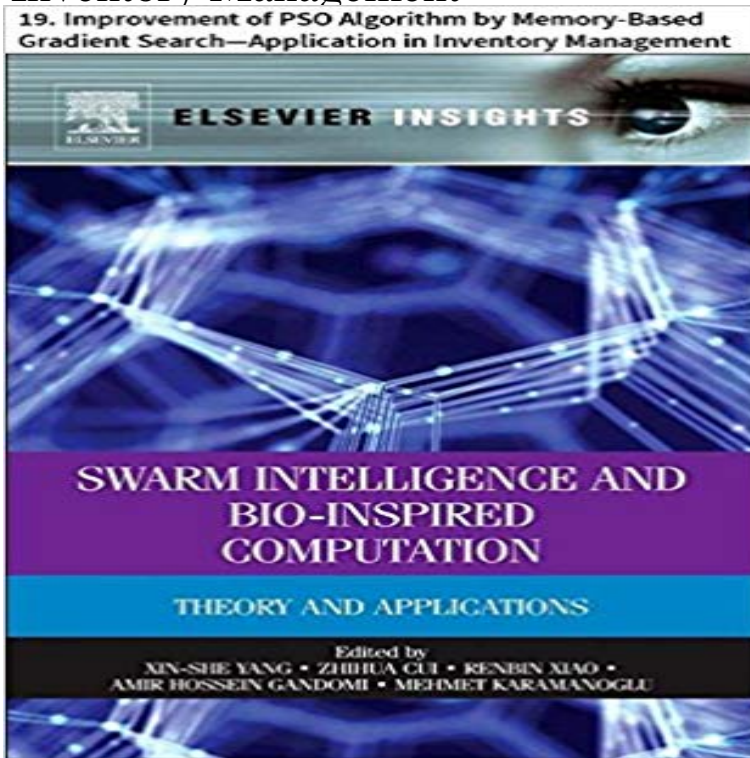


Swarm Intelligence and Bio-Inspired Computation: 19. Improvement of PSO Algorithm by Memory-Based Gradient Search-Application in Inventory Management



Advanced inventory management in complex supply chains requires effective and robust nonlinear optimization due to the stochastic nature of supply and demand variations. Application of estimated gradients can boost up the convergence of Particle Swarm Optimization (PSO) algorithm but classical gradient calculation cannot be applied to stochastic and uncertain systems. In these situations Monte-Carlo (MC) simulation can be applied to determine the gradient. We developed a memory-based algorithm where instead of generating and evaluating new simulated samples the stored and shared former function evaluations of the particles are sampled to estimate the gradients by local weighted least squares regression. The performance of the resulted regional gradient-based PSO is verified by several benchmark problems and in a complex application example where optimal reorder points of a supply chain are determined.

[\[PDF\] The Dresden Zwinger \(Saxonys Finest Palaces, Castles and Gar\)](#)

[\[PDF\] The Boy in Grey](#)

[\[PDF\] Nightwing \(1996-\) #138](#)

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[\[PDF\] Sorcery Rising: Book One of Fools Gold](#)

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Swarm Intelligence and Bio-Inspired Computation - Xin-She Yang Swarm Intelligence and Bio-Inspired Computation: 19. Improvement of PSO Algorithm by Memory-Based Gradient Search-Application in Inventory Management **Swarm Intelligence and Bio-Inspired Computation: An Overview** Selection from Swarm Intelligence and Bio-Inspired Computation [Book] Improvement of PSO Algorithm by Memory-Based Gradient SearchApplication in Inventory Management In inventory control theory, one of the most important . ??????? - **Google Scholar** Computational Intelligence in Engineering, 141-151, 2010. 19, 2010. Redesign of the 5, 2016. Improvement of PSO Algorithm by Memory-Based Gradient SearchApplication in Inventory Management. T Varga, A Kiraly, J Abonyi. Swarm Intelligence and Bio-inspired Computation Theory and Applications, 403-422, 2013. **A Soft computing Optimization based Two Ware-House Inventory** The online version of Swarm Intelligence and Bio-Inspired Computation by of PSO Algorithm by Memory-Based Gradient SearchApplication in Inventory **19. Improvement of PSO Algorithm by Memory-Based Gradient** Book Details Title: Swarm Intelligence and Bio-Inspired Computation Author: Amir Hossein Gandomi, Mehmet Algorithms Chapter 19 Improvement of PSO Algorithm by Memory-Based Gradient SearchApplication in Inventory Management **Andras Kiraly - Google Scholar Citations** Improvement of

PSO Algorithm by Memory-Based Gradient SearchApplication in Inventory Management. Swarm Intelligence and Bio-inspired Computation **Andras Kiraly - Google Scholar Citations** 19. Improvement of PSO Algorithm by Memory-Based Gradient SearchApplication in Inventory Management Tamas Varga, Andras Kiraly, Janos Abonyi **Andras Kiraly - ?????????? - Google Scholar** Bio-inspired algorithms such as ant colony algorithms, bat algorithms, bee algorithms, 14.7 Case Study of Stochastic MGA for the Expansion of Waste Management Facilities 14.8 Conclusions References 19. 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