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Dina Darwish



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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

Robotics in Education Norashikin M. Thamrin, Addie Irawan, Zurita Zulkifli, Syed Abdul Mutalib Al Junid, Megat Syahirul Amin Megat Ali, Anwar P.P. Abdul Majeed, 2025-11-06 This book investigates robotics role in transforming STEM education through critical thinking and interdisciplinary skill development Spanning six chapters it examines robotics ability to enhance technical and collaborative skills while addressing challenges such as resource accessibility and curriculum integration Core programming concepts including control systems algorithm design and debugging are elaborated upon using tools like Python and ROS Practical guidance encompasses the design of mechanical and electrical systems the integration of sensors e.g. ultrasonic IMUs and their application in real world scenarios Projects advance from basic movement programming to sophisticated AI driven tasks such as autonomous navigation and object recognition The AI section discusses machine learning path planning algorithms e.g. A search SLAM and classroom case studies Subsequent chapters examine new trends such as VR IoT and data driven assessment alongside robotics's global influence in education and career readiness strategies Aimed at educators and students this book combines theoretical frameworks with practical insights to prepare learners for

technological progress *Handbook of Research on Advancements in Robotics and Mechatronics* Habib, Maki K., 2014-12-31 The field of mechatronics integrates modern engineering science and technologies with new ways of thinking enhancing the design of products and manufacturing processes This synergy enables the creation and evolution of new intelligent human oriented machines The Handbook of Research on Advancements in Robotics and Mechatronics presents new findings practices technological innovations and theoretical perspectives on the the latest advancements in the field of mechanical engineering This book is of great use to engineers and scientists students researchers and practitioners looking to develop autonomous and smart products and systems for meeting today s challenges **Advances in Robots**

Technologies and Implementations Dina Darwish, In Czech the word robota means serf work which is where the name robot originates from a drama written by Karel apek in 1920 in which machines take control of the world is credited for popularizing the term robot However the rethinking of human life has always been something that mankind has been interested in Ever since the beginning of the 20th century there have been several attempts to rebuild a human person and there are stories that tell of those who have been successful before Paracelsus an alchemist who lived in the 16th century is credited with having one of the most well known theories He asserted that a miniature human like entity which he referred to as a homunculus could be made in a flask by doing nothing more than employing chemical processes In the latter part of the 16th century the term golem became well known to the general population In accordance with a traditional tale the golem was constructed out of clay and had the ability to provide assistance to anyone if a unique paper was put into either its mouth or its forehead According to the narrative the golem ultimately met its creator and eventually turned against him This occurred after some time had passed When one considers the history of robotics one discovers that there is a widespread interest in endowing robots with humanity or elements that are characteristic of humans In general there are primary criteria which are as follows The robot must be able to resemble a human being in some manner in terms of look thinking and personality for example The robot needs to be superior in some way that is it needs to be stronger smarter etc This means that the designer of the robot must have full control over the robot themselves When it came to the history of robotics a significant turning point occurred when robots that were more powerful than people were created It was about the year 1769 when the first industrial revolution began and it was around this time that machines began to supplant the human input to labor During that time period the primary objective was to increase the number of products as well as decrease the amount of time and money spent on manufacturing all without involving any human intervention At that point in time automation emerged as the most common notion Automation allows for the completion of several procedures without the need for any involvement from a human being People were forced to come up with new methods of working and living as a result of humans being replaced by robots Machines are able to operate around the clock because they do not experience fatigue in the same way that people do Automation led to a reduction in both the likelihood of making mistakes and the

quantity of waste produced In addition robots are distinguished by their regulated precision and their enhanced efficiency It was not possible to have access to computer technology in the 1800s Nevertheless mankind was able to construct gigantic machines that were capable of carrying out difficult jobs Following the year 1950 there has been a significant advancement in the field of robots The discovery of the moon's surface by the first mobile robot that was operated remotely which occurred around the year 1970 is another significant event in the history of robotics Later on in 1986 Honda initiated a project with the intention of developing humanoid robots that have a similar appearance to that of humans Robots began to appear in an increasing number of industries including healthcare manufacturing and logistics as the progress of the technology continued In spite of the fact that the development of robots is still in progress we can already find robots in our everyday life For example robots can be found in the household in the form of vacuum cleaners in the office in the form of assembly robots and in the medical field in the form of social robots in patient therapy or surgical robots This is the fourth industrial revolution that humanity is now experiencing This revolution is integrating the most cutting edge developing technologies such as robots internet of things fifth generation wireless networks artificial intelligence and many others in order to propel the industry to new heights There are several categories that may be applied to robots We will examine the following four primary approaches to classification Size Application domain Purpose Number of users per application When considering dimensions the following categories can be distinguished Nanorobots also known as nanobots are constructed out of nanomaterials and can range in size from 0.1 to 10 micrometers To give you an idea of how little these nanorobots are a human red blood cell is around 5-10 micrometers in size The notion of nanobots is now in the preliminary phases of study primarily it is being considered for its potential application in the medical field It will take many more years of laborious effort to make nanobots a viable answer Injecting nanorobots into the body of a patient in order to diagnose and treat illnesses is one of the potential applications of nanorobots Microrobots millibots and minibots are all examples of robots that are significantly bigger than nanobots These robots are already in existence Microbots millibots and minibots are correspondingly smaller than one millimeter one centimeter and ten centimeters RoboBee which has a wingspan of 1.2 centimeters and weighs 80 milligrams is the smallest flying robot that has ever been created A remote control can be used to operate the robot and its wings have the ability to flap 120 times per second The purpose of such a little apparatus is to create a flying swarm for the purpose of artificial pollination or search and rescue operations Robots that are little and medium sized these robots are often less than 100 centimeters small or almost the same size as a human being mid sized 100-200 centimeters This is the size of the majority of robots that are used in homes toys and social robots humanoids robots that have an appearance that is comparable to that of humans the Transformers from comic books and movies are a typical example and digital personal assistants The majority of the time whether in movies or in real life we encounter and interact with robots that are of both small and medium size Huge robots these machines are far larger than we are Some humanoid

robots are rather enormous reaching heights of up to eight to ten meters However humanoid big robots are often constructed for the aim of study or just for the goal of having fun As a matter of fact the majority of huge robots do not resemble people rather they are designed to automate various tasks such as manufacturing construction agriculture autonomous driving and navigation Robots may also be classified according to the application domain in which they are used with personal robots and industrial robots being the two categories that can be achieved Robots that are meant to be beneficial for individuals or families are employed in our everyday lives and are referred to as personal robots Personal robots can be operated by those who are not technically savvy to carry out duties that are repetitive and possibly monotonous in order to save time or to entertain us Among the various types of personal robots the most frequent types are social robots digital personal assistants toys and household robots Robots designed for use in manufacturing construction or agriculture for example are built to withstand harsh conditions and are designed to carry out certain duties in accordance with a predetermined set of instructions Assembly disassembly mounting screw tightening welding painting visual inspection and other applications are just some of the many uses for this tool There is one particular activity that industrial robots excel at and that is working as machines that are quick accurate and dependable We would not be able to achieve the degree of technical growth that we have today if it were not for industrial robots The function of robots is yet another classification that might be chosen Both particular and generic functions are possible for robots to do So what exactly does that imply Task specific robots these machines are designed to carry out a single task or a series of activities that might be performed independently Depending on the level of complexity it might be as straightforward as a robot arm that transports things from point A to point B or it could be as intricate as a social robot that has an advanced natural language interface The architecture and conduct of these robots cannot be altered they have predetermined programming that they follow in accordance with the purpose for which they were established These types of devices include industrial robots as well as robots used in households General purpose robots When it comes to general purpose robotics the task that the robot is supposed to perform is not predetermined There are a variety of components of the robots that can be purchased individually and these components may be joined in a variety of different ways in order to accomplish certain projects There is a possibility that the components will consist of robot arms wheels cameras step motors and more sensors and actuators Another possibility is that these robots are equipped with wireless connections such as Bluetooth and Wi Fi The brain of the robot which is often a tiny computer may be trained to carry out a variety of activities using a variety of components by utilizing specialized programs that are written in computer programming languages The Nvidia Jetson and Jetson Nano Raspberry Pi and Arduino are examples of popular programmable tiny computers which are often referred to as embedded systems Through the use of a common communication interface these embedded systems are equipped with general purpose input and output connectors often known as GPIOs These connections allow for the connecting of actuators and sensors There are also general purpose robots

that have a prebuilt body that is comprised of sensors such as cameras and microphones and actuators such as arms and legs. It is possible for the robot to carry out a variety of distinct duties thanks to the development of various computer programs. Among the robots that fall under this category are Softbank Robotics Nao, Pepper and Romeo as well as Spot the robot dog that Boston Dynamics has developed. In addition, robots can be classified according to the number of instances of each type. Single robots: a single robot accomplishes its tasks independently. It is responsible for carrying out a task in accordance with a predetermined program. It is possible that the established program may incorporate cutting edge technologies that will enable the robot to adjust to its surroundings. Additionally, the robot may be connected to the internet, yet the robot will still be operating independently. Due to the fact that they are unable to interact with one another even if there are many single robots in the same location, they are still considered to be alone. Swarm robots: robots are able to collaborate with one another in a group setting. Within the context of this scenario, a large number of simple robots are controlled and collaborate with one another. Despite the fact that the individual robots that comprise the swarm are not particularly useful, the swarm as a whole is capable of doing substantial tasks. Take for instance bees that are found in their natural habitat. If millions of bees were to collaborate in swarms, it is quite possible that they accomplish huge tasks. This is because a single bee is only capable of accomplishing a small amount of work. There is the possibility that swarm robots could be utilized in a wide range of sectors such as microbiology, surveillance, pollination as well as exploration and rescue. Despite this, the vast bulk of research on swarm robots is still being carried out at the time that this book is being presented. Nevertheless, an additional cause for concern arises whenever the degree of realism of robots is increased. Individuals are typically receptive to robots that are designed to mimic humans. In the same way that we identify industrial robots in the manufacturing industry, our brain is able to quickly categorize humanoid robots that resemble robots. This is similar to how we classified industrial robots. It is possible for individuals to suffer uncertainty and even frustration when they come into contact with a robot that is artificially lifelike. We are aware that it is a robot given the facts that have transpired. However, the brain is unable to deal with this reality since it seems to be so accurate. This is because the brain is unable to process the information. Despite the fact that its skin, movement and even voice are strikingly similar to those of a person, our brain has a difficult time recognizing it as a robot. This book provides a good beginning for people interested in knowing more information about robots and includes several chapters ranging from robots' main concepts, robots' functioning basics, advances in robotics technologies and implementations, robots in education and advanced topics in robotics.

Foundations of Robotics Damith Herath, David St-Onge, 2022-09-25. This open access book introduces key concepts in robotics in an easy-to-understand language using an engaging project-based approach. It covers contemporary topics in robotics, providing an accessible entry point to fundamentals in all the major domains. A section is dedicated to introducing programming concepts using Python, which has become a language of choice in robotics and AI. The book also introduces the reader to the Robot Operating System (ROS), the

ubiquitous software and algorithmic framework used by researchers and the industry The book provides an inspired up to date and multidisciplinary introduction to robotics in its many forms including emerging topics related to robotics on Machine Learning ethics Human Robot Interaction and Design Thinking The book also includes interviews with industry experts providing an additional layer of insight into the world of robotics The book is made open access through the generous support from Kinova Robotics The book is suitable as an undergraduate textbook in a relevant engineering course It is also suitable for students in art and design high school students and self learners who would like to explore foundational concepts in robotics This book provides the foundation for understanding how robots work It is the accessible introduction that artists and engineers have been waiting for Ken Goldberg William S Floyd Jr Distinguished Chair in Engineering UC Berkeley

STEM, Robotics, Mobile Apps in Early Childhood and Primary Education Stamatis Papadakis, Michail Kalogiannakis, 2022-04-21 This book brings together a collection of work from around the world in order to consider effective STEM robotics mobile apps education from a range of perspectives It presents valuable perspectives both practical and theoretical that enrich the current STEM robotics mobile apps education agenda As such the book makes a substantial contribution to the literature and outlines the key challenges in research policy and practice for STEM education from early childhood through to the first school age education The audience for the book includes college students teachers of young children college and university faculty and professionals from fields other than education who are unified by their commitment to the care and education of young children *Computational Principles of Mobile Robotics* Gregory Dudek, Michael Jenkin, 2010-07-26 An advanced undergraduate graduate text emphasizing computation and algorithms for locomotion sensing and reasoning in mobile robots Proceedings of the National Conference on Advanced Manufacturing & Robotics, January 10-11, 2004 S. N. Shome, Jhankar Basu, G. P. Sinha, 2004 Contributed papers presented at the conference held at Central Mechanical Engineering Research Institute Durgapur Surgical Robotics Serdar Küçük, 2018-01-04 Robotic technology has increasingly been preferred by the medical professionals since they have been used for several clinical applications Medical robots are preferred since they present better results compared to traditional methods such as smaller incision higher accuracy and lesser recovery time Medical robots can be divided into three progressive generations The first generation robots were originally industrial robots that had been modified for performing medical applications in orthopedics neurosurgery radiology and radiotherapy in the 1980s The second generation robots have been especially developed for executing surgical operations in the 1990s After the 2000s the third generation medical robots have been designed for performing difficult surgical and medical operations From the first approved surgical robot AESOP to the current da Vinci Surgical System there have been several different kinds of surgical robots produced until now Although the history of surgical robots is very short compared to the history of surgery thousands of surgical robots have been installed in hospitals worldwide and hundreds of thousands of people have been treated by these surgical robots Nowadays the achievements of

the surgical robotics amaze both medical professionals and the patients It is noteworthy to follow up on the evolution of surgical robotics in the future

Handbook of Research on K-12 Blended and Virtual Learning Through the i²Flex Classroom Model Avgerinou, Maria D.,Pelonis, Peggy,2021-03-05 Teaching models that focus on blended and virtual learning have become important during the past year and have become integral for the continuance of learning The i Flex classroom model a variation of blended learning allows non interactive teaching activities to take place without teachers direct involvement freeing up time for more meaningful teacher student and student student interactions There is evidence that i Flex leads to increased student engagement and motivation as well as better exploitation of teachers and classroom time leading to the development of higher order cognitive skills as well as study skills for students future needs related to citizenship college and careers The Handbook of Research on K 12 Blended and Virtual Learning Through the i Flex Classroom Model focuses not only on how to design deliver and evaluate courses but also on how to assess teacher performance in a blended i2Flex way at the K12 level The book will discuss the implementation of the i Flex isquareFlex a non traditional learning methodology which integrates internet based delivery of content and instruction with faculty guided student independent learning in combination with face to face classroom instruction aiming at developing higher order cognitive skills within a flexible learning design framework While highlighting new methods for improving the classroom and learning experience in addition to preparing students for higher education and careers this publication is an essential reference source for pre service and in service teachers researchers administrators educational technology developers and students interested in how the i2Flex model was implemented in classrooms and the effects of this learning model

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