Abstract

Genetic algorithm is an evolutionary approach for solving space layout and optimization problems. Due to some drawbacks in genetic algorithm, several modifications are performed on this algorithm. When the advantages of GA are combined with advantages of another algorithm then this approach is called Hybrid Genetic Algorithm. One of the most difficult problems in architectural design is space layout problem. Various methods are proposed for solving this problem like hybrid genetic algorithm, fuzzy logic, and artificial neural network. Space layout problem commonly occurs in warehouse, hotel, building floors, containers, shelves etc. Present paper contains a review on genetic algorithm, hybrid genetic algorithm approaches for solving space allocation problems on different sample test like warehouse, shelf, building floors and container etc. A comparison has been done of twelve research paper. The findings of this paper will be useful for those who look for solution of space allocation problem on different models.

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Index Terms

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Genetic algorithm  Hybrid genetic algorithm  Space allocation problems. .