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# Department of Robotics and Automation

# Two Day Hands On Training on

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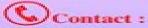
Yoi Robotics Laboratory

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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



SCAN FOR REGISTRATION



\*Certificate will be provided to all the participants

# **Line Following Robot Seminar**

J. E. Rijnsdorp, Tj. Plomp, J. Möller

#### **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 Ayob, 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 PROCEEDINGS OF NATIONAL SEMINAR ON MULTIDISCIPLINARY RESEARCH AND PRACTICE VOLUME 2 Dr. M. Kanika Priya, This Conference Proceedings of the National Seminar entitled Multidisciplinary Research and Practice compiled by Dr M Kanika Priya records various research papers written by eminent scholars professors and students The articles range from English literature to Tamil literature Arts Humanities Social Science Education Performing Arts Information and Communication Technology Engineering Technology and Science Medicine and Pharmaceutical Research Economics Sociology Philosophy Business Management Commerce and Accounting Teacher Education Higher Education Primary and Secondary Education Law Science Mathematics Physics Chemistry Zoology Botany Agriculture and Computer Science Researchers and faculty members from various disciplines have contributed their research papers This book contains articles in Three languages namely English Tamil and Hindi As a editor Dr M Kanika Priya has taken up the tedious job of checking the validity and correctness of the research work in bringing out this conference proceedings in a beautiful manner In its present shape and size this anthology will hopefully find a place on the library shelves and enlighten the academics all round the world **Handbook of Research on Using Educational** Robotics to Facilitate Student Learning Papadakis, 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 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 Proceedings of the 10th National Technical Seminar on Underwater System Technology 2018 Zainah Md Zain, Hamzah Ahmad, Dwi Pebrianti, Mahfuzah Mustafa, Nor Rul Hasma Abdullah, Rosdiyana Samad, Maziyah Mat Noh, 2019-02-08 This book presents cutting edge research papers in the field of Underwater System Technology in Malaysia and Asia in general The topics covered include intelligent robotics novel sensor technologies control algorithms acoustic signal processing imaging techniques biomimetic robots green energy sources and underwater communication backbones and protocols The book showcases some of the latest technologies and applications developed to facilitate local marine exploration and exploitation It also addresses related topics concerning the Sustainable Development Goals SDG outlined by the United Nations Training for Tomorrow J. E. Rijnsdorp, Tj. Plomp, J. Möller, 2016-06-03 Training for Tomorrow Educational Aspects of Computerized Automation is a collection of papers that discusses the introduction of automated systems in all sectors of industry business and society The materials in the title particularly tackle the training concerns in the implementation of automated systems The issues addressed in the text include training in administrative automation development of operator training as an integrated part of the specification design and implementation of a process control system and training for the planning of large scale control systems. The selection also talks about the maintenance of professionals training course the feasibility of success in retraining non EDP college graduates for EDP occupations and the future of automation The book will be of great interest to individuals concerned with the implication of implementing automated systems in various sectors of industry business and society RoboCup 2003: Robot Soccer World

Cup VII Daniel Polani, Brett Browning, Andrea Bonarini, Kazuo Yoshida, 2004-09-02 This book constitutes the seventh official archival publication devoted to RoboCup It documents the achievements presented at the 7th Robot World Cup Soccer and Rescue Competition and Conferences held in Padua Italy in July 2003 The 39 revised full papers and 35 revised poster papers presented together with an overview and roadmap for the RoboCup initiative and 3 invited papers were carefully reviewed and selected from 125 symposium paper submissions This book is mandatory reading for the rapidly growing RoboCup community as well as a valuable source of reference and inspiration for R D professionals interested in robotics distributed artificial intelligence and multi agent systems Social Robotics Adriana Tapus, Elisabeth André, Jean-Claude Martin, François Ferland, Mehdi Ammi, 2015-10-27 This book constitutes the refereed proceedings of the 7th International Conference on Social Robotics ICSR 2015 held in Paris France in October 2015 The 70 revised full papers presented were carefully reviewed and selected from 126 submissions. The papers focus on the interaction between humans and robots and the integration of robots into our society and present innovative ideas and concepts new discoveries and improvements novel applications on the latest fundamental advances in the core technologies that form the backbone of social robotics distinguished developmental projects as well as seminal works in aesthetic design ethics and philosophy studies on social impact and influence pertaining to social robotics and its interaction and communication with human beings and its social Make: Sensors Tero Karvinen, Kimmo Karvinen, Ville Valtokari, 2014-05-06 Make Sensors is the impact on our society definitive introduction and guide to the sometimes tricky world of using sensors to monitor the physical world With dozens of projects and experiments for you to build this book shows you how to build sensor projects with both Arduino and Raspberry Pi Use Arduino when you need a low power low complexity brain for your sensor and choose Raspberry Pi when you need to perform additional processing using the Linux operating system running on that device You ll learn about touch sensors light sensors accelerometers gyroscopes magnetic sensors as well as temperature humidity and gas sensors A Hands-On Course in Sensors Using the Arduino and Raspberry Pi Volker Ziemann, 2018-02-19 A Hands On Course in Sensors using the Arduino and Raspberry Pi is the first book to give a practical and wide ranging account of how to interface sensors and actuators with micro controllers Raspberry Pi and other control systems The author describes the progression of raw signals through conditioning stages digitization data storage and presentation The collection processing and understanding of sensor data plays a central role in industrial and scientific activities This book builds simplified models of large industrial or scientific installations that contain hardware and other building blocks including services for databases web servers control systems and messaging brokers A range of case studies are included within the book including a weather station geophones a water colour monitor capacitance measurement the profile of laser beam and a remote controlled and fire seeking robot This book is suitable for advanced undergraduate and graduate students taking hands on laboratory courses in physics and engineering Hobbyists in robotics clubs and other enthusiasts will also find this book of interest Features

Includes practical hands on exercises that can be conducted in student labs or even at home Covers the latest software and hardware and all code featured in examples is discussed in detail All steps are illustrated with practical examples and case studies to enhance learning Robotics for Bioproduction Systems Naoshi Kondō, K. C. Ting, 1998 American Industrial Robot Conference, October 26-28, 1976, Rosemont, Illinois, 1976 **Seminars in Motor** Control Mark L. Latash, 2025 Mark L Latash approaches motor control as a biological discipline that requires the language of laws of nature sets of adequate concepts specific for biological movement and exploration using the scientific method developed in natural science Seminars in Motor Control introduces and develops the theory of the parametric control of movement with spatial referent coordinates a generalization of the equilibrium point hypothesis which is naturally compatible with the principle of abundance and the uncontrolled manifold hypothesis. The chapters discuss potential neurophysiological mechanisms involved in ensuring stability of functional movements and the relations among movement stability agility and optimality The author addresses issues such as posture movement paradox equifinality and its violations motor equivalence muscle coactivation multi muscle and intra muscle synergies unintentional drifts in performance kinesthetic perception changes in movements with fatigue aging motor learning neurological disorders and rehabilitation Consisting of five parts Seminars in Motor Control examines current research in a clear and accessible style ideal for graduate students postdoctoral fellows and faculty in such departments as kinesiology neuroscience physiology psychology 6th International Conference on CAD/CAM, Robotics, and Factories of the Future 1991 Hrishi and physical therapy Revisiting Wertheimer's Seminars Abraham S. Luchins, Edith Hirsch Luchins, 1978 There two volumes Bera, 1992 reconstruct the interdisciplinary seminars conducted by Max Wertheimer at the New School for Social Research during the Man-Machine-Environment System Engineering Shengzhao Long, Balbir S. Dhillon, 2020-09-28 vears 1936 to 1942 This book presents selected papers introducing readers to the key research topics and latest development trends in the theory and application of MMESE The advanced integrated research topic man machine environment system engineering MMESE was first established in China by Professor Shengzhao Long in 1981 with direct support from one of the greatest modern Chinese scientists Xuesen Qian In a letter to Shengzhao Long from October 22nd 1993 Xuesen Qian wrote You have created a very important modern science and technology in China MMESE primarily focuses on the relationship between man machine and environment studying the optimum combination of man machine environment systems where man refers to people in the workplace e g operators decision makers machine is the general name for any object controlled by man including tools machinery computers systems and technologies and environment describes the specific working conditions under which man and machine interact e g temperature noise vibration and hazardous gases The three goals of optimizing such systems are ensuring safety efficiency and economy Presenting interdisciplinary studies on the concepts and methods in physiology psychology system engineering computer science environmental science management education and other related

disciplines this book is a valuable resource for all researchers and professionals whose work involves MMESE subjects Robomatix Reporter .1987 **Everyday Technology for Independence and Care Mathijs Soede, Klaus** Miesenberger, 2011-08-15 Numbers of the elderly and people with disabilities in our society are growing Technological solutions have an increasingly important role in supporting this group of individuals in their daily life to ensure both independence and adequate care For this reason the 11th European Conference of the Association for the Advancement of Assistive Technology in Europe AAATE focuses on the following topic Everyday Technology for Independence and Care This volume publishes the proceedings of the 2011 AAATE conference exploring the relationship between care and technology monitoring technology public information systems on assistive technology in various European countries the socio economic outcomes of assistive technology and policy advanced technologies ICT and robotics various technological approaches to cognitive and visual impairments technology for mobility Design for All approaches technology from the user perspective and various aspects of service delivery The AAATE s mission is to stimulate the advancement of assistive technology for the benefit of people with disabilities including the elderly and to improve both the position of users of assistive technology in our society and the quality of care Intelligent Robotics and Applications Honghai Liu, Zhouping Yin, Lianging Liu, Li Jiang, Guoying Gu, Xinyu Wu, Weihong Ren, 2022-08-03 The 4 volume set LNAI 13455 13458 constitutes the proceedings of the 15th International Conference on Intelligent Robotics and Applications ICIRA 2022 which took place in Harbin China during August 2022 The 284 papers included in these proceedings were carefully reviewed and selected from 442 submissions They were organized in topical sections as follows Robotics Mechatronics Applications Robotic Machining Medical Engineering Soft and Hybrid Robots Human robot Collaboration Machine Intelligence and Human Robot Interaction **Education and Training in Robotics** Tom M. Husband, 1986

Whispering the Secrets of Language: An Mental Quest through Line Following Robot Seminar

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