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# A GENETIC ALGORITHM FOR UAV ROUTING INTEGRATED WITH A PARALLEL SWARM SIMULATION (PAPERBACK)



A Genetic Algorithm for  
UAV Routing Integrated with  
a Parallel Swarm Simulation

Air Force Institute of Technology (U.S.)  
Graduate School of Engineering and  
Management, Anonymous

Biblioscholar, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This research investigation addresses the problem of routing and simulating swarms of UAVs. Sorties are modeled as instantiations of the NP-Complete Vehicle Routing Problem, and this work uses genetic algorithms (GAs) to provide a fast and robust algorithm for a priori and dynamic routing applications. Swarms of UAVs are modeled based on extensions of Reynolds swarm research and...

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- Authored by Matthew a Russell
- Released at 2012



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