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# Department of Robotics and Automation

# Two Day Hands On Training on

Building an Autonomous Line follower Robot Using
Arduino Uno

in association with





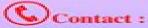
Yoi Robotics Laboratory

Date : 15/9/2022 -16/9/2022

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#### COURSE OUTLINE

- Single sensor edge avoidance
- Dual sensor Edge avoider Robot
- Dual Sensor Line Following Robot
- Speed Control with Analog interfacing
- Line tracking



Dr.A.Kishore Kumar: 8072619773

Mr.S.Sarveswaran: 8680941419



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# **Line Following Robot Seminar**

Papadakis, Stamatios, Kalogiannakis, Michail

#### **Line Following Robot Seminar:**

Proceedings of the 12th National Technical Seminar on Unmanned System Technology 2020 Khalid Isa, Zainah Md. Zain, Rosmiwati Mohd-Mokhtar, Maziyah Mat Noh, Zool H. Ismail, Ahmad Anas Yusof, Ahmad Faisal Mohamad Avob, Syed Saad Azhar Ali, Herdawatie Abdul Kadir, 2021-09-24 This book comprises the proceedings of the 12th National Technical Symposium on Unmanned System Technology 2020 NUSYS 20 held on October 27 28 2020 It covers a number of topics including intelligent robotics novel sensor technology control algorithms acoustics signal processing imaging techniques biomimetic robots green energy sources and underwater communication backbones and protocols and it appeals to researchers developing marine technology solutions and policy makers interested in technologies to facilitate the exploration of coastal and oceanic regions 11th World Conference "Intelligent System for Industrial Automation" (WCIS-2020) Rafik Aziz Aliev, Nodirbek Rustambekovich Yusupbekov, Janusz Kacprzyk, Witold Pedrycz, Fahreddin M. Sadikoglu, 2021-03-16 This book presents the proceedings of the 11th Scientific Conference Intelligent systems for industrial automation WCIS 2020 held in Tashkent Uzbekistan on November 26 28 2020 It includes contributions from diverse areas of intelligent industrial systems design as hybrid control systems intelligent information systems decision making under imperfect information and others The topics of the papers include intelligent control systems pattern recognition Industry 4 0 information security neural computing fuzzy and evolutionary computation decision making and support systems modeling of chemical technological processes and others Vision Based Autonomous Robot Navigation Amitava Chatterjee, Anjan Rakshit, N. Nirmal Singh, 2012-10-13 This monograph is devoted to the theory and development of autonomous navigation of mobile robots using computer vision based sensing mechanism The conventional robot navigation systems utilizing traditional sensors like ultrasonic IR GPS laser sensors etc suffer several drawbacks related to either the physical limitations of the sensor or incur high cost Vision sensing has emerged as a popular alternative where cameras can be used to reduce the overall cost maintaining high degree of intelligence flexibility and robustness This book includes a detailed description of several new approaches for real life vision based autonomous navigation algorithms and SLAM It presents the concept of how subgoal based goal driven navigation can be carried out using vision sensing The development concept of vision based robots for path line tracking using fuzzy logic is presented as well as how a low cost robot can be indigenously developed in the laboratory with microcontroller based sensor systems The book describes successful implementation of integration of low cost external peripherals with off the shelf procured robots An important highlight of the book is that it presents a detailed step by step sample demonstration of how vision based navigation modules can be actually implemented in real life under 32 bit Windows environment The book also discusses the concept of implementing vision based SLAM employing a two camera based system Applied Computer Sciences in Engineering Juan Carlos Figueroa-García, Juan G. Villegas, Juan Rafael Orozco-Arroyave, Pablo Andres Maya Duque, 2018-09-12 This two volume set CCIS 915 and CCIS 916 constitutes the refereed

proceedings of the 5th Workshop on Engineering Applications WEA 2018 held in Medell n Colombia in October 2018 The 41 revised full papers presented in this volume were carefully reviewed and selected from 101 submissions. The papers are organized in topical sections such as green logistics and optimization Internet of Things IoT digital signal processing DSP network applications miscellaneous applications <u>International Conference on Innovative Computing and Communications</u> Siddhartha Bhattacharyya, Aboul Ella Hassanien, Deepak Gupta, Ashish Khanna, Indrajit Pan, 2018-11-02 The book includes high quality research papers presented at the International Conference on Innovative Computing and Communication ICICC 2018 which was held at the Guru Nanak Institute of Management GNIM Delhi India on 5 6 May 2018 Introducing the innovative works of scientists professors research scholars students and industrial experts in the field of computing and communication the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real time applications **Proceedings of the 11th National Technical** Seminar on Unmanned System Technology 2019 Zainah Md Zain, Hamzah Ahmad, Dwi Pebrianti, Mahfuzah Mustafa, Nor Rul Hasma Abdullah, Rosdiyana Samad, Maziyah Mat Noh, 2020-07-07 This book includes research papers from the 11th National Technical Symposium on Unmanned System Technology Covering a number of topics including intelligent robotics novel sensor technology control algorithms acoustics signal processing imaging techniques biomimetic robots green energy sources and underwater communication backbones and protocols it will appeal to researchers developing marine technology solutions and policy makers interested in technologies to facilitate the exploration of coastal and oceanic regions

Artificial Intelligence and IoT-Based Technologies for Sustainable Farming and Smart Agriculture Tomar, Pradeep, Kaur, Gurjit, 2021-01-08 As technology continues to saturate modern society agriculture has started to adopt digital computing and data driven innovations This emergence of smart farming has led to various advancements in the field including autonomous equipment and the collection of climate livestock and plant data As connectivity and data management continue to revolutionize the farming industry empirical research is a necessity for understanding these technological developments Artificial Intelligence and IoT Based Technologies for Sustainable Farming and Smart Agriculture provides emerging research exploring the theoretical and practical aspects of critical technological solutions within the farming industry Featuring coverage on a broad range of topics such as crop monitoring precision livestock farming and agronomic data processing this book is ideally designed for farmers agriculturalists product managers farm holders manufacturers equipment suppliers industrialists governmental professionals researchers academicians and students seeking current research on technological applications within agriculture and farming Proceedings of International Conference on Recent Trends in Computing Rajendra Prasad Mahapatra, Sateesh K. Peddoju, S. Karthick, 2025-03-01 This book is a collection of high quality peer reviewed research papers presented at the International Conference on Recent Trends in Computing ICRTC 2024 organized by SRM Institute of Science and Technology Ghaziabad held in Delhi India from July 5 6

2024 The book is divided into two volumes and discusses a wide variety of industrial engineering and scientific applications of emerging techniques It presents original works from researchers in academia and industry in the fields of networking Sustainable Communication Networks and Application P. security big data and the Internet of Things Karrupusamy, Valentina Emilia Balas, Yong Shi, 2022-01-17 This book includes high quality research papers presented at 3rd International Conference on Sustainable Communication Networks and Applications ICSCN 2021 which is held at Surva Engineering College SEC Erode India during 29 30 July 2021 This book includes novel and state of the art research discussions that articulate and report all research aspects including theoretical and experimental prototypes and applications that incorporate sustainability into emerging applications The book discusses and articulates emerging challenges in significantly reducing the energy consumption of communication systems and also explains development of a sustainable and energy efficient mobile and wireless communication network It includes best selected high quality conference papers in different fields such as Internet of Things cloud computing data mining artificial intelligence machine learning autonomous systems deep learning neural networks renewable energy sources sustainable wireless communication networks QoS network sustainability and many other related areas Interactive Collaborative Robotics Andrey Ronzhin, Gerhard Rigoll, Roman Meshcheryakov, 2020-09-30 This book constitutes the proceedings of the 5th International Conference on Interactive Collaborative Robotics ICR 2020 held in St Petersburg Russia in October 2020 The 31 papers presented were carefully reviewed and selected from 62 submissions Challenges of human robot interaction robot control and behavior in social robotics and collaborative robotics as well as applied robotic and cyber physical systems are mainly discussed in the Handbook of Research on Using Educational Robotics to Facilitate Student Learning Papadakis, papers Stamatios, Kalogiannakis, Michail, 2020-12-05 Over the last few years increasing attention has been focused on the development of children's acquisition of 21st century skills and digital competences Consequently many education scholars have argued that teaching technology to young children is vital in keeping up with 21st century employment patterns Technologies such as those that involve robotics or coding apps come at a time when the demand for computing jobs around the globe is at an all time high while its supply is at an all time low There is no doubt that coding with robotics is a wonderful tool for learners of all ages as it provides a catalyst to introduce them to computational thinking algorithmic thinking and project management Additionally recent studies argue that the use of a developmentally appropriate robotics curriculum can help to change negative stereotypes and ideas children may initially have about technology and engineering The Handbook of Research on Using Educational Robotics to Facilitate Student Learning is an edited book that advocates for a new approach to computational thinking and computing education with the use of educational robotics and coding apps The book argues that while learning about computing young people should also have opportunities to create with computing which have a direct impact on their lives and their communities It develops two key dimensions for understanding and developing

educational experiences that support students in engaging in computational action 1 computational identity which shows the importance of young people s development of scientific identity for future STEM growth and 2 digital empowerment to instill the belief that they can put their computational identity into action in authentic and meaningful ways Covering subthemes including student competency and assessment programming education and teacher and mentor development this book is ideal for teachers instructional designers educational technology developers school administrators academicians researchers and students Motion Planning Edgar A. Martínez García,2022-01-26 Motion planning is a fundamental function in robotics and numerous intelligent machines The global concept of planning involves multiple capabilities such as path generation dynamic planning optimization tracking and control This book has organized different planning topics into three general perspectives that are classified by the type of robotic applications The chapters are a selection of recent developments in a planning and tracking methods for unmanned aerial vehicles b heuristically based methods for navigation planning and routes optimization and c control techniques developed for path planning of autonomous wheeled platforms

Intelligent and Fuzzy Techniques in Big Data Analytics and Decision Making Cengiz Kahraman, Selcuk Cebi, Sezi Cevik Onar, Basar Oztaysi, A. Cagri Tolga, Irem Ucal Sari, 2019-07-05 This book includes the proceedings of the Intelligent and Fuzzy Techniques INFUS 2019 Conference held in Istanbul Turkey on July 23 25 2019 Big data analytics refers to the strategy of analyzing large volumes of data or big data gathered from a wide variety of sources including social networks videos digital images sensors and sales transaction records Big data analytics allows data scientists and various other users to evaluate large volumes of transaction data and other data sources that traditional business systems would be unable to tackle Data driven and knowledge driven approaches and techniques have been widely used in intelligent decision making and they are increasingly attracting attention due to their importance and effectiveness in addressing uncertainty and incompleteness INFUS 2019 focused on intelligent and fuzzy systems with applications in big data analytics and decision making providing an international forum that brought together those actively involved in areas of interest to data science and knowledge engineering These proceeding feature about 150 peer reviewed papers from countries such as China Iran Turkey Malaysia India USA Spain France Poland Mexico Bulgaria Algeria Pakistan Australia Lebanon and Czech Republic

Sustainable Materials and Technologies in VLSI and Information Processing Shashi Kant Dargar, Shilpi Birla, Abha Dargar, Avtar Singh, D. Ganeshaperumal, 2025-05-23 The International Conference on Sustainable Materials and Technologies in VLSI and Information Processing aimed to converge advancements in semiconductor technology with sustainable practices addressing the critical need for eco consciousness in the field of Very Large Scale Integration VLSI and Information Processing The primary purpose of the conference was to explore innovative materials manufacturing processes and design methodologies that minimize environmental impact while optimizing performance and functionality in electronic devices Key features of the conference included interdisciplinary discussions on sustainable materials such as biodegradable polymers

low power semiconductor materials and recyclable electronic components Additionally it focused on emerging technologies like quantum computing neuromorphic computing and photonic integrated circuits exploring their potential contributions to sustainability in VLSI and information processing The intended audience comprised of researchers scientists engineers and industry professionals from academia government and private sectors involved in semiconductor technology materials science environmental sustainability and information processing What set this conference apart was its unique emphasis on sustainability within the realm of VLSI and information processing While there are conferences focusing on either semiconductor technology or sustainability separately this conference bridged the gap between the two fostering discussions and collaborations that pave the way for greener and more efficient electronic devices and systems **Applications of** Mobile Robots, 2019-03-20 This book includes a selection of research work in the mobile robotics area where several interesting topics are presented In this way we find a review of multi agents different techniques applied to the navigation systems artificial intelligence algorithms which include deep learning applications systems where a Kalman filter estimator is extended for visual odometry and finally the design of an on chip system for the execution of cognitive agents Additionally the development of different ideas in mobile robot applications are included and hopefully will be useful and enriching for Active Sensor Planning for Multiview Vision Tasks Shengyong Chen, Y. F. Li, Jianwei Zhang, Wanliang Wang, 2008-01-23 This unique book explores the important issues in studying for active visual perception. The book is eleven chapters draw on recent important work in robot vision over ten years particularly in the use of new concepts Implementation examples are provided with theoretical methods for testing in a real robot system With these optimal sensor planning strategies this book will give the robot vision system the adaptability needed in many practical applications

Motion Planning for Dynamic Agents Zain Anwar Ali, Amber Israr, 2024-01-17 This book Motion Planning for Dynamic Agents presents a thorough overview of current advancements and provides insights into the fascinating and vital field of aeronautics It focuses on modern research and development with an emphasis on dynamic agents The chapters address a wide range of complex capabilities including formation control guidance and navigation control techniques wide space coverage for inspection and exploration and the best pathfinding in unknown territory This book is a valuable resource for scholars practitioners and amateurs alike due to the variety of perspectives that are included which help readers gain a sophisticated understanding of the difficulties and developments in the area of study Frontiers in Robotics and Electromechanics Andrey Ronzhin, Viacheslav Pshikhopov, 2023-03-01 This book introduces intellectual control systems and electromechanics of heterogeneous robots The book uncovers fundamental principles of robot control and recent developments in software and hardware of robots The book presents solutions and discusses problems of single robotic devices as well as heterogeneous robotic teams while performing technological tasks that require informational physical or energetic interaction with human users environment and other robots The book considers model algorithmic and software

hardware control of ground water and underwater robots unmanned aerial vehicles as well as their embedded and attached sub systems including manipulators end effectors sensors actuators etc The book will be useful for researchers of interdisciplinary issues related to robotics electromechanics and artificial intelligence. The book is recommended for graduate students with a major minor in the areas of robotics and mechatronics management in technical systems Internet of Things artificial intelligence electrical engineering mechanical engineering and computer science Recent Advances in Internet of Things and Machine Learning Valentina E. Balas, Vijender Kumar Solanki, Raghvendra Kumar, 2022-02-14 This book covers a domain that is significantly impacted by the growth of soft computing Internet of Things IoT related applications are gaining much attention with more and more devices which are getting connected and they become the potential components of some smart applications. Thus a global enthusiasm has sparked over various domains such as health agriculture energy security and retail So in this book the main objective is to capture this multifaceted nature of IoT and machine learning in one single place According to the contribution of each chapter the book also provides a future direction for IoT and machine learning research The objectives of this book are to identify different issues suggest feasible solutions to those identified issues and enable researchers and practitioners from both academia and industry to interact with each other regarding emerging technologies related to IoT and machine learning In this book we look for novel chapters that recommend new methodologies recent advancement system architectures and other solutions to prevail over the limitations of IoT and machine learning

2016 International Symposium on Experimental Robotics Dana Kulić, Yoshihiko Nakamura, Oussama Khatib, Gentiane Venture, 2017-03-20 Experimental Robotics XV is the collection of papers presented at the International Symposium on Experimental Robotics Roppongi Tokyo Japan on October 3 6 2016 73 scientific papers were selected and presented after peer review The papers span a broad range of sub fields in robotics including aerial robots mobile robots actuation grasping manipulation planning and control and human robot interaction but shared cutting edge approaches and paradigms to experimental robotics The readers will find a breadth of new directions of experimental robotics The International Symposium on Experimental Robotics is a series of bi annual symposia sponsored by the International Foundation of Robotics Research whose goal is to provide a forum dedicated to experimental robotics research Robotics has been widening its scientific scope deepening its methodologies and expanding its applications However the significance of experiments remains and will remain at the center of the discipline The ISER gatherings are a venue where scientists can gather and talk about robotics based on this central tenet

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