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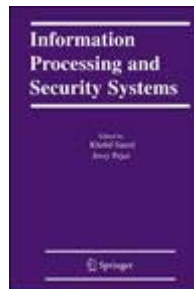
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**The Jeep Problem, searching for the best strategy with a genetic algorithm**

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**Abstract**

In the Jeep Problem, the goal is to maximize the distance the jeep can penetrate into the desert using a given quantity of fuel. The jeep must not take all the fuel from the base at once. The jeep is allowed to go forward, unload some fuel, and then return to its base using the fuel remaining in its tank. At the base, it may refuel and set out again. When it reaches the fuel it has stored previously, it may use it to fill up its tank. This paper describes an attempt of solving this problem (finding the best strategy for the jeep) with a genetic algorithm. Experiments with both binary and real-coded GAs were performed.

**Keywords** The jeep problem - optimization - genetic algorithm

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