Heuristic Route Generation For The Navy Mission Planner Defense

International Business Machines Corporation

Heuristic Route Generation For The Navy Mission Planner Defense:

Heuristic Route Generation for the Navy Mission Planner Naval Postgraduate Naval Postgraduate School,2014-11-14 Navy Mission Planner is a decision support tool for operational planning at the theater level It takes as input a scenario defined by a list of ships and their multi mission capabilities a list of missions to be accomplished their values to a commander and their locations and a fixed time horizon and it produces as output an employment schedule consisting of a route plan and a set of missions to accomplish for each ship on each day in the scenario It attempts to maximize the total value of missions covered in the scenario by utilizing each ship to the best of its capabilities while balancing the geographic distribution of missions the limited capability of the ships and the limited time horizon Prior versions used a limited enumeration routine to generate a manageable number of routes for each ship We develop a heuristic route generator that reduces the runtime and provides better starting routes improving the overall quality of solutions obtained by Navy Mission Planner Government Reports Announcements & Index ,1992 **Scientific and Technical Aerospace Reports** ,1991 **Artificial Intelligence in HCI** Helmut Degen,Stavroula Ntoa,2023-07-08 This double volume book set constitutes the refereed proceedings of 4th International Conference AI HCI 2023 held as part of the 25th International Conference HCI International 2023 which was held virtually in Copenhagen Denmark in July 2023 The total of 1578 papers and 396 posters included in the HCII 2023 proceedings was carefully reviewed and selected from 7472 submissions The first volume focuses on topics related to Human Centered Artificial Intelligence explainability transparency and trustworthiness ethics and fairness as well as AI supported user experience design The second volume focuses on topics related to AI for language text and speech related tasks human AI collaboration AI for decision support and perception analysis and innovations in AI enabled systems *International Aerospace Abstracts* ,1995 **Optical Engineering** ,1986 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology NASA SP. ,1990 **Aeronautical Engineering** ,1990 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Aeronautical Engineering: A Cumulative Index to a Continuing Bibliography (supplement 248)** ,1990 *Artificial Intelligence Abstracts* ,1989 Administration & Management ,1988 **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1995 **AGARD Index of Publications** North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development,1989 Electrical & Electronics Abstracts ,1995 *A KWIC Index in Operations Research* International Business Machines Corporation,1967 **Government reports annual index** ,199? **CAD/CAM Abstracts** ,1992 **Heuristic Route Optimization: A Model for Force Level Route Planning** Janet L. Barboza,ROME LAB GRIFFISS AFB NY.,1991 A major shortcoming of tools and methods currently

employed for route planning is that they do not incorporate force level factors or if they do the representation is inadequate Many important factors necessary for approaching the best possible route are ignored Heuristic Route Optimization or HERO an exploratory development project of the Advanced Concepts Branch of Rome Laboratory is a model for automated route generation for force level mission planning Object Oriented techniques and a dynamic threat representation allow detailed analysis of multiple planning variables in producing effective survivable mission plans *Game-Theoretic Anti-Submarine Warfare Mission Planner (Heuristic-Based, Fully Excel Capable).* ,2009 This thesis introduces a Game Theoretic Anti Submarine Warfare Mission Planner G TAMP that can quickly operate on a Navy Marine Corps Intranet NMCI computer without any software other than NMCI standard Microsoft Office Visual Basic for Applications VBA and a freely available optimization package called LP SOLVE employed as a dynamically linked library We replace the expensive and non NMCI approved mathematical modeling software used by Adam Thomas in his 2008 thesis with a purpose built fast heuristic solver implemented in VBA This heuristic called the Alternating Flows Heuristic approximately solves the Thomas defender attacker defender D A D model thereby deploying both visible and secret anti submarine warfare ASW platforms around a high value unit HVU to minimize the probability that a hostile diesel electric submarine SSK penetrates these platforms undetected and reaches the HVU We analyze five scenarios and compare our heuristic solution with the optimal ones produced by Thomas D A D model **Waypoint Generation and Route Planning for Terrain Relative Navigation** Steven Patrick Krukowski,2019 Navigation is a key capability for autonomous systems requiring both determination of the system s position relative to the target and development of a plan to get there In some applications the amount of information incorporated into the position estimate depends on the location of the autonomous system When the information is sparse the route to the target site can impact the system s ability to localize Planning a route to increase localization accuracy can greatly increase the likelihood of successfully navigating to the site Many robotic systems rely on GPS for localization however this option is unavailable underwater Terrain Relative Navigation TRN is a localization technique that was previously developed to enable Autonomous Underwater Vehicles AUVs to perform missions to sites on the seafloor Accurate localization requires observation of varying informative terrain Many underwater missions are over flat terrain with only sparse areas of high information A well planned route that guides the AUV over the informative terrain can increase localization accuracy when arriving at the target Route planning for TRN presents several challenges that are not addressed by current planning techniques Belief space motion planning techniques have been applied to similar problems however these techniques rely on the use of a linearized Gaussian position estimate This assumption is not valid for TRN TRN uses a particle filter a Monte Carlo localization technique to handle the multi modal distribution that may arise from the information sparsity The planning techniques for linearized Gaussian estimates extend the state space with a compact representation of the positional uncertainty and solve for a path using traditional search methods These methods are not easily adaptable to use with a

particle filter Several planning techniques for partially observable Markov decision processes POMDPs are adapted for particle filter estimation however POMDP solution techniques solve for an approximate optimal closed loop policy Since the AUV routes are determined prior to starting the mission the policy search techniques for particle filters do not apply for this application This thesis presents a planning technique called the TRN Route Planning Method TRN RPM which generates the intermediate waypoints of the route TRN RPM formulates route planning as an optimization to maximize the probability of arriving within a given threshold from a target site A simulation of the AUV was developed to generate Monte Carlo samples of the target error distribution from different vehicle trajectories along a given route These samples are used to approximate a route s success probability Monte Carlo estimation greatly increases the computation required Therefore a two step method was developed to limit the time needed for route selection First the number of potential waypoint locations is limited by using a heuristic based on the posterior Cramer Rao lower bound to place waypoints in informative areas The waypoints are used to form a finite number of high value candidate routes for the optimization Second the optimization speed is increased by using a specialized version of Thompson sampling Thompson sampling is a search strategy that balances exploration and exploitation Traditional Thompson sampling is modified to incorporate an upper bound on the success probability reducing the time until convergence Additionally the simulation is structured to reuse data from previously computed routes TRN RPM accurately estimates the success probability and greatly reduces the time required to plan routes for TRN missions TRN RPM was demonstrated using simulation and experimental dive results The method was used to plan routes for two missions in Monterey Bay California The simulation results demonstrate convergence to routes with a high success probability in 1 100th of the time required for an exhaustive search of all candidate routes One of these missions was experimentally demonstrated on an AUV operated by the Monterey Bay Aquarium Research Institute MBARI These demonstrations included several runs in which the AUV followed the optimized route as well as runs using several other non optimized routes for comparison They demonstrated that using TRN RPM can effectively increase mission success probability in real world TRN missions

Whispering the Secrets of Language: An Mental Quest through **Heuristic Route Generation For The Navy Mission Planner Defense**

In a digitally-driven world wherever displays reign great and quick conversation drowns out the subtleties of language, the profound strategies and psychological nuances concealed within words usually move unheard. Yet, situated within the pages of **Heuristic Route Generation For The Navy Mission Planner Defense** a captivating literary treasure blinking with organic feelings, lies an extraordinary quest waiting to be undertaken. Composed by an experienced wordsmith, that enchanting opus encourages visitors on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within the fabric of each and every word. Within the mental depths of the poignant review, we can embark upon a genuine exploration of the book is core subjects, dissect its fascinating publishing style, and yield to the powerful resonance it evokes strong within the recesses of readers hearts.

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Heuristic Route Generation For The Navy Mission Planner Defense Introduction

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