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# **Efficiency of Meta Heuristic Optimization Algorithms**

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**Abstract:** A meta-heuristic is a lot of algorithmic ideas that can be utilized to characterize heuristic strategies material to a wide arrangement of various issues. -A Meta heuristic can be viewed as a general broadly useful heuristic technique toward promising locales of the search space containing top notch arrangements. -A meta heuristic is a general algorithmic system which can be connected to various advancement issues with moderately couple of changes to make them adjusted to a particular issue.

Keywords: Meta-heuristics, cuckoo, harmony, bee optimization, fire-fly etc.

#### REFERENCES

- [1]. http://webpages.iust.ac.ir/yaghini/Courses/AOR\_872/What%20is%20a%20Metaheuristic.pdf
- [2]. Essentials of Metaheuristics A Set of Undergraduate Lecture Notes by Sean Luke Department of Computer Science
- [3]. George Mason University Second Edition Online Version 2.2 October, 2015.
- [4]. Comparison of meta-heuristic algorithms for Solving machining optimization problems DDDC 519.863; 621.7.01 Miloš Madić, Danijel Marković, Miroslav Radovanović University of Niš, Faculty of Mechanical Engineering, Serbia.
- [5]. http://www.scholarpedia.org/article/Metaheuristic\_Optimization#Metaheuristics.
- [6]. Heuristic algorithms for Solving machining optimization problems □□□UDC 519.863; 621.7.01 Miloš Madić, Danijel Marković, Miroslav RadovanovićUniversity of Niš, Faculty of Mechanical Engineering, Serbia.
- [7]. http://www.scholarpedia.org/article/Metaheuristic\_Optimization#Other\_Metaheuristic\_Algorithms.
- [8]. J. B. Odili and M. N. M. Kahar, "Numerical Function Optimization Solutions Using the African Buffalo Optimization Algorithm (ABO)," British Journal of Mathematics & Computer Science, vol. 10, pp. 1-12, 2015.
- [9]. J. B. M. N. M. Odili, Kahar, "African Buffalo Optimization," International Journal of Software Engineering & Computer Systems vol. 2, pp. 28-50, 2016.
- [10]. L. Angquist, A. Antonopoulos, D. Siemaszko, K. Ilves, M. Vasiladiotis, and H.-P. Nee, "Open-loop control of modular multilevel converters using estimation of stored energy," IEEE transactions on industry applications, vol. 47, pp. 2516-2524, 2011.
- [11]. K. A. Dowsland and J. M. Thompson, "Simulated annealing," in Handbook of Natural Computing, ed: Springer, 2012, pp. 1623-1655.
- [12]. J. B. Odili, "Application of Ant Colony Optimization to Solving the Traveling Salesman's Problem," Science Journal of Electrical & Electronic Engineering, vol. 2013, 2013.
- [13]. B. Xu, C. Zhao, E. Hu, and B. Hu, "Job scheduling algorithm based on Berger model in cloud environment," Advances in Engineering Software, vol. 42, pp. 419-425, 2011.
- [14]. V. K. Bhatt and D. S. Bhongade, "Design Of PID Controller In Automatic Voltage Regulator (AVR) System Using PSO Technique," International Journal of Engineering Research and Applications (IJERA), vol. 3, pp. 1480-1485, 2013. 13
- [15]. Y.-J. Liu, S.-C. Tong, D. Wang, T.-S. Li, and C. P. Chen, "Adaptive neural output feedback controller design with reduced-order observer for a class of uncertain nonlinear SISO systems," IEEE Transactions on Neural Networks, vol. 22, pp. 1328-1334, 2011.
- [16]. J. B. O. a. M. N. M. Kahar, "African Buffalo Optimization," International Journal of Software Engineering & Computer Systems, vol. 2, pp. 28-50, 2016.

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- [17]. African Buffalo Optimization Algorithm for Tuning Parameters of a PID Controller in Automatic Voltage Regulators Julius Beneoluchi Odili Mohd Nizam Mohmad Kahar A. Noraziah FSKKP odili\_julest@yahoo.com Faculty of Computer Systems and Software Engineering mnizam@ump.edu.my IBM Centre of Excellence noraziah@ump.edu.my Universiti Malaysia Pahang Kuantan 26300, Malaysia. DOI 10.5013/IJSSST.a.17.33.45.
- [18]. Metaheuristics From design to implementationEl-ghazali talbiUniversity of lille cnrs inria.
- [19]. Nature Inspired meta heuristic algorithms Second Edition Xin-She Yang University of Cambridge United Kingdom.
- [20]. J. B. Odili and M. N. M. Kahar, "Solving the Traveling Salesman's Problem using the African Buffalo Optimization."