

Automatic Guided Vehicle Simulation in MATLAB by Using Genetic Algorithm

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1. Introduction

The prodigious advances in robotics in recent times made the use of robots more present in modern society. One important advance that requires special attention is the development of an unmanned aerial vehicle (UAV), which allows an aircraft to fly without having a human crew on board, although the UAVs still need to be controlled by a pilot or a navigator.

Today's UAVs often combine remote control and computerized automation in a manner that built-in control and/or guidance systems performs deeds like speed control and flight-path stabilization. In this sense, existing UAVs are not truly autonomous, mostly because air-vehicle autonomy field is a recently emerging field, and this could be a bottleneck for future UAV development.

It could be said that the ultimate goal in the autonomy technology development is to replace human pilots by altering machines decisions in order to make decisions like humans do. For this purpose, several tools related with artificial intelligence could be employed such as expert systems, neural networks, machine learning and natural language processing (HAYKIN, 2009). Nowadays, the field of autonomy has mostly been following a bottom-up approach, such as hierarchical control systems (SHIM, 2000).

One interesting methodology from the hierarchical control systems approach is the subsumption architecture that decomposes complicated intelligent behavior into many "simple" behavior modules, which are organized into layers. Each layer implements a particular goal and higher layers are increasingly more abstract. The decisions are not taken by a superior layer, but by listening to the information that are triggered by sensory inputs (lowest layer). This methodology allows the use of reinforcement learning to acquire behavior with the information that comes with experience.

Inspired by old behaviorist psychology, reinforcement learning (RL) concerned with how an agent ought to take actions in an environment, so as to maximize some notion of cumulative reward. Reinforcement learning differs from standard supervised learning in that correct input/output pairs which are never presented (HAYKIN, 2009). Furthermore, there is a focus on an on-line performance, which involves finding a balance between exploration (of uncharted territory) and exploitation (of current knowledge). The reinforcement learning has been applied successfully to various problems, including robot control, elevator scheduling, telecommunications, backgammon and chess (SHIM, 2000).

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**Suresh Chandra Satapathy, Swagatam
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Automatic Guided Vehicle Simulation in MATLAB by Using Genetic Algorithm Anibal Azevedo, 2011 **Handbook of Engineering Hydrology (Three-Volume Set)** Saeid Eslamian, 2018-10-03 While most books examine only the classical aspects of hydrology this three volume set covers multiple aspects of hydrology and includes contributions from experts from more than 30 countries It examines new approaches addresses growing concerns about hydrological and ecological connectivity and considers the worldwide impact of climate change *Mastering Simulink* Cybellium, Unleash the Power of Model Based Design for Engineering and Innovation In the realm of engineering and system design Simulink stands as a transformative tool that empowers professionals to visualize and simulate complex systems Mastering Simulink is your comprehensive guide to understanding and harnessing the potential of this powerful platform enabling you to create and simulate dynamic models that drive innovation and accelerate development About the Book As technology advances the ability to model and simulate complex systems becomes increasingly important Mastering Simulink offers an in depth exploration of this cutting edge tool an essential toolkit for engineers researchers and enthusiasts This book caters to both newcomers and experienced learners aiming to excel in modeling simulation and design using Simulink Key Features Simulink Essentials Begin by understanding the core principles of Simulink Learn about the user interface building blocks and how to create models using graphical representations Modeling Techniques Dive into modeling techniques Explore methods for representing and simulating various types of systems from control systems to physical processes Simulating Dynamic Systems Grasp the art of simulating dynamic systems Understand how to define initial conditions run simulations and analyze results for system behavior Model Verification and Validation Explore techniques for verifying and validating models Learn how to ensure that your simulated models accurately represent real world systems Model Based Design Understand the significance of model based design Learn how Simulink enables you to design simulate and iterate on systems before implementation Control System Design Delve into control system design using Simulink Explore techniques for designing controllers analyzing closed loop systems and tuning parameters Physical System Modeling Grasp physical system modeling techniques Learn how to simulate mechanical electrical and multidomain systems using Simulink Real World Applications Gain insights into how Simulink is applied across industries From aerospace to automotive discover the diverse applications of this tool Why This Book Matters In a world driven by complex engineering challenges mastering Simulink offers a competitive advantage Mastering Simulink empowers engineers researchers and technology enthusiasts to leverage this dynamic platform enabling them to create and simulate models that enhance system design analysis and innovation Accelerate Innovation with Model Based Design In the landscape of engineering and innovation Simulink is a transformative tool that drives efficiency and accuracy Mastering Simulink equips you with the knowledge needed to leverage this powerful platform enabling you to create and simulate dynamic models that push the boundaries of innovation

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Advances in Interdisciplinary Engineering Niraj Kumar, Szalay Tibor, Rahul Sindhvani, Jaesun Lee, Priyank Srivastava, 2021-04-12 This book comprises the select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering FLAME 2020 This volume focuses on several emerging interdisciplinary areas involving mechanical engineering Some of the topics covered include automobile engineering mechatronics applied mechanics structural mechanics hydraulic mechanics human vibration biomechanics biomedical Instrumentation ergonomics biodynamic modeling nuclear engineering and agriculture engineering The contents of this book will be useful for students researchers as well as professionals interested in interdisciplinary topics of mechanical engineering

Robotic Welding, Intelligence and Automation Tzyh-Jong Tarn, Shan-Ben Chen, Changjiu Zhou, 2007-08-13 Robotic welding systems have been used in different types of manufacturing They can provide several benefits in welding applications The most prominent advantages of robotic welding are precision and productivity Another benefit is that labor costs can be reduced Robotic welding also reduces risk by moving the human welder operator away from hazardous fumes and molten metal close to the welding arc The robotic welding system usually involves measuring and identifying the component to be welded we ing it in position controlling the welding parameters and documenting the produced welds However traditional robotic welding systems rely heavily upon human interv tion It does not seem that the traditional robotic welding techniques by themselves can cope well with uncertainties in the welding surroundings and conditions e g variation of weld pool dynamics fluxion solid weld torch and etc On the other hand the advent of intelligent techniques provides us with a powerful tool for solving demanding re world problems with uncertain and unpredictable environments Therefore it is intere ing to gather current trends and to provide a high quality forum for engineers and researchers working in the filed of intelligent techniques for robotic welding systems This volume brings together a broad range of invited and contributed papers that describe recent progress in this field

Advances in Hydraulic and Pneumatic Drives and Control 2023 Jarosław Stryczek, Urszula Warzyńska, 2023-09-25 This book reports on cutting edge research and

technical achievements in the field of hydraulic drives The chapters selected from contributions presented at the International Scientific Technical Conference on Hydraulic and Pneumatic Drives and Controls NSHP 2023 held on October 11 13 2023 in Piechowice Poland cover a wide range of topics such as theoretical advances in fluid technology work machines in mining construction marine and manufacturing industry and practical issues relating to the application and operation of hydraulic drives Further topics include safety and environmental issues associated with the use of machines with hydraulic drive designing test stands with hydraulic and pneumatic components advancing control of hydraulic systems analyzing vibration issues application of renewable energy sources and new materials in the design of hydraulic components Special emphasis is given to new solutions for hydraulic components and systems as well as to the identification of phenomena and processes occurring during the operation of hydraulic and pneumatic systems

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