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To cope with the SGA deficiency, we netic A investigate the use of a competent GA: the Ordering messy GA (OmeGA). Tests confirm the superiority of the OmeGA over a SGA for hard DSM problems. Extensions enhancing the efficiency of both a SGA and the OmeGA, in particular niching and hybridization with a local search method, are also investigated.

## **Design Process Sequencing with Competent Genetic Algorithms**

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Our tests indicate that certain DSM characteristics (e.g., size, sparseness, and sequencing objective) cause serious problems for simple Genetic Algorithm (SGA) designs. To cope with the SGA deficiency, we investigate the use of a competent GA: the ordering messy GA (OmeGA). Tests confirm the superiority of the OmeGA over a SGA for hard DSM problems.

### **Design Process Sequencing With Competent Genetic Algorithms**

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### **Design Process Sequencing With Competent Genetic Algorithms**

Over the past two decades or so, various competent genetic algorithms (competent GAs) [33, 35–37] have been developed to tackle the linkage and scalability problem of GA. They can be broadly divided into two classes. Also referred to as the perturbation technology, the first class is based on evolving the representation of solutions or adapting recombination operators among individual solutions.

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Since it is known that the cGA with high probability needs at least  $\Omega(\mu \sqrt{n})$  iterations to optimize the unimodal  $\text{OneMax}$  function, our result shows that the cGA in contrast to most classic evolutionary algorithms here is able to cross moderate-sized valleys of low fitness at no extra cost.

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In computer science and operations research, a genetic algorithm (GA) is a metaheuristic inspired by the process of natural selection that belongs to the larger class of evolutionary

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algorithms (EA). Genetic algorithms are commonly used to generate high-quality solutions to optimization and search problems by relying on biologically inspired operators such as mutation, crossover and selection.

## **Genetic algorithm - Wikipedia**

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In computer science and operations research, a memetic algorithm (MA) is an extension of the traditional genetic algorithm. It uses a local search technique to reduce the likelihood of the premature convergence. Memetic algorithms represent one of the recent growing areas of research in evolutionary computation. The term MA is now widely used as a synergy of evolutionary or any population-based ...

## **Memetic algorithm - Wikipedia**

Genetic Algorithms and Evolutionary Computation: Omega: A Competent Genetic Algorithm for Solving Permutation and Scheduling Problems (Paperback) Geekboots for programmer designer and tech enthusiast Genetic algorithms are the methods of solving search-based optimization on the principles of Genetics and Natural Selection, the process that drives biological evolution.

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used in the OMEGA system albeit for a different type of scheduling problem. Table 1 lists these parameters. ...

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