sedemnajste mednarodne Elektrotehniške in računalniške konference ERK 2008, volume B*, pp. 103–106, 2008.

[13] J. Brest, B. Bošković, S. Greiner, V. Žumer, and M. S. Maučec, "Performance comparison of self-adaptive and adaptive differential evolution algorithms," *Soft Computing - A Fusion of Foundations, Methodologies and Applications*, vol. 11, no. 7, pp. 617–629, 2007. DOI: 10.1007/s00500-006-0124-0.

[14] A. Zamuda, J. Brest, B. Bošković, and V. Žumer, "Differential Evolution for Multiobjective Optimization with Self Adaptation," in *The 2007 IEEE Congress on Evolutionary Computation CEC 2007*, pp. 3617–3624, IEEE Press, 2007. DOI: 10.1109/CEC.2007.4424941.

[15] A. Zamuda, J. Brest, N. Guid, and V. Žumer, "Modelling, Simulation, and Visualization of Forest Ecosystems," in *The IEEE Region 8 EUROCON 2007: International conference on "Computer as a tool", September 9-12, 2007, Warsaw, Poland*, pp. 2600–2606, IEEE Press, 2007. DOI: 10.1109/EURCON.2007.4400683.

[16] M. S. Maučec and J. Brest, "Data Sparsity Reduction in Statistical Machine Translation From Highly Inflected Language to English," in *3rd Language & Technology Conference: Human Language Technologies as a Challenge for Computer Science and Linguistics*, (October 5-7, 2007, Poznań, Poland), pp. 448–452, 2007.

[17] J. Brest, V. Žumer, and M. S. Maučec, "Population size in differential evolution algorithm," *Elektrotehniški vestnik*, vol. 74, no. 1-2, pp. 55–60, 2007.

[18] J. Brest, A. Zamuda, B. Bošković, and V. Žumer, "Večkriterijska optimizacija: primerjava algoritmov *MOjDE* in *DEMO*," in *Zbornik šestnajste mednarodne Elektrotehniške in računalniške konference ERK 2007, volume B*, pp. 85–88, 2007.

[19] B. Bošković, J. Brest, A. Zamuda, and V. Žumer, "Uglaševanje šahovskega programa BBChess z uporabo algoritma diferencialne evolucije," in *Zbornik šestnajste mednarodne Elektrotehniške in računalniške konference ERK 2007, volume B*, pp. 73–76, 2007.

[20] A. Zamuda, J. Brest, B. Bošković, and V. Žumer, "Večkriterijska optimizacija: eksperimentalni rezultati algoritmov *MOjDE* in *DEMO*," in *Zbornik šestnajste mednarodne Elektrotehniške in računalniške konference ERK 2007, volume B*, pp. 89–92, 2007.

[21] A. Zamuda, "Modeliranje, simulacija in upodabljanje gozdov," *Abakus*, vol. 1, pp. 22–23, 2007.

[22] S. Tutek, "Svoboda! Ali vas zanima prosta kola, prosto pivo ali prosta programska oprema?," *Abakus*, vol. 7, no. 1, October, pp. 22–24, 2007.

[23] J. Brest, S. Greiner, B. Bošković, M. Mernik, and V. Žumer, "Self-Adapting Control Parameters in Differential Evolution: A Comparative Study on Numerical Benchmark Problems," *IEEE Transactions on Evolutionary Computation*, vol. 10, no. 6, pp. 646–657, 2006. DOI: 10.1109/TEVC.2006.872133.

[24] M. S. Maučec, J. Brest, and V. Žumer, "Statistical Alignment Models in Machine Translation from Slovenian to English," *Electrotechnical Review*, vol. 73, no. 5, pp. 273–278, 2006.

[25] B. Bošković, J. Brest, and V. Žumer, "Objektno orientirano načrtovanje in implementacija računalniškega šaha," *Elektrotehniški vestnik*, vol. 73, no. 1, pp. 31–37, 2006.

[26] I. Pešl, V. Žumer, and J. Brest, "Optimizacija s pomočjo kolonije mravelj = ACO – Ant Colony Optimization," *Electrotechnical Review*, vol. 73, no. 2-3, pp. 93–98, 2006.

[27] J. Brest, V. Žumer, and M. S. Maučec, "Self-adaptive Differential Evolution Algorithm in Constrained Real-Parameter Optimization," in *The 2006 IEEE Congress on Evolutionary Computation CEC 2006*, pp. 919–926, IEEE Press, 2006. DOI: 10.1109/CEC.2006.1688311.

[28] B. Bošković, S. Greiner, J. Brest, and V. Žumer, "A Differential Evolution for the Tuning of a Chess Evaluation Function," in *The 2006 IEEE Congress on Evolutionary Computation CEC 2006*, pp. 6742–6747, IEEE Press, 2006. DOI: 10.1109/CEC.2006.1688532.

[29] J. Brest, V. Žumer, and M. S. Maučec, "Control Parameters in Self-Adaptive Differential Evolution," in *Bioinspired Optimization Methods and Their Applications* (B. Filipič and J. Šilc, eds.), (Ljubljana, Slovenia), pp. 35–44, Jožef Stefan Institute, October 2006.

[30] S. Greiner, J. Brest, and V. Žumer, "Advantages of dynamic method-oriented mechanism in a statically typed object-oriented programming language $Z_0$," in *Proceedings of the 28th International Conference on Information Technology Interfaces*, pp. 433–438, 2006. DOI: 10.1109/ITI.2006.1708520.

[31] A. Zamuda, J. Brest, N. Guid, and V. Žumer, "Construction of Virtual Trees within Ecosystems with EcoMod Tool," in *Book of Abstracts for IPSI-2006 Slovenia, International Conference on Advances in the Internet, Processing, Systems, and Interdisciplinary Research*, p. 15, 2006.

[32] M. S. Maučec, J. Brest, and Z. Kačič, "Slovenian to English Machine Translation using Corpora of Different Sizes and Morpho-syntactic Information," in *Language Technologies Conference: proceedings of the 9th International Multiconference Information Society IS 2006*, pp. 222–225, 2005.

[33] J. Brest, M. S. Maučec, B. Bošković, S. Greiner, and V. Žumer, "Optimizacija z omejitvami: eksperimentalni rezultati s samo-prilagodljivim algoritmom diferencialne evolucije," in *Zbornik petnajste mednarodne Elektrotehniške in računalniške konference ERK 2006*, pp. 91–94, 2006.

[34] B. Bošković, S. Greiner, J. Brest, and V. Žumer, "Adaptivni algoritem diferencialne evolucije za uglaševanje parametrov ocenitve funkcije računalniškega šaha," in *Zbornik petnajste mednarodne Elektrotehniške in računalniške konference ERK 2006*, pp. 83–86, 2006.

[35] A. Zamuda and N. Guid, "Modeliranje, simulacija in upodabljanje gozdov," in *Zbornik petnajste mednarodne Elektrotehniške in računalniške konference ERK 2006*, pp. 391–392, 2006.

[36] B. Bošković and J. Brest, "Računalniški šah," *Abakus*, vol. 5, pp. 41–44, 2006.

[37] S. Greiner, D. Rebernak, J. Brest, and V. Žumer, "$Z_0$ - A Tiny Experimental Language," *SIGPLAN Notices*, vol. 40, no. 8, pp. 19–28, 2005.

[38] J. Brest and J. Žerovnik, "A Heuristic for the Asymmetric Traveling Salesman Problem," in *The 6th Metaheuristics International Conference*, pp. 145–150, 2005.

[39] J. Brest, S. Greiner, B. Bošković, and V. Žumer, "A Heuristic Algorithm for Function Optimization," in *Proceedings MIPRO*, pp. 91–94, 2005.

[40] B. Bošković, S. Greiner, J. Brest, and V. Žumer, "The Representation of Chess Game," in *Proceedings of the 27th International Conference on Information Technology Interfaces*, pp. 381–386, 2005. DOI: 10.1109/ITI.2005.1491153.

[41] S. Greiner, J. Brest, and V. Žumer, "Načrtovanje porazdeljene arhitekture za simultano izvajanje programskih bremen," *Elektrotehniški vestnik*, vol. 72, no. 2-3, pp. 91–96, 2005.

[42] J. Brest, B. Bošković, S. Greiner, and V. Žumer, "Nastavitev parametrov pri algoritmu diferencialne evolucije," in *Zbornik štirinajste mednarodne Elektrotehniške in računalniške konference ERK 2005*, pp. 79–82, 2005.

[43] B. Bošković, S. Greiner, J. Brest, and V. Žumer, "Učenje računalniškega šaha z uporabo diferencialne evolucije," in *Zbornik štirinajste mednarodne Elektrotehniške in računalniške konference ERK 2005*, pp. 71–74, 2005.

[44] J. Brest, Š. Brest, and J. Žerovnik, "Primerjava hevrističnih algoritmov za trgovskega pot-nika," in *Zbornik štirinajste mednarodne Elektrotehniške in računalniške konference ERK 2005*, pp. 41–44, 2005.