Literature Review Of Le Robots For Manufacturing

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Contextualized Affective Interactions with Robots - Myounghoon Jeon 2022-01-03

Occidental; an International Review of Books and Literature - 1949

The Handbook on Socially Interactive Agents - Birgit Lugrin 2022-10-19
The Handbook on Socially Interactive Agents provides a comprehensive overview of the research fields of Embodied Conversational Agents;Intelligent Virtual Agents;and Social Robotics. Socially Interactive Agents (SIAs);whether virtually or physically

embodied;are autonomous agents that are able to perceive an environment including people or other agents;reason;decide how to interact;and express attitudes such as emotions;engagement;or empathy. They are capable of interacting with people and one another in a socially intelligent manner using multimodal communicative behaviors;with the goal to support humans in various domains. Written by international experts in their respective fields;the book summarizes research in the many important research communities pertinent for SIAs;while discussing current challenges and future directions. The handbook provides easy access to modeling and studying SIAs for researchers and students;and aims at further bridging the gap between the research communities involved. In two volumes;the book clearly structures the vast body of research. The first volume starts by introducing what is involved in SIAs research;in particular research methodologies and ethical implications of developing SIAs. It further examines research on appearance and behavior;focusing on multimodality. Finally;social cognition for SIAs is investigated using different theoretical models and phenomena such as theory of mind or pro-sociality. The second volume starts with perspectives on interaction;examined from different angles such as interaction in social space;group interaction;or long-term interaction. It also includes an extensive overview summarizing research and systems of human–agent platforms and of some of the major application areas of SIAs such as education;aging support;autism;and games.

Computational Intelligence Methods for Green Technology and Sustainable Development - Yo-Ping Huang 2020-10-27

This book is a selected collection of 54 peer-reviewed original scientific research papers of the 5th International Conference on Green Technology and Sustainable Development (GTSD2020) organised in Vietnam in 2020. It

highlights the importance of sustainability as well as promotes up-to-date innovation and research for green development in technologies, economics and education among countries. The conference provides an international platform for researchers, practitioners, policymakers and entrepreneurs to present their advances, knowledge and experience on various interdisciplinary topics related to the theme of "Green technology and sustainable development in industrial revolution 4.0". The book is a valuable resource for researchers, analysts, engineers, practitioners and policymakers who are interested in the latest findings in artificial intelligence, cyber systems, robotics, green energy and power systems, mechanical and computational mechanic models and advanced civil engineering. This book has 05 sessions consisting of both theoretical and practical aspects, and numerical and experimental analyses in various engineering disciplines.

A Modern Guide To Labour and the Platform Economy - Drahokoupil, Jan 2021-10-12

Providing an insightful analysis of the key issues and significant trends relating to labour within the platform economy, this Modern Guide considers the existing comparative evidence covering all world regions. It also provides an in-depth look at digital labour platforms in their historical, economic and geographical contexts.

Advances in Manufacturing Technology XXXIII - Y. Jin 2019-08-22

The development and management of technologies and operations are key to the success of all types of manufacturing business. This book presents the proceedings of the 17th International Conference on Manufacturing Research (ICMR 2019), held in Belfast, UK, on 10 – 12 September 2019. ICMR has been the UK's main manufacturing research conference for 34 years and an international conference since 2003. It brings together researchers, academics and industrialists to share their

vision, knowledge and experience and discuss emerging trends and new challenges in manufacturing research. The conference theme of ICMR2019 was smart manufacturing, and the book includes the 82 papers presented at the conference (representing an acceptance rate of 69%). These have been divided into 13 parts, which cover topics ranging from robot automation and machining processes, additive manufacturing, composite manufacturing, design methods, to information management, quality control, production optimization and product lifecycle management. Providing an overview of current trends and developments, the book will be of interest to researchers and engineers in the relevant area of manufacturing processes, design and production management.

New Trends in Business Information Systems and Technology - Rolf Dornberger 2020-07-07

This book presents selected examples of digitalization in the age of digital change. It is divided into two sections: “Digital Innovation,” which features new technologies that stimulate and enable new business opportunities; and “Digital Business Transformation,” comprising business and management concepts that employ specific technological solutions for their practical implementation. Combining new insights from research, teaching and management, including digital transformation, e-business, knowledge representation, human-computer interaction, and business optimization, the book highlights the breadth of research as well as its meaningful and relevant transfer into practice. It is intended for academics seeking inspiration, as well as for leaders wanting to tap the potential of the latest trends to take society and their business to the next level.

Responsible Robotics: Identifying and Addressing Issues of Ethics, Fairness, Accountability, Transparency, Privacy and Employment - Martim Brandão 2022-07-18

Latest Developments in Medical Robotics

Systems - Serdar Küçük 2021-09-15
Medical robots are increasingly being used in the healthcare profession, particularly for surgical operations. Compared to traditional surgery techniques, robotic surgery results in smaller incisions, greater accuracy, and shortened recovery time. Medical robots can also be used to transport blood from one place to another, prepare substances in a hazardous environment, diagnose illnesses, care for patients, and more. As such, it is likely that robots will replace certain medical personnel in the future, leading to social consequences that are not yet fully understood. This book presents the latest developments in medical robotics and innovative designs of the future. It also examines current medical robotic systems and applications.
The Age of A.I. - Henry A. Kissinger 2021-09-14

Security-Related Advanced Technologies in Critical Infrastructure Protection - Tünde Anna Kovács 2022-09-05
This book collects the latest research results on security-related advanced technologies. The chapters contain relevant and interesting topics from numerous research. Data science and artificial intelligence research nowadays one of the most important topics for the industry and the security sectors. The autonomy and counter-autonomy research topic are also very interesting. Autonomous cars have become a part of the common days, but their safe and secure application is not assured. The research results in this field want to support and assure safe and secure autonomous applications in our quotidian life. Also, the safe and secure robotics in the industries and the defence assure a high standard of living and the given research results in this area can use to increase it. The researchers work on it and publish the results that can be interesting for the other researchers and the innovators, but also the industrial part members. The researchers work on it and

publish the results that can be interesting for the other researchers and the innovators, but also the industrial part members.
Communication is a part of our life, but the communication systems mesh all around the world. Communication is the basis of modern life because without it life stop. One other interesting and very important research area is the material sciences. Virtual life cannot exist without hardware and materials. The new technical applications require new materials, that can suffice the mechanical and physical, chemical properties demand. Nowadays a common requirement of the materials the high strength and lightweight. Researchers want to serve the industrial requests and innovate new composite materials or increase the properties of the material through a new technological process. The authors publish the latest results of the security-related research area including the newest innovations and technologies which rise the interest of the defence and the modern industries even the interest of other researchers.

Conceptual Modeling - Gillian Dobbie 2020-10-29

This book constitutes the refereed proceedings of the 39th International Conference on Conceptual Modeling, ER 2020, which was supposed to be held in Vienna, Austria, in November 2020, but the conference was held virtually due to the COVID-19 pandemic. The 28 full and 16 short papers were carefully reviewed and selected from 143 submissions. This events covers a wide range of topics, and the papers are organized in the following sessions: foundations of conceptual modeling; process mining and conceptual modeling; conceptual modeling of business rules and processes; modeling chatbots, narratives and natural language; ontology and conceptual modeling; applications of conceptual modeling; schema design, evolution, NoSQL; empirical studies of conceptual modeling; networks, graphs and conceptual modeling; and conceptual modeling

of complex and data-rich systems.

Research in Intelligent and Computing in Engineering - Raghvendra Kumar 2021

This book comprises select peer-reviewed proceedings of the international conference on Research in Intelligent and Computing in Engineering (RICE 2020) held at Thu Dau Mot University, Vietnam. The volume primarily focuses on latest research and advances in various computing models such as centralized, distributed, cluster, grid, and cloud computing. Practical examples and real-life applications of wireless sensor networks, mobile ad hoc networks, and internet of things, data mining and machine learning are also covered in the book. The contents aim to enable researchers and professionals to tackle the rapidly growing needs of network applications and the various complexities associated with them.

HCI International 2022 - Late Breaking Papers. Multimodality in Advanced Interaction Environments - Masaaki Kurosu 2022-10-01

Volume LNCS 13519 is part of the refereed proceedings of the 24th International Conference on Human-Computer Interaction, HCII 2022, which was held virtually during June 26 to July 1, 2022. A total of 5583 individuals from academia, research institutes, industry, and governmental agencies from 88 countries submitted contributions, and 1276 papers and 275 posters were included in the proceedings that were published just before the start of the conference. Additionally, 296 papers and 181 posters are included in the volumes of the proceedings published after the conference, as "Late Breaking Work" (papers and posters). The contributions thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas.

Human Systems Engineering and Design (IHSED 2021): Future Trends and Applications - Waldemar Karwowski, Tareq

Ahram, Mario Milicevic, Darko Etinger and Krunoslav Zubrinic 2021-09-25

Proceedings of the 4th International Conference on Human Systems Engineering and Design (IHSED2021): Future Trends and Applications, September 23–25, 2021, University of Dubrovnik, Croatia

The Routledge Handbook of the Gig Economy - Immanuel Ness 2022-10-31

Research on the growth of the precarious economy is of signifi cant interest as the economy increasingly becomes dependent on gig work. However, as platform and automated service work has grown, there remains a chasm in understanding the key aspects of digital labour. This handbook presents comprehensive theoretical, empirical, and historical accounts of the political economy of informal work from the late 20th century to the present. It examines the rich and varied analysis and critique of the informalisation of work, focusing on its most signifi cant theories, intellectual traditions, and authors. It highlights the political, social, cultural, and developmental impact of the deterioration of employment in the Global North and Global South, as well as the extreme threat posed to the planet by the growth of contingent work, poverty, and enduring and increasing inequalities produced and reproduced by the reformation of capitalism in the contemporary age of neoliberal capitalism. The period from the 1980s to the present is marked by the expanded extraction of surplus value from workers through the creation of non-standard jobs and the restructuring of work. A central component of the restructuring of work is the extension of gig employment through the development of algorithmic platforms which direct labourers to perform discrete tasks. This is a definitive collection, representing the primary reference work, contributing to our understanding of the subject. The book is written and presented in a clear manner, accessible to scholars and researchers of international political economy,

labour economics, and sociology who are eager for new research examining this phenomenon, as well as specialists in the field of labour relations. Chapter 11 of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license available at http://www.taylorfrancis.com.

The Fourth Industrial Revolution: Implementation of Artificial Intelligence for Growing Business Success - Allam Hamdan 2021-04-11

This book focuses on the implementation of AI for growing business, and the book includes research articles and expository papers on the applications of AI on decision-making, health care, smart universities, public sector and digital government, FinTech, and RegTech. Artificial Intelligence (AI) is a vital and a fundamental driver for the Fourth Industrial Revolution (FIR). Its influence is observed at homes, in the businesses and in the public spaces. The embodied best of AI reflects robots which drive our cars, stock our warehouses, monitor our behaviors and warn us of our health, and care for our young children. Some researchers also discussed the role of AI in the current COVID-19 pandemic, whether in the health sector, education, and others. On all of these, the researchers discussed the impact of AI on decision-making in those vital sectors of the economy.

Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications - Luis Alvarez 2012-08-11

This book constitutes the refereed proceedings of the 17th Iberoamerican Congress on Pattern Recognition, CIARP 2012, held in Buenos Aires, Argentina, in September 2012. The 109 papers presented, among them two tutorials and four keynotes, were carefully reviewed and selected from various submissions. The papers are organized in topical sections on face and iris: detection and recognition; clustering; fuzzy

methods; human actions and gestures; graphs; image processing and analysis; shape and texture; learning, mining and neural networks; medical images; robotics, stereo vision and real time; remote sensing; signal processing; speech and handwriting analysis; statistical pattern recognition; theoretical pattern recognition; and video analysis.

Just Ordinary Robots - Lamber Royakkers 2015-08-28

A social robot is a robot that interacts and communicates with humans or other autonomous physical agents by following social behaviors and rules attached to its role. We seem to accept the use of robots that perform dull, dirty, and dangerous jobs. But how far do we want to go with the automation of care for children and the elderly, or the killin

The Changing Face of Epilepsy Surgery: Contributions of Computational Neuroscience and Robotics to the Field - Jorge Alvaro Gonzalez-Martinez 2022-02-09

Topic Editor Prof. Jorge Alvaro Gonzalez-Martinez has received a consulting grant from Zimmer Biomet. Prof. Stéphan Chabardès has also worked as a consultant for Zimmer Biomet. Prof. Chauvel has declared no competing interests with regards to the Research Topic subject.

ROBOT2013: First Iberian Robotics Conference - Manuel A. Armada 2013-11-12

The interest in robotics has remarkably augmented over recent years. Novel solutions for complex and very diverse application fields (exploration/intervention in severe environments, assistive, social, personal services, emergency rescue operations, transportation, entertainment, unmanned aerial vehicles, medical, etc.), has been anticipated by means of a large progress in this area of robotics. Moreover, the amalgamation of original ideas and related innovations, the search for new potential applications and the use of state of the art supporting technologies permit to

foresee an important step forward and a significant socio-economic impact of advanced robot technology in the forthcoming years. In response to the technical challenges in the development of these sophisticated machines, a significant research and development effort has yet to be undertaken. It concerns embedded technologies (for power sources, actuators, sensors, information systems), new design methods, adapted control techniques for highly redundant systems, as well as operational and decisional autonomy and human/robot co-existence. This book contains the proceedings of the ROBOT 2013: FIRST IBERIAN ROBOTICS CONFERENCE and it can be said that included both state of the art and more practical presentations dealing with implementation problems, support technologies and future applications. A growing interest in Assistive Robotics, Agricultural Robotics, Field Robotics, Grasping and Dexterous Manipulation, Humanoid Robots, Intelligent Systems and Robotics, Marine Robotics, has been demonstrated by the very relevant number of contributions. Moreover, ROBOT2013 incorporates a special session on Legal and Ethical Aspects in Robotics that is becoming a topic of key relevance. This Conference will be held in Madrid (28-29 November 2013), organised by the Sociedad Española para la Investigación y Desarrollo en Robótica (SEIDROB) and by the Centre for Automation and Robotics - CAR (Universidad Politécnica de Madrid (UPM) and Consejo Superior de Investigaciones Científicas (CSIC)), along with the co-operation of Grupo Temático de Robótica CEA-GTRob, Sociedade Portuguesa de Robotica (SPR), and Asociación Española de Promoción de la Investigación en Agentes Físicos (RedAF).

Design and Operation of Human Locomotion Systems - Marco Cecarelli 2019-09-10

Design and Operation of Locomotion Systems examines recent advances in locomotion systems with multidisciplinary viewpoints, including

mechanical design, biomechanics, control and computer science. In particular, the book addresses the specifications and requirements needed to achieve the proper design of locomotion systems. The book provides insights on the gait analysis of humans by considering image capture systems. It also studies human locomotion from a rehabilitation viewpoint and outlines the design and operation of exoskeletons, both for rehabilitation and human performance enhancement tasks. Additionally, the book content ranges from fundamental theory and mathematical formulations, to practical implementations and experimental testing procedures. Written and contributed by leading experts in robotics and locomotion systems Addresses humanoid locomotion from both design and control viewpoints Discusses the design and control of multi-legged locomotion systems

Robotic Assisted Laparoscopic Surgery (RALS) in Pediatric Urology - Miguel Alfedo Castellan 2020-04-24

Social Robotics - Haizhou Li 2010-11-02

The papers in this volume were the fruitful scientific results of the Second International Conference on Social Robotics (ICSR), held during November 23–24, 2010 in Singapore, which was jointly organized by the Social Robotics Laboratory (SRL), Interactive Digital Media Institute (IDMI), the National University of Singapore and 2 Human Language Technology Department, the Institute for Infocomm Research (I R), A*STAR, Singapore. These papers address a range of topics in social robotics and its applications. We received paper submissions from America, Asia, and Europe. All the papers were reviewed by at least three referees from the 32-member Program Committee who were assembled from the global community of social robotics researchers. This v-ume contains the 42 papers that were selected to report on the latest developments and studies

of social robotics in the areas of human––robot interaction; affective and cognitive sciences for interactive robots; design philosophies and software archit- tures for robots; learning, adaptation and evolution of robotic intelligence; and mec- tronics and intelligent control.

Research Handbook on Development and the Informal Economy - Jacques Charmes 2020-09-25

This Research Handbook on Development and the Informal Economy captures the magnitude of the informal economy for the global labour force. It unravels numerous concepts, definitions and methods of data collection to offer valuable insight into the differences between the informal, non-observed and shadow economies.

Industry 4.0 Vision for the Supply of Energy and Materials - Mahdi Sharifzadeh 2022-05-11

Industry 4.0 Vision for the Supply of Energy and Materials Explore the impact of Industry 4.0 technologies on the supply chain with this authoritative text written by a leader in his field In Industry 4.0 Vision for the Supply of Energy and Materials, distinguished researcher and editor, Dr. Mahdi Sharifzadeh, delivers thematic, analytic, and applied discussions of the Industry 4.0 vision for supply chain design and operation. The book compiles all current aspects and emerging notions of Industry 4.0 into clusters of “enablers” and “analytics” of Supply Chain 4.0. Their multifaceted and highly interconnected nature is discussed at length, as are their diverse range of applications. You will discover uses of these new technologies ranging from the supply of conventional energy networks to renewables, pharmaceuticals, and additive manufacturing. You will also learn about their implications for economic prosperity and environmental sustainability. For each sector, this book scrutinizes current industrial practice and discusses developing concepts. Finally, the book concludes with potential future research directions of interest to industry practitioners and academics alike. Readers will also benefit

from the inclusion of: A thorough introduction to connectivity through wireless communications and remote sensors An exploration of blockchains and smart contracts, as well as robotics and automation and cloud computing Practical discussions of supply chain analytics, including big data, machine-learning, and artificial intelligence, as well as supply chain modeling, optimization, and control A concise treatment of Industry 4.0 applications in supply chain design and operation, including the circular economy and the power industry An analysis of the oil, gas, and petrochemical industry, the pharmaceutical industry, and additive manufacturing Perfect for PhD-level and Postdoctoral researchers and industrial researchers, Industry 4.0 Vision for the Supply of Energy and Materials will also earn a place in the libraries of working professionals with an interest in the quantitative analysis of Supply Chain 4.0 concepts and techniques.

Trust in Human-Robot Interaction - Chang S. Nam 2020-11-17

Trust in Human-Robot Interaction addresses the gamut of factors that influence trust of robotic systems. The book presents the theory, fundamentals, techniques and diverse applications of the behavioral, cognitive and neural mechanisms of trust in human-robot interaction, covering topics like individual differences, transparency, communication, physical design, privacy and ethics. Presents a repository of the open questions and challenges in trust in HRI Includes contributions from many disciplines participating in HRI research, including psychology, neuroscience, sociology, engineering and computer science Examines human information processing as a foundation for understanding HRI Details the methods and techniques used to test and quantify trust in HRI

Advances in Mechanism and Machine Science - Tadeusz Uhl 2019-06-13

This book gathers the proceedings of the 15th IFToMM World Congress, which was held in

Krakow, Poland, from June 30 to July 4, 2019. Having been organized every four years since 1965, the Congress represents the world's largest scientific event on mechanism and machine science (MMS). The contributions cover an extremely diverse range of topics, including biomechanical engineering, computational kinematics, design methodologies, dynamics of machinery, multibody dynamics, gearing and transmissions, history of MMS, linkage and mechanical controls, robotics and mechatronics, micro-mechanisms, reliability of machines and mechanisms, rotor dynamics, standardization of terminology, sustainable energy systems, transportation machinery, tribology and vibration. Selected by means of a rigorous international peer-review process, they highlight numerous exciting advances and ideas that will spur novel research directions and foster new multidisciplinary collaborations.

Robotics, Autonomous Systems and AI for Nonurgent/Nonemergent Healthcare Delivery During and After the COVID-19 Pandemic - Mahdi Tavakoli 2022-07-01

From Additive Manufacturing to 3D/4D Printing 1 - Jean-Claude André 2017-10-30

In 1984, additive manufacturing represented a new methodology for manipulating matter, consisting of harnessing materials and/or energy to create three-dimensional physical objects. Today, additive manufacturing technologies represent a market of around 5 billion euros per year, with an annual growth between 20 and 30%. Different processes, materials and dimensions (from nanometer to decameter) within additive manufacturing techniques have led to 70,000 publications on this topic and to several thousand patents with applications as wide-ranging as domestic uses. Volume 1 of this series of books presents these different technologies with illustrative industrial examples. In addition to the strengths of 3D methods, this book also covers their weaknesses

and the developments envisaged in terms of incremental innovations to overcome them.

Advances in Human Factors in Robots and Unmanned Systems - Jessie Chen 2018-06-23

This book focuses on the importance of human factors in the development of safe and reliable unmanned systems. It discusses current challenges such as how to improve the perceptual and cognitive abilities of robots, develop suitable synthetic vision systems, cope with degraded reliability in unmanned systems, predict robotic behavior in case of a loss of communication, the vision for future soldier–robot teams, human–agent teaming, real-world implications for human–robot interaction, and approaches to standardize both the display and control of technologies across unmanned systems. Based on the AHFE 2018 International Conference on Human Factors in Robots and Unmanned Systems, held on July 21–25, 2018, in Orlando, Florida, USA, this book fosters new discussions and stimulates new advances in the development of more reliable, safer, and highly functional devices for carrying out automated and concurrent tasks.

Logistics 4.0 and Future of Supply Chains - İsmail İyigün 2021-11-14

This book provides a detailed theoretical background of Logistics 4.0 using real-world examples and case studies and proposes a methodological framework to understand the technological revolutions happening in the present day from the perspective of logistics management. With the fourth industrial revolution, new technologies, such as artificial intelligence, cloud computing, 3D printers and the Internet of Things started to take greater prominence in the world of business. One of the sectors most affected by changes brought on by this Industry 4.0 is logistics, which has given rise to the concept of Logistics 4.0. Covering a wide range of topics on Logistics 4.0, such as warehousing, big data, 3D printing, robotics and cloud computing, this book would be a valuable

read for those involved in logistics management, academics and students in the areas of supply chain management, logistics, industry 4, and big data. .

Advances in Robot Kinematics - Jadran Lenarčič 2014-05-19

The topics addressed in this book cover the whole range of kinematic analysis, synthesis and design and consider robotic systems possessing serial, parallel and cable driven mechanisms. The robotic systems range from being less than fully mobile to kinematically redundant to over constrained. The fifty-six contributions report the latest results in robot kinematics with emphasis on emerging areas such as design and control of humanoids or humanoid subsystems. The book is of interest to researchers wanting to bring their knowledge up to date regarding modern topics in one of the basic disciplines in robotics, which relates to the essential property of robots, the motion of mechanisms.

Human-Robot Interaction - Céline Jost 2020-05-13

This book offers the first comprehensive yet critical overview of methods used to evaluate interaction between humans and social robots. It reviews commonly used evaluation methods, and shows that they are not always suitable for this purpose. Using representative case studies, the book identifies good and bad practices for evaluating human-robot interactions and proposes new standardized processes as well as recommendations, carefully developed on the basis of intensive discussions between specialists in various HRI-related disciplines, e.g. psychology, ethology, ergonomics, sociology, ethnography, robotics, and computer science. The book is the result of a close, long-standing collaboration between the editors and the invited contributors, including, but not limited to, their inspiring discussions at the workshop on Evaluation Methods Standardization for Human-Robot Interaction (EMSHRI), which have been organized yearly since 2015. By

highlighting and weighing good and bad practices in evaluation design for HRI, the book will stimulate the scientific community to search for better solutions, take advantages of interdisciplinary collaborations, and encourage the development of new standards to accommodate the growing presence of robots in the day-to-day and social lives of human beings.

The Digital Supply Chain - Bart L. MacCarthy 2022-06-24

The Digital Supply Chain is a thorough investigation of the underpinning technologies, systems, platforms and models that enable the design, management, and control of digitally connected supply chains. The book examines the origin, emergence and building blocks of the Digital Supply Chain, showing how and where the virtual and physical supply chain worlds interact. It reviews the enabling technologies that underpin digitally controlled supply chains and examines how the discipline of supply chain management is affected by enhanced digital connectivity, discussing purchasing and procurement, supply chain traceability, performance management, and supply chain cyber security. The book provides a rich set of cases on current digital practices and challenges across a range of industrial and business sectors including the retail, textiles and clothing, the automotive industry, food, shipping and international logistics, and SMEs. It concludes with research frontiers, discussing network science for supply chain analysis, challenges in Blockchain applications and in digital supply chain surveillance, as well as the need to re-conceptualize supply chain strategies for digitally transformed supply chains. Covers both theoretical and practical points-of-view Contains material that readers from different backgrounds and disciplines will find informative Examines digital practices and challenges in-depth across a wide range of sectors Provides up-to-date, critical insights on the design, management and control of digitally connected

supply chains Written by experts with strong backgrounds in the field

RiTA 2020 - Esyin Chew 2021-09-05

This book gathers the Proceedings of the 8th International Conference on Robot Intelligence Technology and Applications (RITA 2020). The areas covered include: Instrumentation and Control, Automation, Autonomous Systems, Biomechatronics and Rehabilitation Engineering, Intelligent Systems, Machine Learning, Mobile Robotics, Social Robotics and Humanoid Robotics, Sensors and Actuators, and Machine Vision, as well as Signal and Image Processing. As a valuable asset, the book offers researchers and practitioners a timely overview of the latest advances in robot intelligence technology and its applications.

Living with Robots - Richard Pak 2019-11-30

Living with Robots: Emerging Issues on the Psychological and Social Implications of Robotics focuses on the issues that come to bear when humans interact and collaborate with robots. The book dives deeply into critical factors that impact how individuals interact with robots at home, work and play. It includes topics ranging from robot anthropomorphic design, degree of autonomy, trust, individual differences and machine learning. While other books focus on engineering capabilities or the highly conceptual, philosophical issues of human-robot interaction, this resource tackles the human elements at play in these interactions, which are essential if humans and robots are to coexist and collaborate effectively. Authored by key psychology robotics researchers, the book limits its focus to specifically those robots who are intended to interact with people, including technology such as drones, self-driving cars, and humanoid robots. Forward-looking, the book examines robots not as the novelty they used to be, but rather the practical idea of robots participating in our everyday lives. Explores how individual differences in cognitive abilities and personality influence human-robot interaction

Examines the human response to robot autonomy Includes tools and methods for the measurement of social emotion with robots Delves into a broad range of domains - military, caregiving, toys, surgery, and more Anticipates the issues we will encountering with robots in the next ten years Foreword by Maggie Jackson

Occupational and Environmental Safety and Health III - Pedro M. Arezes 2021-11-12

This book gathers cutting-edge research and best practices relating to occupational risk and safety management, healthcare and ergonomics. It covers strategies for different types of industry, such as construction, food, chemical and healthcare. It gives a special emphasis on challenges posed by automation, discussing solutions offered by technologies, and reporting on case studies carried out in different countries. Chapters are based on selected contributions to the 17th International Symposium on Occupational Safety and Hygiene (SHO 2021), held virtually on November 17–19, 2021, from Portugal. By reporting on different perspectives, such as the ones from managers, workers and OSH professionals, and covering timely issues, such as safety evaluation of human-robot collaboration, this book offers extensive information and a source of inspiration to OSH researchers, practitioners and organizations operating in both local and global contexts.

Robotic Surgery, An Issue of Surgical Clinics - Julio A. Teixeira 2020-03-12

This issue of Surgical Clinics of North America focuses on Robotic Surgery, and is edited by Dr. Julio Teixeira. Articles will include: History of Computer-assisted Surgery; Robotic Cardiac Surgery; Robotic Thoracic Surgery; Robotic Foregut Surgery; Robotic Liver Resection; Robotic Cholecystectomy; Robotic Pancreatic and Solid Surgery; Robotic Colorectal Surgery; Robotic Urology Surgery; Robotic Ventral Hernia Surgery; Robotic Inguinal Hernia Surgery; Robotic Bariatric Surgery; Robotic Pediatric

Surgery; Robotic Gynecological Surgery; Complications of Robotic Surgery; and more!

Canadian Literature Index - 1987