

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 perform 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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Automatic Guided Vehicle Simulation in MATLAB by Using Genetic Algorithm Anibal Azevedo, 2011 *MATLAB for Engineers* Karel Perutka, 2011-10-13 The book presents several approaches in the key areas of practice for which the MATLAB software package was used Topics covered include applications for Motors Power systems Robots Vehicles The rapid development of technology impacts all areas Authors of the book chapters who are experts in their field present interesting solutions of their work The book will familiarize the readers with the solutions and enable the readers to enlarge them by their own research It will be of great interest to control and electrical engineers and students in the fields of research the book covers 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

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Engineering Constantin Volosencu, 2022-02-02 The book presents a comprehensive overview of MATLAB and Simulink programming Chapters discuss MATLAB programming for practical usages in mesosphere stratosphere troposphere MST radars geometric segmentation Bluetooth applications and control of electric drives The published examples highlight the capabilities of MATLAB programming in the fields of mathematical modeling algorithmic development data acquisition time simulation and testing Cyber Warfare and Terrorism: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2020-03-06 Through the rise of big data and the internet of things terrorist organizations have been freed from geographic and logistical confines and now have more power than ever before to strike the average citizen directly at home This coupled with the inherently asymmetrical nature of cyberwarfare which grants great advantage to the attacker has created an unprecedented national security risk that both governments and their citizens are woefully ill prepared to face Examining cyber warfare and terrorism through a critical and academic perspective can lead to a better understanding of its foundations and implications Cyber Warfare and Terrorism Concepts Methodologies Tools and Applications is an essential reference for the latest research on the utilization of online tools by terrorist organizations to communicate with and recruit potential extremists and examines effective countermeasures employed by law enforcement agencies to defend against such threats Highlighting a range of topics such as cyber threats digital intelligence and counterterrorism this multi volume book is ideally designed for law enforcement government officials lawmakers security analysts IT specialists software developers intelligence and security practitioners students educators and researchers

Proceedings of the International Conference on Sustainable Energy Technologies Djourkov Todor, Sivanappan Kumar, Seung-Bok Choi, Hung Nguyen-Xuan, Quoc Hung Nguyen, Thanh Trung Bui, 2024-07-12 This book includes selected peer reviewed articles from the International Conference on Sustainable Energy Technology ICSET 2023 held at the Industrial University of Ho Chi Minh City Vietnam with a focus on the theme Sustainable Energy Technologies in the Fourth Industrial Revolution Topics refer to heat and refrigeration engineering including heat transfer and heat exchanger energy saving and efficient use of energy energy safety sustainable energy development and environmental protection new energy

and renewable energy techniques for drying and preserving agricultural and food products boilers and heat network gasification pyrolysis technology air conditioning and ventilation refrigeration equipment computational fluid dynamics computational intelligence in renewable energy optimization in electrical electronics systems advanced manufacturing technologies robotics and mechatronics automotive engineering The book not only provides an awareness on the vital importance of sustainability in technologies economics education and countries development but also highlights the essential roles of technological innovations in attaining sustainable development It provides an international platform for researchers practitioners policymakers and entrepreneurs to present recent advances and to exchange knowledge and experience on various topics related to the theme of sustainable energy technology in the fourth industrial revolution

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 Interdisciplinary Engineering Niraj Kumar, Szalay Tibor, Rahul Sindhwani, 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

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

Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems: Volume 2 Suresh Chandra Satapathy,Swagatam Das,2016-05-03 This volume contains 60 papers presented at ICTIS 2015 International Conference on Information and Communication Technology for Intelligent Systems The conference was held during 28th and 29th November 2015 Ahmedabad India and organized communally by Venus International College of Technology Association of Computer Machinery Ahmedabad Chapter and Supported by Computer Society of India Division IV Communication and Division V Education and Research This volume contains papers mainly focused on ICT and its application for Intelligent Computing Cloud Storage Data Mining Image Processing and Software Analysis etc *Signal and Information Processing, Networking and Computers* Jiaqi Zou,Gang Sun,Yue Wang,Lexi Xu,2025-06-16 This proceedings book presents the latest research in the fields of signal and information processing schemes computer theory space technologies big data as well as other related technologies Collecting selected papers from the 12th Conference on Signal and Information Processing Networking and Computers ICSINC is held in Chongqing China on September 10 13 2024 it is of interest to professionals from academia and industry alike Multi-Agent-Based Simulation IX Nuno David,2009-05-05 This book constitutes the thoroughly refereed postproceedings of the 9th International Workshop on Multi Agent based Simulation MABS 2008 held in Estoril Portugal in May 2008 The 16 revised full papers presented have gone through two rounds of reviewing selection and improvement and were selected from 44 submissions they present state of the art research results in agent based simulation and modeling The papers are organized in topical sections on simulation of economic behaviour modelling and simulation of social behaviour applications techniques infrastructure and technologies as well as methods and methodologies **17th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2022)** Pablo García Bringas,Hilde Pérez García,Francisco Javier Martínez-de-Pison,José Ramón Villar Flecha,Alicia Troncoso Lora,Enrique A. de la Cal,Álvaro Herrero,Francisco Martínez Álvarez,Giuseppe Psaila,Héctor Quintián,Emilio S. Corchado Rodríguez,2022-10-11 This book contains accepted papers presented at SOCO 2022 conference held in the beautiful and historic city of Salamanca Spain in September 2022 Soft computing represents a collection or set of computational techniques in machine learning computer science and some engineering disciplines which investigate simulate

and analyze very complex issues and phenomena After a thorough peer review process the 17th SOCO 2022 International Program Committee selected 64 papers which are published in these conference proceedings and represent an acceptance rate of 60% In this relevant edition a particular emphasis was put on the organization of special sessions Seven special sessions were organized related to relevant topics such as machine learning and computer vision in Industry 4.0 time series forecasting in industrial and environmental applications optimization modeling and control by soft computing techniques soft computing applied to renewable energy systems preprocessing big data in machine learning tackling real world problems with artificial intelligence The selection of papers was extremely rigorous to maintain the high quality of the conference We want to thank the members of the program committees for their hard work during the reviewing process This is a crucial process for creating a high standard conference the SOCO conference would not exist without their help

Intelligent Computing, Networked Control, and Their Engineering Applications Dong Yue, Chen Peng, Dajun Du, Tengfei Zhang, Min Zheng, Qinglong Han, 2017-09-01 The three volume set CCIS 761 CCIS 762 and CCIS 763 constitutes the thoroughly refereed proceedings of the International Conference on Life System Modeling and Simulation LSMS 2017 and of the International Conference on Intelligent Computing for Sustainable Energy and Environment ICSEE 2017 held in Nanjing China in September 2017 The 208 revised full papers presented were carefully reviewed and selected from over 625 submissions The papers of this volume are organized in topical sections on Biomedical Signal Processing Computational Methods in Organism Modeling Medical Apparatus and Clinical Applications Bionics Control Methods Algorithms and Apparatus Modeling and Simulation of Life Systems Data Driven Analysis Image and Video Processing Advanced Fuzzy and Neural Network Theory and Algorithms Advanced Evolutionary Methods and Applications Advanced Machine Learning Methods and Applications Intelligent Modeling Monitoring and Control of Complex Nonlinear Systems Advanced Methods for Networked Systems Control and Analysis of Transportation Systems Advanced Sliding Mode Control and Applications Advanced Analysis of New Materials and Devices Computational Intelligence in Utilization of Clean and Renewable Energy Resources Intelligent Methods for Energy Saving and Pollution Reduction Intelligent Methods in Developing Electric Vehicles Engines and Equipment Intelligent Computing and Control in Power Systems Modeling Simulation and Control in Smart Grid and Microgrid Optimization Methods Computational Methods for Sustainable Environment

International Journal of Manufacturing Technology and Management, 2006 **Agriculture Digitalization and Organic Production** Andrey Ronzhin, Mikalai Bakach, Alexander Kostyaev, 2024-10-24 This book includes selected papers from the Fourth International Conference on Agriculture Digitalization and Organic Production ADOP 2024 held in Minsk Belarus during June 05-08 2024 The topics covered in the book are ground robotic systems in crop production unmanned aerial vehicles in crop production aerospace monitoring tools in crop production robotic animal husbandry digitalization of technological processes of agricultural production evaluation of the effectiveness of digital technologies for the production of organic products rational

nature management and ecology in agricultural production technologies for the production of organic agricultural products market analysis of organic agricultural products and legal aspects of organic production *Advances in Automation and Robotics Research* Alexnder Martnez,Hctor A. Moreno,Isela G. Carrera,Alexandre Campos,Jos Baca,2020-01-29 This book gathers the proceedings of the 2nd Latin American Congress on Automation and Robotics held at Pontificia Universidad Javeriana de Cali Colombia on October 30th November 1st 2019 It presents papers from researchers scientists and engineers from academia and industry and explores current exciting research applications and future challenges mainly in Latin American countries The book covers a wide range of research fields associated with automation and robotics encountered in engineering scientific research and practice including autonomous systems multi robot and multi agent systems industrial automation and robotics process control modeling and optimization control theory artificial intelligence kinematic and dynamic analysis of robotic systems computer vision self localization mapping and navigation instruments sensing and sensor fusion evolutionary bio inspired micro nano and soft robotics novel robot designs haptics human robot interaction and interfaces simulation procedures experimental validations and educational robotics Engineering and Scientific Computations Using MATLAB Sergey E. Lyshevski,2005-01-21 Master MATLAB r step by step The MATLAB MATrix LABoratory computational environment offers a rich set of capabilities to efficiently solve a variety of complex analysis simulation and optimization problems Flexible powerful and relatively easy to use the MATLAB environment has become a standard cost effective tool within the engineering science and technology communities Excellent as a self teaching guide for professionals as well as a textbook for students Engineering and Scientific Computations Using MATLAB helps you fully understand the MATLAB environment build your skills and apply its features to a wide range of applications Going beyond traditional MATLAB user manuals and college texts Engineering and Scientific Computations Using MATLAB guides you through the most important aspects and basics of MATLAB programming and problem solving from fundamentals to practice Augmenting its discussion with a wealth of practical worked out examples and qualitative illustrations this book demonstrates MATLAB s capabilities and offers step by step instructions on how to apply the theory to a practical real world problem In particular the book features Coverage of a variety of complex physical and engineering systems described by nonlinear differential equations Detailed application of MATLAB to electromechanical systems MATLAB files scripts and statements as well as SIMULINK models which can be easily modified for application specific problems encountered in practice Readable user friendly and comprehensive in scope this is a welcome introduction to MATLAB for those new to the program and an ideal companion for engineers seeking in depth mastery of the high performance MATLAB environment

Mechatronics and Industrial Machines Thanh Nam Nguyen,2020-09-15 Selected peer reviewed papers from Conference on Mechanical Engineering and Manufacturing NCMME 2019 Selected peer reviewed papers from the National Conference on Mechanical Engineering and Manufacturing NCMME 2019 October 18 20 2019 Ho Chi Minh City Vietnam

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