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Computer Architecture and Languages Laboratory

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## Abstract

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## References

- [1] B. Bošković, J. Brest, A. Zamuda, S. Greiner, and V. Žumer, “History Mechanism Supported Differential Evolution for Chess Evaluation Function Tuning,” *Soft Computing - A Fusion of Foundations, Methodologies and Applications*. DOI: 10.1007/s00500-010-0593-z.
- [2] J. Brest, B. Bošković, and V. Žumer, “An Improved Self-adaptive Differential Evolution Algorithm in Single Objective Constrained Real-Parameter Optimization,” in *IEEE Congress on Evolutionary Computation (CEC) 2010*, IEEE Press, 2010.
- [3] J. Brest, A. Zamuda, I. Fister, and M. S. Maučec, “Large Scale Global Optimization using Self-adaptive Differential Evolution Algorithm,” in *IEEE World Congress on Computational Intelligence 2010, July 18 - 23, Barcelona, Spain*, p. Accepted, 2010.
- [4] J. Brest, B. Bošković, and V. Žumer, “An Improved Self-adaptive Differential Evolution Algorithm in Single Objective Constrained Real-Parameter Optimization,” in *IEEE World Congress on Computational Intelligence 2010, July 18 - 23, Barcelona, Spain*, p. Accepted, 2010.
- [5] A. Zamuda, J. Brest, B. Bošković, and V. Žumer, “Woody Plants Model Recognition by Differential Evolution,” in *The Fourth International Conference on Bioinspired Optimization Methods and their Applications, May 20 - 21 2010, Ljubljana, Slovenia*, p. Accepted, 2010.
- [6] S. Greiner, J. Brest, and V. Žumer, “Zero – A blend of static typing and dynamic metaprogramming,” *Computer Languages, Systems & Structures*, vol. 35, no. 3, pp. 241–251, 2009. DOI: 10.1016/j.cl.2008.04.001.
- [7] M. S. Maučec, T. Rotovnik, Z. Kačič, and J. Brest, “USING DATA-DRIVEN SUB-WORD UNITS IN LANGUAGE MODEL OF HIGHLY INFLECTIVE SLOVENIAN LANGUAGE,” *International Journal of Pattern Recognition and Artificial Intelligence*, vol. 23, no. 2, pp. 287–312, 2009.
- [8] S. Greiner, “Run-time Manipulation of Programs in a Statically-Typed Language,” *INFORMATICA*, vol. 33, pp. 397–398, 2009.
- [9] J. Brest, “Constrained Real-Parameter Optimization with  $\epsilon$ -Self-Adaptive Differential Evolution,” *Studies in Computational Intelligence, ISBN: 978-3-642-00618-0*, vol. 198, pp. 73–93, 2009.
- [10] J. Brest, “Differential Evolution with Self-Adaptation,” *Encyclopedia of Artificial Intelligence*, pp. 488–493, 2009.

- [11] M. S. Maučec and J. Brest, "Reduction of Morpho-syntactic Features in Statistical Machine Translation of Highly Inflective Language," *INFORMATICA*, vol. 21, no. 1, pp. 95–116, 2010.
- [12] J. Brest, A. Zamuda, B. Bošković, M. S. Maučec, and V. Žumer, "Dynamic Optimization using Self-Adaptive Differential Evolution," in *IEEE Congress on Evolutionary Computation (CEC) 2009*, pp. 415–422, IEEE Press, 2009.
- [13] A. Zamuda, J. Brest, B. Bošković, and V. Žumer, "Differential Evolution with Self-adaptation and Local Search for Constrained Multiobjective Optimization," in *IEEE Congress on Evolutionary Computation (CEC) 2009*, pp. 195–202, IEEE Press, 2009.
- [14] A. Zamuda, J. Brest, and V. Žumer, "Razpoznavna numerično kodiranih proceduralnih modelov iz slik naravnih dreves z uporabo diferencialne evolucije," in *Zbornik osemnajste mednarodne Elektrotehniške in računalniške konference ERK 2009, volume B*, p. Sprejeto, 2009.
- [15] M. Pulko, B. Bošković, and J. Brest, "Programiranje grafičnih vmesnikov s knjižnico QT," in *Zbornik osemnajste mednarodne Elektrotehniške in računalniške konference ERK 2009, volume B*, p. Sprejeto, 2009.
- [16] 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.
- [17] 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.
- [18] 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.
- [19] J. Brest, A. Zamuda, B. Bošković, and V. Žumer, "Globalna optimizacija problemov z velikim številom dimenzij," *Elektrotehniški vestnik*, vol. 75, no. 5, pp. 299–304, 2008.
- [20] A. Zamuda, J. Brest, B. Bošković, and V. Žumer, "Študija samoprilagajanja krmilnih parametrov pri algoritmu DEMOWSA," *Elektrotehniški vestnik*, vol. 75, no. 4, pp. 223–228, 2008.
- [21] J. Brest, A. Zamuda, B. Bošković, M. S. Maučec, 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*, pp. 2032–2039, IEEE Press, 2008.
- [22] 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*, pp. 3719–3726, IEEE Press, 2008.
- [23] 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.
- [24] 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.
- [25] 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.

- [26] 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.
- [27] 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.
- [28] 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.
- [29] 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.
- [30] 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.
- [31] 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.
- [32] 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.
- [33] 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.
- [34] A. Zamuda, "Modeliranje, simulacija in upodabljanje gozdov," *Abakus*, vol. 1, pp. 22–23, 2007.
- [35] S. Tutek, "Svoboda! Ali vas zanima prosta kola, prosto pivo ali prosta programska oprema?," *Abakus*, vol. 7, no. 1, October, pp. 22–24, 2007.
- [36] 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.
- [37] 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.
- [38] B. Bošković, J. Brest, and V. Žumer, "Objektno orientirano načrtovanje in implementacija računalniškega šaha," *Elektrotehniški vestnik*, vol. 73, no. 1, pp. 31–37, 2006.
- [39] 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.
- [40] 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.
- [41] 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.

- [42] 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.
- [43] 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.
- [44] 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.
- [45] 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.
- [46] 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.
- [47] 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.
- [48] A. Zamuda and N. Guid, “Modeliranje, simulacija in upodabljanje gozdov,” in *Zbornik petnajste mednarodne Elektrotehniške in računalniške konference ERK 2006*, pp. 391–392, 2006.
- [49] B. Bošković and J. Brest, “Računalniški šah,” *Abakus*, vol. 5, pp. 41–44, 2006.
- [50] 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.
- [51] J. Brest and J. Žerovnik, “A Heuristic for the Asymmetric Traveling Salesman Problem,” in *The 6th Metaheuristics International Conference*, pp. 145–150, 2005.
- [52] J. Brest, S. Greiner, B. Bošković, and V. Žumer, “A Heuristic Algorithm for Function Optimization,” in *Proceedings MIPRO*, pp. 91–94, 2005.
- [53] 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.
- [54] 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.
- [55] 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.
- [56] 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.
- [57] J. Brest, Š. Brest, and J. Žerovnik, “Primerjava hevrističnih algoritmov za trgovskega potnika,” in *Zbornik štirinajste mednarodne Elektrotehniške in računalniške konference ERK 2005*, pp. 41–44, 2005.