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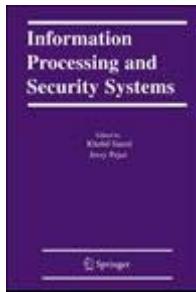
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Book Chapter

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

Book	Information Processing and Security Systems
Publisher	Springer US
DOI	10.1007/b137371
Copyright	2005
ISBN	978-0-387-25091-5 (Print) 978-0-387-26325-0 (Online)
Part	Part III
DOI	10.1007/0-387-26325-X_41
Pages	453-464
Subject Collection	Computer Science
SpringerLink Date	Tuesday, December 06, 2005



Information Processing and Security Systems

10.1007/0-387-26325-X_41

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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

References secured to subscribers.

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