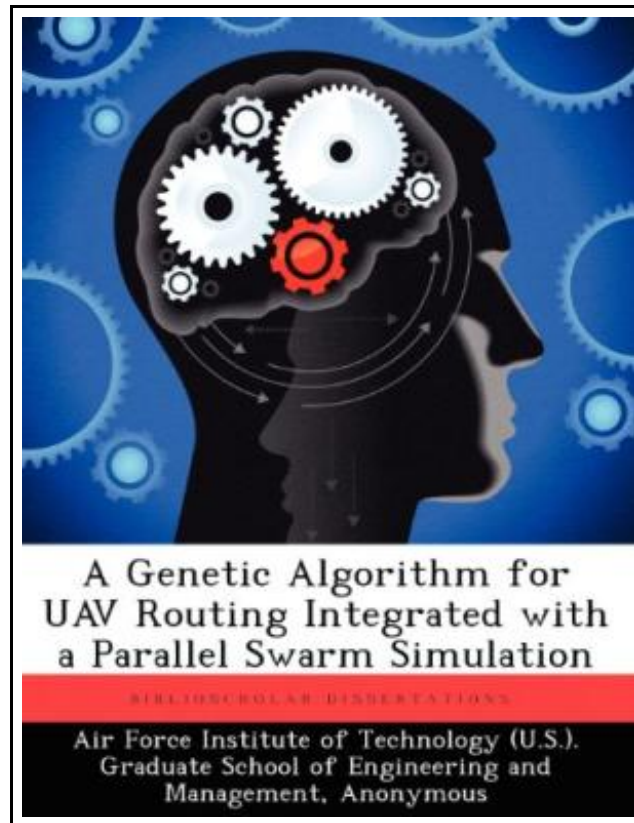


A Genetic Algorithm for Uav Routing Integrated with a Parallel Swarm Simulation (Paperback)



Filesize: 8.13 MB

Reviews

This ebook will never be simple to begin on reading but very entertaining to see. It is actually rally exciting throgh reading period of time. You wont truly feel monotony at at any moment of the time (that's what catalogues are for regarding should you ask me).

(Trevion O'Hara)

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

[DOWNLOAD](#)

To download **A Genetic Algorithm for Uav Routing Integrated with a Parallel Swarm Simulation (Paperback)** PDF, remember to refer to the web link under and download the file or have accessibility to additional information which might be related to **A GENETIC ALGORITHM FOR UAV ROUTING INTEGRATED WITH A PARALLEL SWARM SIMULATION (PAPERBACK)** ebook.

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 are simulated on a Beowulf cluster as a parallel computing application using the Synchronous Environment for Emulation and Discrete Event Simulation (SPEEDES). In a test suite, standard measures such as benchmark problems, best published results, and parallel metrics are used as performance measures. The GA consistently provides efficient and effective results for a variety of VRP benchmarks. Analysis of the solution quality over time verifies that the GA exponentially improves solution quality and is robust to changing search landscapes making it an ideal tool for employment in UAV routing applications. Parallel computing metrics calculated from the results of a PDES show that consistent speedup (almost linear in many cases) can be obtained using SPEEDES as the communication library for this UAV routing application. Results from the routing application and parallel simulation are synthesized to produce a more advanced model for routing UAVs.



[Read A Genetic Algorithm for Uav Routing Integrated with a Parallel Swarm Simulation \(Paperback\) Online](#)



[Download PDF A Genetic Algorithm for Uav Routing Integrated with a Parallel Swarm Simulation \(Paperback\)](#)

You May Also Like



[PDF] **Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications . (Paperback)**

Follow the web link under to get "Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications . (Paperback)" file.

[Read ePub »](#)



[PDF] **A Kindergarten Manual for Jewish Religious Schools; Teacher s Text Book for Use in School and Home (Paperback)**

Follow the web link under to get "A Kindergarten Manual for Jewish Religious Schools; Teacher s Text Book for Use in School and Home (Paperback)" file.

[Read ePub »](#)



[PDF] **A Year Book for Primary Grades; Based on Froebel s Mother Plays (Paperback)**

Follow the web link under to get "A Year Book for Primary Grades; Based on Froebel s Mother Plays (Paperback)" file.

[Read ePub »](#)



[PDF] **Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1624-1625) (Paperback)**

Follow the web link under to get "Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1624-1625) (Paperback)" file.

[Read ePub »](#)



[PDF] **Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625) (Paperback)**

Follow the web link under to get "Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625) (Paperback)" file.

[Read ePub »](#)



[PDF] **Variations on an Original Theme Enigma , Op. 36: Study Score (Paperback)**

Follow the web link under to get "Variations on an Original Theme Enigma , Op. 36: Study Score (Paperback)" file.

[Read ePub »](#)