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fiction/science-frontiers/building-better-robots/ • Robot Resources worksheet (attached) Prep Read Building Better Robots with the students, or assign it to them to read before class. Print a copy of the Robot Resources worksheet for each student. Directions There are many kinds of robots—and many ways to learn about them! Give each student a Robot Resources worksheet.

Building Better Robots

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Introduction. The idea of social robots has been inseparable from that of robots since its inception. In Karel ?apek's 1920 play "R.U.R. (Rossum's Universal Robots)," from which science and engineering inherited the term, the human-like artifacts called "robots" are artificial social agents that function as secretary, postman or factory workers (?apek, 1920/2004).

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Mountain Brook robots comes to life-SD.webmhd ...
Stanislaw Lem, The Cyberiad Social robotics is the science for developing and building robots that can be integrated into human groups, and are able to engage in complex social interactions with humans, including communication and collaboration (e.g., Fong et al., 2003; Dautenhahn, 2007).

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Each day, ants accomplish seemingly impossible feats. They cooperate to carry large objects, make decisions about where to live or collectively defend their nests without any kind of leadership or central control. How do they do it?Join ASU biology professor Stephen Pratt on an exploration of how ants use decentralized design to successfully carry out the tasks of daily

Nature@Noon: From Understanding Ants to Building Better Robots
Based in the National Centre for Nuclear Robotics at the University of Birmingham, Dr Ortenzi has worked with researchers from the Centre of Excellence for Robotic Vision at Queensland University of Technology, Australia; Scuola Superiore Sant'Anna, Italy; the German Aerospace Center (DLR), Germany; and the University of Pisa, Italy to deliver research that could herald a profound, but ...

Robotics - University of Birmingham
Bats use sound to map their environment. They emit sounds and their brains process the received echoes. Using this sense, which is called echolocation, bats succeed at one of the hardest problems in robotics—the need to move in an unfamiliar environment and map it. Many studies have tried explaining how bats do this, and we decided to build the Robat—a robot that navigates the world and ...

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Examines 12 of the most interesting facts about creating more adaptable and intelligent robots. Concise and understandable information is paired with colorful spreads full of photographs and sidebars.

Building a conscious robot is a scientific and technological challenge. Debates about the possibility of conscious robots and the related positive outcomes and hazards for human beings are today no longer confined to philosophical circles. Robot consciousness is a research field aimed at a two-part goal: on the one hand, scholars working in robot consciousness take inspiration from biological consciousness to build robots that present forms of experiential and functional consciousness. On the other hand, scholars employ robots as tools to better understand biological consciousness. Thus, part one of the goal concerns the replication of aspects of biological consciousness in robots, by unifying a variety of approaches from AI and robotics, cognitive robotics, epigenetic and affective robotics, situated and embodied robotics, developmental robotics, anticipatory systems, and biomimetic robotics. Part two of the goal is pursued by employing robots to advance and mark progress in the study of consciousness in humans and animals. Notably, neuroscientists involved in the study of consciousness do not exclude the possibility that robots may be conscious. This eBook comprises a collection of thirteen manuscripts and an Editorial published by Frontiers in Robotics and Artificial Intelligence, under the section Humanoid Robotics, and Frontiers in Neurorobotics, on the topic “Consciousness in Humanoid Robots.” This compendium aims at collating the most recent theoretical studies, models, and

case studies of machine consciousness that take the humanoid robot as a frame of reference. The content in the articles may be applied to many different kinds of robots, and to software agents as well.

This volume includes 15 papers from the National Academy of Engineering's 2006 U.S. Frontiers of Engineering (USFOE) Symposium held in September 2006. USFOE meetings bring together 100 outstanding engineers (ages 30 to 45) to exchange information about leading-edge technologies in a range of engineering fields. The 2006 symposium covered four topic areas: intelligent software systems and machines, the nano/bio interface, engineering personal mobility for the 21st century, and supply chain management. A paper by dinner speaker Dr. W. Dale Compton, Lillian M. Gilbreth Distinguished Professor of Industrial Engineering, Emeritus, is also included. The papers describe leading-edge research on commercializing auditory neuroscience, future developments in bionanotechnology, sustainable urban transportation, and managing disruptions to supply chains, among other topics. Appendixes include information about contributors, the symposium program, and a list of meeting participants. This is the twelfth volume in the USFOE series.

Join super scientist Max Axiom as he explores the technology behind and everyday use of robots in our world. Science and engineering content central to the STEM Initiative comes alive in full-color graphic novel format. Max's adventures make it all fun!

Join super scientist Max Axiom as he explores the technology behind and everyday use of robots in our world. Science and engineering content central to the STEM Initiative comes alive in full-color graphic novel format. Max's adventures make it all fun!

Take a journey into the New Space Frontier! It is easy to imagine that the space shuttle's retirement has edged the Space Age toward

closure, at least in terms of human flight beyond the bounds of earth. In fact, there are more people-carrying ships being constructed now than at any time since Yuri Gagarin became the first man in space half a century ago. Some are already servicing the International Space Station - which, incidentally, has ensured a permanent human presence in space for the last two decades, and is set to continue and expand for decades yet to come. What's more, NASA is no longer the only big player in the space game. Commercial, non-governmental space exploration is becoming a reality rather than just a pipe dream. What orbital adventures await us in the next five decades? Will humans ever again head into deep space, as the Apollo astronauts once did? NASA's new hardware is aimed toward asteroid missions, and ultimately, Mars, but there is a significant chance that a government funded space agency will not be the only - or even the first - organization to send humans across the solar system. Get ready to experience the excitement of adventure with New Space Frontier. Through gorgeous photography and engaging writing, noted space and science author Piers Bizony speculates beyond just today's hardware and explores what might be possible for the next generation.

A timely investigation into the forces that are driving innovation in the four core areas of human experience: birth, food, sex, and death. In Sex Robots & Vegan Meat, award-winning journalist and documentary-maker Jenny Kleeman takes us on a journey into the world of the people who are changing what it means to be human. Focusing on four central pillars of the human experience–birth, food, sex, and death—Kleeman examines the people who are driving some truly amazing (and perhaps worrying) innovations. We are on the brink of seismic changes in the ways we live and die, from babies grown in artificial wombs to lab-produced meat; from sex robots able to hold polite conversation (and otherwise) to being able to choose to end our days with the perfect, painless, automated death. Our journey from cradle to grave is developing in ways

which involve more and more technology, and less and less human interaction. Might these advances in technology serve to rob us of our humanity? In this book Jenny Kleeman takes a profound look at what the future might have in store—and asks some provocative questions along the way. Jenny Kleeman places these scientists front and center and asks what is driving and motivating them? Are they entrepreneurs in it for the greater good of human advancement, or might there be more sinister—i.e. monetary—motivations in play? Gleeman is a skilled and subtle interrogator and travels with the reader on a fascinating exploration of the changes afoot, their implications for who we are as a society—and as human beings. It's an immersive, eye-opening, and hugely entertaining journey into a world of extraordinary visionaries on the frontline of a social revolution.

Humanoid robots are highly sophisticated machines equipped with human-like sensory and motor capabilities. Today we are on the verge of a new era of rapid transformations in both science and engineering—one that brings together technological advancements in a way that will accelerate both neuroscience and robotics. Humanoid Robotics and Neuroscience: Science, Engineering and Society presents the contributions of prominent scientists who explore key aspects of the further potential of these systems. Topics include: Neuroscientific research findings on dexterous robotic hand control Humanoid vision and how understanding the structure of the human eye can lead to improvements in artificial vision Humanoid locomotion, motor control, and the learning of motor skills Cognitive elements of humanoid robots, including the neuroscientific aspects of imitation and development The impact of robots on society and the potential for developing new systems and devices to benefit humans The use of humanoid robotics can help us develop a greater scientific understanding of humans, leading to the design of better engineered systems and machines for society. This book assembles the work of scientists on the cutting edge of robotic

research who demonstrate the vast possibilities in this field of research.

This book provides insights into research in the field of artificial intelligence in combination with robotics technologies. The integration of artificial intelligence and robotic technologies is a highly topical area for researchers and developers from academia and industry around the globe, and it is likely that artificial intelligence will become the main approach for the next generation of robotics research. The tremendous number of artificial intelligence algorithms and big data solutions has significantly extended the range of potential applications for robotic technologies, and has also brought new challenges for the artificial intelligence community. Sharing recent advances in the field, the book features papers by young researchers presented at the 4th International Symposium on Artificial Intelligence and Robotics 2019 (ISAIR2019), held in Daegu, Korea, on August 20–24, 2019.