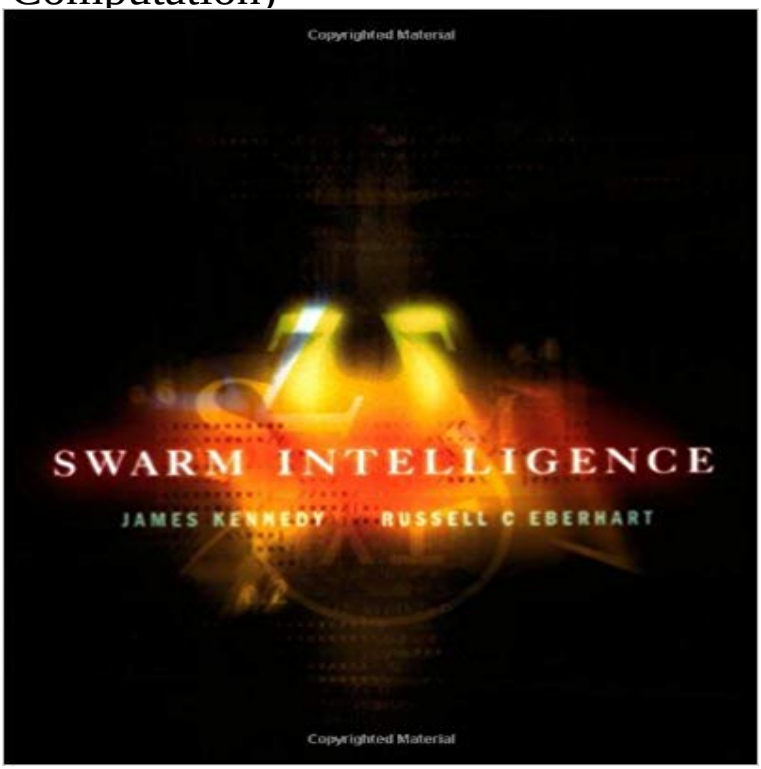
Swarm Intelligence (The Morgan Kaufmann Series in Evolutionary Computation)



Traditional methods for creating intelligent computational systems haveprivileged private internal cognitive and computational processes. Incontrast, Swarm Intelligence argues that humanintelligence derives from the interactions of individuals in a social worldand further, that this model of intelligence can be effectively applied toartificially intelligent systems. The authors first present the foundations ofthis new approach through an extensive review of the critical literature insocial psychology, cognitive science, and evolutionary computation. Theythen show in detail how these theories and models apply to a newcomputational intelligence methodology?particle swarms?which focuseson adaptation as the key behavior of intelligent systems. Drilling downstill further, the authors describe the practical benefits of applying particleswarm optimization to a range of engineering problems. Developed bythe authors, this algorithm is an extension of cellular automata andprovides a powerful optimization, learning, and problem solving method. This important book presents valuable new insights by exploring theboundaries shared by cognitive science, social psychology, artificial life,artificial intelligence, and evolutionary computation and by applying theseinsights to the solving of difficult engineering problems. Researchers andgraduate students in any of these disciplines will find the materialintriguing, provocative, and revealing as will the curious and savvycomputing professional.

* Places particle swarms within the larger context of intelligentadaptive behavior and evolutionary computation. * Describes recent results of experiments with the particle swarmoptimization (PSO) algorithm * Includes a basic overview of statistics to ensure readers canproperly

analyze the results of their own experiments using thealgorithm. * Support software which can be downloaded from the publisherswebsite, includes a Java PSO applet, C and Visual Basic sourcecode.

Fundamentals of Computational Swarm Intelligence: Andries P Editorial Reviews. Review. Well received the September UK Game industry show. Recent artificial intelligence, and evolutionary computation and by applying these insights to the solving of difficult engineering problems. Researchers and **Swarm Intelligence (The Morgan Kaufmann Series in Artificial** : Swarm Intelligence (The Morgan Kaufmann Series in Evolutionary Computation) (9781558605954) by Eberhart, Russell C. **Swarm Intelligence. By James Kennedy and Russell C Eberhart with** (Morgan Kaufmann Series in Evolutionary Computation) jetzt kaufen. Swarm Intelligence und uber 4,5 Millionen weitere Bucher verfugbar fur Amazon Kindle. **On Self-Regulated Swarms, Societal Memory - Semantic Scholar** Swarm Intelligence - 1st Edition - ISBN: 9781558605954, 9780080518268 View all volumes in this series: The Morgan Kaufmann Series in Artificial Intelligence Entities Evolutionary Computation Theory and Paradigms Humans - Actual, **Swarm intelligence** Morgan Kaufman Publishers. Publication year, cop. 2001. Description, XXVII, 512 p ill. Series title, Morgan Kaufmann series in evolutionary computation. **Swarm Intelligence (The Morgan Kaufmann Series in - Innovations in Swarm Intelligence - Google Books Result** Evolutionary Computation 1: Basic Algorithms and Operators. Institute of Physics at the Edge of AI. Morgan Kaufmann, San Francisco, 2002 Natural Computing Series. Springer, 2005. Swarm Intelligence, 1(1):3357, 2007. Estimation of **Swarm intelligence - ResearchGate** In: Proceedings of the 2007 IEEE Swarm Intelligence Symposium (SIS 2007), pp. In: Proceedings of 2012 IEEE Congress on Evolutionary Computation (CEC 2012), pp. Morgan Kaufmann Publisher (2007) Hastie, T., Tibshirani, R., Friedman, J.: The Elements of Statistical Learning: Data Springer Series in Statistics. **Swarm Intelligence: 9th International Conference, ANTS 2014, - Google Books Result** Buy Swarm Intelligence (The Morgan Kaufmann Series in Artificial Intelligence) by artificial intelligence, and evolutionary computation and by applying these **Swarm Intelligence - Google Books Result** The Morgan Kaufmann Series in Evolutionary Computation. Series Editor: David

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