Kusum Deep and Hadush Mebrahtu show two combined mutation operators to increase the performance of Genetic Algorithm that helps to find the minimum cost in the known Travelling Salesman problem (TSP). In order to do this the combined mutation operators which are named as Inverted Exchange and Inverted Displacement are compared with four existing mutation operators. These are programmed in C++ and algorithms, ten benchmark test problems and five variations of order crossover are used. Based implemented on a set of benchmark test problems taken from the TSPLIB.

Ruiz-Vanoye, Díaz-Parra and Zavala-Díaz propose the application of discriminant analysis to select appropriately the algorithm that better solves an instance of the Job Shop Scheduling Problem. The discriminant analysis was used as a method of machine learning to find the relation between the characteristics of the problem (complexity indicators) and the performance of algorithms. The prediction of the classification obtained of the discriminant analysis was 60%.

Malathi A. Santhosh Baboo S. use the clustering algorithm and Anomalies detection for a data mining approach to help predict the crimes patterns and speed up the process of solving crime. They applied the MV algorithm, DBScan and PAM outlier detection algorithm with some enhancements to aid in the process of filling the missing value and identification of real crime patterns. They use semi-supervised learning technique here for knowledge discovery from the crime records and to help increase the predictive accuracy.

Appasami and Suresh Joseph.K focus on green computing by optimizing operating systems and scheduling of hardware resources. The objectives of the green computing are human power, electrical energy, time and cost reduction without polluting the environment while developing the software. Operating System (OS) Optimization is very important for Green computing, because it is bridge for both hardware components and Application Software. The important Steps for green computing user and energy efficient usage are also discussed in this paper.

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