

Iso 8373

Mobile communication has dramatically changed over the past decade with the diffusion of smartphones. Unlike the basic 2G mobile phones, which "merely" facilitated communication between individuals on the move, smartphones allow individuals to communicate, to entertain and inform themselves, to transact, to navigate, to take photos, and countless other things. Mobile communication has thus transformed society by allowing new forms of coordination, communication, consumption, social interaction, and access to news/entertainment. All of this is regardless of the space in which users are immersed. Set in the context of the developed and the developing world, *The Oxford Handbook of Mobile Communication and Society* updates current scholarship surrounding mobile media and communication. The 43 chapters in this handbook examine mobile communication and its evolving impact on individuals, institutions, groups, societies, and businesses. Contributors examine the communal benefits, social consequences, theoretical perspectives, organizational potential, and future consequences of mobile communication. Topics covered include, among many other things, trends in the Global South, location-based services, and the "appification" of mobile communication and society. The lives of people with disabilities are complex and various, and there are many situations where technology - particularly assistive technology - already makes a real difference. It is clear that smart phone and tablet computer based solutions continue to enhance the independence of many users, but it is also important that more traditional assistive technologies and services are not forgotten or neglected. This book presents the proceedings of the 14th conference of the Association for the Advancement of Assistive Technology in Europe (AAATE 2017) entitled: ' Harnessing the power of technology to improve lives ', held in Sheffield, UK, in September 2017. This 4-day event about assistive technologies (AT) highlights the association ' s interest in innovating not only technology, but also services, and addresses the global challenge of meeting the needs of the increasing number of people who could benefit from assistive technology. The 200+ papers in the book are grouped under 30 subject headings, and include contributions on a wide range of topical subjects, including aging well and dementia; care robotics; eHealth and apps; innovations; universal design; sport; and disordered speech. The breadth of the AAATE conference reflects people ' s life needs and so the book is sure to contain something of interest to all those whose work involves the design, development and use of assistive technology, whatever the situation. The photo on the front cover illustrates the breadth of assistive technologies that can improve lives. Photographer: Simon Butler.

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

Do you have specific tactics to survive this era of digital transformation? How can a firm extract powerful insights from responding to and implementing new-age technologies? Some companies adapt. Others miss the boat. Knowledge of what technology to employ, how to employ it, when and why it should be employed is a must in this era. *Intelligent Marketing* emphasizes organizing resources, developing capabilities and designing strategies for deploying new-age technologies to ensure a healthy financial outcome for all the key stakeholders, and a better quality of life for the society and community.

Algorithms and Law

Theory and Cases

Concepts and Applications

ISO 8373

Robot Law

The Oxford Handbook of Mobile Communication and Society

This book presents the latest research advances in the theory, design, control, and application of robot systems intended for a variety of purposes such as manipulation, manufacturing, automation, surgery, locomotion, and biomechanics. Several chapters deal with fundamental kinematics in nature, including synthesis, calibration, redundancy, force control, dexterity, inverse and forward kinematics, kinematic singularities, and over-constrained systems. This book is a compilation of the extended versions of the very best papers selected from the many that were presented at the Asian Conference on Computer-Aided Surgery held September 16–18, 2013, in Tokyo, Japan (ACCAS 2013). Using a combination of theoretical discussion and real-world case studies, this book focuses on current and future use of RAISA technologies in the tourism economy, including examples from the hotel, restaurant, travel agency, museum, and events industries.

Human-Robot Interaction: Safety, Standardization, and Benchmarking provides a comprehensive introduction to the new scenarios emerging where humans and robots interact in various environments and applications on a daily basis. The focus is on the current status and foreseeable implications of robot safety, approaching these issues from the standardization and benchmarking perspectives. Featuring contributions from leading experts, the book presents state-of-the-art research, and includes real-world applications and use cases. It explores the key leading sectors—robotics, service robotics, and medical robotics—and elaborates on the safety approaches that are being developed for effective human-robot interaction, including physical robot-human contacts, collaboration in task execution, workspace sharing, human-aware motion planning, and exploring the landscape of relevant standards and guidelines. Features Presenting a comprehensive introduction to human-robot interaction in a number of domains, including industrial robotics, medical robotics, and service robotics Focusing on robot safety standards and benchmarking Providing insight into current developments in international standards Featuring contributions from leading experts, actively pursuing new robot development

Fruit d ' une étroite collaboration entre la recherche universitaire et le monde de l ' industrie, cet ouvrage traite de la robotique industrielle, et tout particulièrement de

l' étalonnage des robots manipulateurs. Il développe les aspects suivants : la représentation des structures des robots manipulateurs sériels et parallèles ; les principes généraux de l' étalonnage ; les méthodes d' étalonnage spécifiques aux robots sériels et parallèles ; l' innovation en robotique, ses réussites et ses échecs. Théorique et pragmatique, il s' adresse aux étudiants et aux chercheurs, aux techniciens et aux ingénieurs et à tous ceux qui désirent appréhender la robotique industrielle. Patrick Maurine est maître de conférences à l' INSA de Rennes. Ses travaux portent sur la précision et l' étalonnage des robots manipulateurs industriels. Jean-François Quinet est consultant en robotique appliquée à l' ensemble de l' industrie internationale depuis 1973. Ses activités portent aussi sur la mesure tridimensionnelle statique et dynamique.

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Social Robots: Technological, Societal and Ethical Aspects of Human-Robot Interaction

Customer Expectations and Customer Responses

YY/T 1712-2021: Translated English of Chinese Standard. (YYT 1712-2021, YY/T1712-2021, YYT1712-2021)

Proceedings of the Eleventh International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machines, Coimbra, Portugal, 8-10 September 2008

Human-Robot Interaction

This volume highlights the interaction between public policy and innovation. The first chapter documents the dramatic globalization of R&D and how this development has affected the efforts of U.S. multinationals to operate on the global technology frontier. The next chapter synthesizes research on the impact of trade shocks on innovation and explains how these shocks' effects depend on the firms, industries, and countries affected. The third chapter examines the Advanced Research Projects Agency (ARPA) model of research management—an approach to funding and managing high-risk R&D—and offers a method for diagnosing which research efforts are “ ARPA-able. ” Next is a study of the Orphan Drug Act and the key changes in the U.S. healthcare landscape and in drug discovery and development since its passage in 1983. The next two chapters focus on artificial intelligence (AI). One describes how AI diffuses through the economy and discusses implications for economic inequality, antitrust, and intellectual property. The other investigates issues surrounding firm competition and labor force participation, such as data portability and a Universal Basic Income, and evaluates ways to address these issues.

Exploring issues from big-data to robotics, this volume is the first to comprehensively examine the regulatory implications of AI technology.

The integration of robotic systems and artificial intelligence into healthcare settings is accelerating. As these technological developments interact socially with children, the elderly, or the disabled, they may raise concerns besides mere physical safety; concerns that include data protection, inappropriate use of emotions, invasion of privacy, autonomy suppression, decrease in human interaction, and cognitive safety. Given the novelty of these technologies and the uncertainties surrounding the impact of care automation, it is unclear how the law should respond. This book investigates the legal and regulatory implications of the growing use of personal care robots for healthcare purposes. It explores the interplay between various aspects of the law, including safety, data protection, responsibility, transparency, autonomy, and dignity; and it examines different robotic and AI systems, such as social therapy robots, physical assistant robots for rehabilitation, and wheeled passenger carriers. Highlighting specific problems and challenges in regulating complex cyber-physical systems in concrete healthcare applications, it critically assesses the adequacy of current industry standards and emerging regulatory initiatives for robots and AI. After analyzing the potential legal and ethical issues associated with personal care robots, it concludes that the primarily principle-based approach of recent law and robotics studies is too abstract to be as effective as required by the personal care context. Instead, it recommends bridging the gap between general legal principles and their applicability in concrete robotic and AI technologies with a risk-based approach using impact assessments. As the first book to compile both legal and regulatory aspects of personal care robots, this book will be a valuable addition to the literature on robotics, artificial intelligence, human – robot interaction, law, and philosophy of technology.

Social robots not only work with humans in collaborative workspaces – we meet them in shopping malls and even more personal settings like health and care. Does this imply they should become more human, able to interpret and adequately respond to human emotions? Do we want them to help elderly people? Do we want them to support us when we are old ourselves? Do we want them to just clean and keep things orderly – or would we accept them helping us to go to the toilet, or even feed us if we suffer from Parkinson' s disease? The answers to these questions differ from person to person. They depend on cultural background, personal experiences – but probably most of all on the robot in question. This book covers the phenomenon of social robots from the historic roots to today' s best practices and future perspectives. To achieve this, we used a hands-on, interdisciplinary approach, incorporating findings from computer scientists, engineers, designers, psychologists, doctors, nurses, historians and many more. The book also covers a vast spectrum of applications, from collaborative industrial work over education to sales. Especially for developments with a high societal impact like robots in health and care settings, the authors discuss not only technology, design and usage but also ethical aspects. Thus this book creates both a compendium and a guideline, helping to navigate the design space for future developments in social robotics.

Employing New-Age Technologies.

BS ISO 8373. Robotics. Vocabulary

Harnessing the Power of Technology to Improve Lives

Tourism and Intercultural Communication and Innovations

Automation from Love to War

Advances in Service and Industrial Robotics

The term “mechatronics” was coined in 1969, merging “mecha” from mechanism and “tronics” from electronics, to reflect the original idea at the basis of this discipline, that is, the integration of electrical and mechanical systems into a single device. The spread of this term, and of mechatronics itself, has been growing in the years, including new aspects and disciplines, like control engineering, computer engineering and communication/information engineering. Nowadays mechatronics has a well-defined and fundamental role, in strict relation with robotics. Drawing a sharp border between mechatronics and robotics is impossible, as they share many technologies and objectives. Advanced robots could be defined as mechatronic devices equipped with a “smart

brain", but there are also up-to-date mechatronic devices, used in tight interaction with humans, that are governed by smart architectures (for example, for safety purposes). Aim of this book is to offer a wide overview of new research trends and challenges for both mechatronics and robotics, through the contribution of researchers from different institutions, providing their view on specific subjects they consider as "hot topics" in both fields, with attention to new fields of application, new challenges to the research communities and new technologies available. The reader of this book will enjoy the various contributions, as they have been prepared with actual applications in mind, along a journey from advanced actuators and sensors to human-robot interaction, through robot control, navigation, planning and programming issues. The book presents several state-of-the-art solutions, like multiple-stage actuation to cope with conflicting specification of large motion-spans, ultra-high accuracy, model-based control for high-tech mechatronic systems, modern approaches of software systems engineering to robotics, and humanoids for human assistance. The reader can also find new techniques in approaching the design of mechatronic systems in some possible industrial and service robotics scenarios, with a particular attention for the interaction between humans and mechanisms.

The first book dedicated specifically to automated sample preparation and analytical measurements, this timely and systematic overview not only covers biological applications, but also environmental measuring technology, drug discovery, and quality assurance. Following a critical review of realized automation solutions in biological sciences, the book goes on to discuss special requirements for comparable systems for analytical applications, taking different concepts into consideration and with examples chosen to illustrate the scope and limitations of each technique.

The field of artificial intelligence (AI) has made tremendous advances in the last two decades, but as smart as AI is now, it is getting smarter and becoming more autonomous. This raises a host of challenges to current legal doctrine, including whether AI/algorithms should count as 'speech', whether AI should be regulated under antitrust and criminal law statutes, and whether AI should be considered as an agent under agency law or be held responsible for injuries under tort law. This book contains chapters from US and international law scholars on the role of law in an age of increasingly smart AI, addressing these and other issues that are critical to the evolution of the field.

This edition has been thoroughly revised and updated in order to remain in conformity with the course requirements and provide the recent and contemporary technological progress in the respective areas. In all, the text would serve as the most updated one in the field of CAD/CAM.

Tagungsband des 4. Kongresses Montage Handhabung Industrieroboter

Comparative handbook: robotic technologies law

Robots and Robotic Devices - Vocabulary

Artificial Intelligence, Animal and Environmental Law

Principles and Applications in Cleanroom Automation

DS/ISO 8373

Bringing a unique perspective to the burgeoning ethical and legal issues surrounding the presence of artificial intelligence in our daily lives, the book uses theory and practice on animal rights and the rights of nature to assess the status of robots. Through extensive philosophical and legal analyses, the book explores how rights can be applied to nonhuman entities. This task is completed by developing a framework useful for determining the kinds of personhood for which a nonhuman entity might be eligible, and a critical environmental ethic that extends moral and legal consideration to nonhumans. The framework and ethic are then applied to two hypothetical situations involving real-world technology—animal-like robot companions and humanoid sex robots. Additionally, the book approaches the subject from multiple perspectives, providing a comparative study of legal cases on animal rights and the rights of nature from around the world and insights from structured interviews with leading experts in the field of robotics. Ending with a call to rethink the concept of rights in the Anthropocene, suggestions for further research are made. An essential read for scholars and students interested in robot, animal and environmental law, as well as those interested in technology more generally, the book is a ground-breaking study of an increasingly relevant topic, as robots become ubiquitous in modern society. The Open Access version of this book, available at <http://www.taylorfrancis.com/books/e/ISBN>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license.

This volume presents the results of Bulgarian and international tourism research, and brings together selected papers from the international conference "Tourism and Innovations" held in Varna, Bulgaria, in 2018. It contains theoretical and empirical approaches towards various aspects of tourism concerning both innovations in tourism development and in foreign languages education. As a whole, the book presents innovative solutions and processes in tourism, including management and staff training, provoked by today's opportunities and challenges for future tourism development.

The first part is dedicated to issues in tourism innovation, ranging from those provoked from the changing global environment and tourism demand, through to social innovations concerning tourism products and human resources management. The second section of the book deals with traditions and innovations in foreign language education oriented to managers, operational staff and decision-makers in tourism.

Like the Internet before it, robotics is a socially and economically transformative technology. Robot Law explores how the increasing sophistication of robots and their widespread deployment into hospitals, public spaces, and battlefields requires rethinking of a wide variety of philosophical and public policy issues, including how this technology interacts with existing legal regimes, and thus may inspire changes in policy and in law. This volume collects the efforts of a diverse group of scholars who each, in their own way, has worked to overcome barriers in order to facilitate necessary and timely discussions of a technology in its infancy. Identifying controversial legal, ethical, and philosophical problems, the authors reveal how issues surrounding robotics and regulation are more complicated than engineers could have anticipated, and just how much definitional and applied work remains to be done. This groundbreaking examination of a brand-new reality will be of interest and of use to a variety of groups as the authors include engineers, ethicists, lawyers, roboticists, philosophers, and serving military.

Studies of the overall impact of robotics on the economy have shown that investments in its various sectors – industrial, professional and service robotics – are increasing globally and the markets associated with them are valued in billions. Robotization improves the competitiveness of enterprises, while collaborative robotics reinvents methods of production. Beyond the economic outlook, service robotics, backed by the development of artificial intelligence, raises challenging ethical and social issues. The legal analysis of robotics is no mean feat because it covers a very diverse technical reality. Companies whose businesses are focused on robotic technologies and applications can be confronted with a complex legal situation resulting from the plurality of the applicable rules which have not necessarily been conceived or adopted bearing in mind their specific constraints. This situation should not hamper their development. It only implies taking cues from the economic legal norms which promote such developments and conducting an analysis of the legal risks which they face, given the applicable rules of liability. This comparative study – carried out by members of the Lexing® Network – proposes an overview, having regard to the legislation of 17 different countries, of the legal issues raised by robotics and the way the law in force responds, in a more or less satisfactory manner. Discover the authors & contributors in details under the tab 'Extraits'.

Mobile Robotics

L'étalonnage des robots manipulateurs industriels

Robots, Artificial Intelligence and Service Automation in Travel, Tourism and Hospitality

Advances in Soft and Hard Computing

Economic Report of the President, Transmitted to the Congress February 2016 Together with the Annual Report of the Council of Economic Advisors

Advances in Mobile Robotics

This book provides state-of-the-art scientific and engineering research findings and developments in the area of mobile robotics and associated support technologies. It contains peer-reviewed articles presented at the CLAWAR 2008 conference. Robots are no longer confined to industrial manufacturing environments; rather, a great deal of interest is invested in the use of robots outside the factory environment. The CLAWAR conference series, established as a high-profile international event, acts as a platform for dissemination of research and development findings to address the current interest in mobile robotics in meeting the needs of mankind in various sectors of the society. These include personal care, public health, and services in the domestic, public and industrial environments. The editors of the book have extensive research experience and publications in the area of robotics in general, and in mobile robotics specifically.

Contains the Economic Report of the President as transmitted to the Congress in March 2015, together with The Annual Report of the Council of Economic Advisers and the Statistical Appendix, and includes many charts and graphs in full color.

This book provides state-of-the-art scientific and engineering research findings and developments in the area of mobile robotics and associated support technologies. The book contains peer reviewed articles presented at the CLAWAR 2012 conference. Robots are no longer confined to industrial and manufacturing environments. A great deal of interest is invested in the use of robots outside the factory environment. The CLAWAR conference series, established as a high profile international event, acts as a platform for dissemination of research and development findings and supports such a trend to address the current interest in mobile robotics to meet the needs of mankind in various sectors of the society. These include personal care, public health, services in the domestic, public and industrial environments. The editors of the book have extensive research experience and publications in the area of robotics in general and in mobile robotics specifically, and their experience is reflected in editing the contents of the book.

The digital traces that people leave behind as they conduct their daily lives provide a powerful resource for businesses to better understand the dynamics of an otherwise chaotic society. Digital technologies have become omnipresent in our lives and we still do not fully know how to make the best use of the data these technologies could harness. Businesses leveraging big data appropriately could definitely gain a sustainable competitive advantage. With a balanced mix of texts and cases, this book discusses a variety of digital technologies and how they transform people and organizations. It offers a debate on the societal consequences of the yet unfolding technological revolution and proposes alternatives for harnessing disruptive technologies for the greater

benefit of all. This book will have wide appeal to academics in technology management, strategy, marketing, and human resource management.

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Intelligent Marketing

Digital Transformation in Business and Society

Rights for Robots

Adaptive Mobile Robotics

The book presents a collection of carefully selected, peer-reviewed papers from the 21st International Multi-Conference on Advanced Computer Systems 2018 (ACS 2018), which was held in Międzyzdroje, Poland on September 24th-26th, 2018. The goal of the ACS 2018 was to bring artificial intelligence, software technologies, biometrics, IT security and distance learning researchers in contact with the ACS community, and to give ACS attendees the opportunity to exchange notes on the latest advances in these areas of interest. The primary focus of the book is on high-quality, original and unpublished research, case studies, and implementation experiences. All of the respective papers are of practical relevance to the construction, evaluation, application or operation of advanced systems. The topics addressed are divided into five major groups: artificial intelligence, software technologies, information technology security, multimedia systems, and information system design.

Represents the annual report of the President's Council of Economic Advisers. Appendix B contains historical tables (from 1959 or earlier) on aspects of income (national, personal, and corporate), production, prices, employment, investment, taxes and transfers, and money and finance.

"I have never come across a single book that explains the history, design, and use of cleanroom robotics for electronics manufacturing so thoroughly. This is a must read for anyone designing cleanroom equipment for electronics manufacturing!" Jeff Baird, Director of Engineering, Adept Technology, inc "A must read for anyone working on semiconductor or flat panel robotics. This book captures theory, applications, and best practices." Dr. Martin P. Aalund, Director NPI Engineering, KLA-Tencor Corp. "The definitive reference for cleanroom robotics, as well as a practical guide for anyone who wishes to go beyond theory to the economic justifications and real-world commercial requirements to deploy robot technology." Dr. Rich Mahoney, Director of Robotics, Engineering & Systems Division, SRI International
From the history and evolution of cleanroom automation to the latest applications and industry standards, this book provides the only available complete overview of robotics for electronics manufacturing. Numerous real-world examples enable you to learn from professional experience, maximize the design quality, and avoid expensive design pitfalls. You'll also get design guidelines and hands-on tips for reducing design time and cost, Compliance with industry and de-facto standards for design, assembly, and handling is stressed throughout, and detailed discussions of recommended materials for atmospheric and vacuum robots are included to help shorten product development cycles and avoid expensive material testing.

Based on four empirical studies, Moritz Merkle examines the introduction of humanoid robots to the frontline service encounter in a customer-centric approach focusing on customer expectations and customer responses. The author identifies desirable robotic behavioral cues and shows that service robots meet great acceptance among customers. After service failures, customers are even more likely to forgive service robots than human employees. Further, he shows how crucial it is to manage customer expectations that depend on cultural dimensions and internal reference categories.

New Trends and Challenges

Proceedings of the 27th International Conference on Robotics in Alpe-Adria Danube Region (RAAD 2018)

Innovation Policy and the Economy, 2018

Information and Communication Technologies in Tourism 2019

Telehealth and Mobile Health

Automation Solutions for Analytical Measurements

This volume contains the proceedings of the RAAD 2018 conference, covering major areas of research and development in robotics. It provides an overview on the advances in robotics, more specifically in novel design and applications of robotic systems; dexterous grasping, handling and intelligent manipulation; intelligent cooperating and service robots; advanced robot control; human-robot interfaces; robot vision systems and visual serving techniques; mobile robots; humanoid and walking robots; field and agricultural robotics; bio-inspired and swarm robotic systems; developments towards micro and nano-scale robots; aerial, underwater and spatial robots; robot integration in holonic manufacturing; personal robots for ambient assisted living; medical robots and bionic prostheses; intelligent information technologies for cognitive robots etc. The primary audience of the work are researchers as well as engineers in robotics and mechatronics.

The E-Medicine, E-Health, M-Health, Telemedicine, and Telehealth Handbook provides extensive coverage of modern telecommunication in the medical

industry, from sensors on and within the body to electronic medical records and beyond. Telehealth and Mobile Health is the second volume of this handbook. Featuring chapters written by leading experts and researchers in their respective fields, this volume: Discusses telesurgery, medical robotics, and image guidance as well as telenursing and remote patient care Describes the implementation of networks, data management, record management, and effective personnel training Explains how the use of new technologies brings many business, management, and service opportunities Provides examples of scientific advancements such as brain-controlled bionic human arms and hands Incorporates clinical applications throughout for practical reference The E-Medicine, E-Health, M-Health, Telemedicine, and Telehealth Handbook bridges the gap between scientists, engineers, and medical professionals by creating synergy in the related fields of biomedical engineering, information and communication technology, business, and healthcare. [After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net] This Standard specifies the terms and definitions, requirements and test methods for assisted surgical medical equipment and assisted surgical medical system employing robotic technology. International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies publishes a wide spectrum of research and technical articles as well as reviews, experiments, experiences, modelings, simulations, designs, and innovations from engineering, sciences, life sciences, and related disciplines as well as interdisciplinary/cross-disciplinary/multidisciplinary subjects. Original work is required. Article submitted must not be under consideration of other publishers for publications.

Robotics for Electronics Manufacturing

Proceedings of the 15th International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machines, Baltimore, USA, 23-26 July, 2012

A Work-piece Based Approach for Programming Cooperating Industrial Robots

Regulating Automation in Personal Care

Economic Report of the President Transmitted to the Congress

Mechatronics and Robotics

The two topics at the heart of this thesis are how to improve control of industrial manipulators and how to reason about the role of models in automatic control. On industrial manipulators, two case studies are presented. The first investigates estimation with inertial sensors, and the second compares control by feedback linearization to control based on gain-scheduling. The contributions on the second topic illustrate the close connection between control and estimation in different ways. A conceptual model of control is introduced, which can be used to emphasize the role of models as well as the human aspect of control engineering. Some observations are made regarding block-diagram reformulations that illustrate the relation between models, control and inversion. Finally, a suggestion for how the internal model principle, internal model control, disturbance observers and Youla-Kucera parametrization can be introduced in a unified way is presented.

Der MHI e.V. ist ein Netzwerk leitender Universitätsprofessoren aus dem deutschsprachigen Raum, die sowohl grundlagenorientiert als auch anwendungsnahe in der Montage, Handhabung und Industrierobotik erfolgreich forschend tätig sind. Die Gründung der Gesellschaft erfolgte im Frühjahr 2012. Der MHI e.V. hat derzeit 20 Mitglieder, die über ihre Institute und Lehrstühle zurzeit ca. 1.000 Wissenschaftler repräsentieren. Die übergeordnete Zielsetzung des MHI e.V. ist die Förderung der Zusammenarbeit von deutschsprachigen Wissenschaftlerinnen und Wissenschaftlern untereinander, sowie mit der Industrie im Bereich Montage, Handhabung und Industrierobotik zur Beschleunigung der Forschung, Optimierung der Lehre und zur Verbesserung der internationalen Wettbewerbsfähigkeit der deutschen Industrie in diesem Bereich. Das Kolloquium fokussiert auf einen akademischen Austausch auf hohem Niveau, um die gewonnenen Forschungsergebnisse zu verteilen, synergetische Effekte und Trends zu bestimmen, die Akteure persönlich zu verbinden und das Forschungsfeld sowie die MHI-Gemeinschaft zu stärken.

This book provides an extensive, up-to-date overview of the ways in which information and communication technologies (ICTs) can be used to develop tourism and hospitality. The coverage encompasses a wide variety of topics within the field, including virtual reality, sharing economy and peer-to-peer accommodation, social media use, hotel technology, big data, robotics, and recommendation systems, to name but a few. The content is based on the 2019 ENTER eTourism conference, organized in Nicosia, Cyprus by the International Federation for Information Technologies and Travel & Tourism (IFITT) – the leading independent global community for the discussion, exchange, and development of knowledge on the use and impact of new ICTs in the travel and tourism industry. The book offers a global perspective and rich source of information on important innovations and novel ideas. Though it will prove especially valuable for academics working in the eTourism field, it will also be of considerable interest to practitioners and students.

Research Handbook on the Law of Artificial Intelligence

Safety, Standardization, and Benchmarking

Control, Models and Industrial Manipulators

Just Ordinary Robots
Proceedings of the International Conference in Nicosia, Cyprus, January 30–February 1, 2019