



# New Trends Medical Service Robots

**Jose L. Pons, Dario Farina, Jesus  
Tornero**



## **New Trends Medical Service Robots:**

**New Trends in Medical and Service Robotics** Med Amine Laribi, Giuseppe Carbone, Doina Pisla, Said Zeghloul, 2025-07-10 This book contains the papers of the 9th International Workshop on Medical and Service Robots MESROB which was held in Poitiers France on July 2 4 2025 The main topics include design of medical devices kinematics and dynamics for medical robotics exoskeletons and prostheses anthropomorphic hands therapeutic robots and rehabilitation cognitive robots humanoid and service robots assistive robots and elderly assistance surgical robots human robot interfaces haptic devices medical treatments medical lasers and surgical planning and navigation The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists demonstrating that medical and service robotics will drive the technological and societal change in the coming decades Chapter A Pneumatic HandHeld Device for Finger Active Tele rehabilitation is available open access under a Creative Commons Attribution NonCommercial NoDerivatives 4 0 International License via link [springer.com](https://www.springer.com) [New Trends in Medical and Service Robots](#) Doina Pisla, Hannes Bleuler, Aleksandar Rodic, Calin Vaida, Adrian Pisla, 2013-09-06 This book contains mainly the selected papers of the First International Workshop on Medical and Service Robots held in Cluj Napoca Romania in 2012 The high quality of the scientific contributions is the result of a rigorous selection and improvement based on the participants exchange of opinions and extensive peer review This process has led to the publishing of the present collection of 16 independent valuable contributions and points of view and not as standard symposium or conference proceedings The addressed issues are Computational Kinematics Mechanism Design Linkages and Manipulators Mechanisms for Biomechanics Mechanics of Robots Control Issues for Mechanical Systems Novel Designs Teaching Methods all of these being concentrated around robotic systems for medical and service applications The results are of interest to researchers and professional practitioners as well as to Ph D students in the field of mechanical and electrical engineering This volume marks the start of a subseries entitled New Trends in Medical and Service Robots within the Machine and Mechanism Science Series presenting recent trends research results and new challenges in the field of medical and service robotics [New Trends in Medical and Service Robots](#) Manfred Husty, Michael Hofbaur, 2017-07-25 These are selected papers presented at the 5th International Workshop on Medical and Service Robots MESROB 2016 The main topics of the workshop included Exoskeleton and prostheses Therapeutic robots and rehabilitation Cognitive robots Humanoid Assistive robots and elderly assistance Surgical robots Human robot interfaces Kinematic and mechatronic design for medical and assistive robotics and Legal issues in medical robotics The workshop brought together researchers and practitioners to discuss new and emerging topics of Medical and Service Robotics The meeting took place at castle St Martin in Graz Austria from 4 6 July 2016 **New Trends in Medical and Service Robots** Hannes Bleuler, Mohamed Bouri, Francesco Mondada, Doina Pisla, Aleksandar Rodić, Patrick

Helmer,2015-11-12 Medical and Service Robotics integrate the most recent achievements in mechanics mechatronics computer science haptic and teleoperation devices together with adaptive control algorithms The book includes topics such as surgery robotics assist devices rehabilitation technology surgical instrumentation and Brain Machine Interface BMI as examples for medical robotics Autonomous cleaning tending logistics surveying and rescue robots and elderly and healthcare robots are typical examples of topics from service robotics This is the Proceedings of the Third International Workshop on Medical and Service Robots held in Lausanne Switzerland in 2014 It presents an overview of current research directions and fields of interest It is divided into three sections namely 1 assistive and rehabilitation devices 2 surgical robotics and 3 educational and service robotics Most contributions are strongly anchored on collaborations between technical and medical actors engineers surgeons and clinicians Biomedical robotics and the rapidly growing service automation fields have clearly overtaken the classical industrial robotics and automatic control centered activity familiar to the older generation of roboticists

New Trends in Medical and Service Robotics Georg Rauter,Giuseppe Carbone,Philippe C. Cattin,Azhar Zam,Doina Pislă,Robert Riener,2022-07-23 This volume contains the papers of the 7th International Workshop on Medical and Service Robots MESROB which was held in Basel Switzerland on June 7 9 2021 The main topics include design of medical devices kinematics and dynamics for medical robotics exoskeletons and prostheses anthropomorphic hands therapeutic robots and rehabilitation cognitive robots humanoid and service robots assistive robots and elderly assistance surgical robots human robot interfaces haptic devices medical treatments medical lasers and surgical planning and navigation The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists demonstrating that medical and service robotics will drive the technological and societal change in the coming decades

*New Trends in Medical and Service Robotics* Daniela Tarnita,Nicolae Dumitru,Doina Pislă,Giuseppe Carbone,Ionut Geonea,2023-05-18 This volume contains the papers of the 8th International Workshop on Medical and Service Robots MESROB which was held in Craiova Romania on June 7 10 2023 The main topics include design of medical devices kinematics and dynamics for medical robotics exoskeletons and prostheses anthropomorphic hands therapeutic robots and rehabilitation cognitive robots humanoid and service robots assistive robots and elderly assistance surgical robots human robot interfaces haptic devices medical treatments medical lasers and surgical planning and navigation The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists demonstrating that medical and service robotics will drive the technological and societal change in the coming decades

**New Trends in Medical and Service Robots** Aleksandar Rodić,Doina Pislă,Hannes Bleuler,2014-04-08 This volume describes new frontiers in medical and service robotics in the light of recent developments in technology to advance robot

design and implementation In particular the work looks at advances in design development and implementation of contemporary surgical rehabilitation and biorobots Surgical robots allow surgeons greater access to areas under operation using more precise and less invasive methods Rehabilitation robots facilitate and support the lives of the infirm elderly people or those with dysfunction of body parts affecting movement These robots are also used for rehabilitation and related procedures such as training and therapy Biorobots are designed to imitate the cognition of humans and animals The need to substitute humans working on delicate tiresome and monotonous tasks or working with potentially health damaging toxic materials requires intelligent high performance service robots with the ability to cooperate advanced communication and sophisticated perception and cognitive capabilities Progress in this field is fast and results need to be disseminated to stimulate both practical applications and further research Thus these papers are a valuable addition to existing literature

*Advances in Service and Industrial Robotics* Saïd Zeghloul, Med Amine Laribi, Juan Sandoval, 2021-05-03 This book presents the proceedings of the 30th International Conference on Robotics in Alpe Adria Danube Region RAAD 2021 held in Poitiers France 21-23 June 2021 It gathers contributions by researchers from several countries on all major areas of robotic research development and innovation as well as new applications and current trends The topics covered include novel designs and applications of robotic systems intelligent cooperating and service robots advanced robot control human robot interfaces robot vision systems mobile robots humanoid and walking robots bio inspired and swarm robotic systems aerial underwater and spatial robots robots for ambient assisted living medical robots and bionic prostheses cognitive robots cloud robotics ethical and social issues in robotics etc Given its scope the book offers a source of information and inspiration for researchers seeking to improve their work and gather new ideas for future developments New Technologies, Development and Application IV Isak Karabegović, 2021-05-11 This book features papers focusing on the implementation of new and future technologies which were presented at the International Conference on New Technologies Development and Application held at the Academy of Science and Arts of Bosnia and Herzegovina in Sarajevo on June 24-26 2021 It covers a wide range of future technologies and technical disciplines including complex systems such as Industry 4.0 patents in industry 4.0 robotics mechatronics systems automation manufacturing cyber physical and autonomous systems sensors networks control energy renewable energy sources automotive and biological systems vehicular networking and connected vehicles effectiveness and logistics systems smart grids nonlinear systems power social and economic systems education and IoT The book *New Technologies Development and Application III* is oriented toward Fourth Industrial Revolution Industry 4.0 implementation which improves many aspects of human life in all segments and leads to changes in business paradigms and production models Further new business methods are emerging and transforming production systems transport delivery and consumption which need to be monitored and implemented by every company involved in the global market **Service Robots** Antonio Neves, 2018-01-04 The idea of using robots in our daily lives was an inspiring research in the field of robotics

during the last decades Service robots can be found nowadays in warehouses hospitals retail stores city streets and industrial parks or as personal assistants The effort on the development of these robots is confirmed by the amount of money invested in projects and companies the creation on new start ups worldwide and not less important the quantity and quality of the manuscripts published in journals and conferences worldwide This book is an outcome of research done by several researchers who have highly contributed to the field of service robots The main goal of this book is to present the recent advances in the field of service robots

*Medical and Healthcare Robotics* Olfa Bouabaker, 2023-08-01 Medical and Healthcare Robotics New Paradigms and Recent Advances provides an overview and exclusive insights into current trends the most recent innovations and concerns in medical robotics The book covers the major areas of medical robotics including rehabilitation devices artificial organs assistive technologies service robotics and robotic devices for surgery exploration diagnosis therapy and training It highlights the limitations and the importance of robotics and artificial intelligence for medical and healthcare applications The book is a timely and comprehensive reference guide for undergraduate level students graduate students and researchers in the fields of electrical engineering mechanical engineering mechatronics control systems engineering and biomedical engineering It can be useful for master s programs leading consultants and industrial companies The book can be of high interest for physicians and physiotherapists and all technical people in the medical and biomedical fields Covers the main areas of medical and healthcare robotics Presents the most recent innovations and trends in medical and healthcare robotics Contains chapters written by eminent researchers in the field

New Advances in Mechanisms, Mechanical Transmissions and Robotics Ioan Doroftei, Erwin-Christian Lovasz, 2025-05-02 This book gathers the proceedings of the Joint International Conference of the XIV International Conference on Mechanisms and Mechanical Transmissions MTM and the XXVI International Conference on Robotics Robotics held in Ia i Romania on November 14 16 2024 It addresses the applications of mechanisms and transmissions in several modern technical fields such as mechatronics biomechanics machines micromachines robotics and apparatus In doing so it combines theoretical findings and experimental testing The book presents peer reviewed papers written by researchers specialized in mechanism analysis and synthesis dynamics of mechanisms and machines mechanical transmissions biomechanics precision mechanics mechatronics micromechanisms and microactuators computational and experimental methods CAD in mechanism and machine design mechanical design of robot architecture parallel robots mobile robots micro and nano robots sensors and actuators in robotics intelligent control systems biomedical engineering teleoperation haptics and virtual reality

Advances in Service and Industrial Robotics Doina Pislă, Giuseppe Carbone, Daniel Condurache, Calin Vaida, 2024-05-10 This book presents the Proceedings of the 33rd International Conference on Robotics in Alpe Adria Danube Region RAAD held in Cluj Napoca Romania June 5 7 2024 It gathers contributions by researchers from multiple countries on all major areas of robotic research development and innovation as well as new applications and current trends The topics include

perception and learning medical robotics and biomechanics industrial robots and education kinematics and dynamics motion planning and control service robotics and applications mobile robots and innovative robot design etc Given its scope the book offers a source of information and inspiration for researchers seeking to improve their work and gather new ideas for future developments

*New Advances in Mechanisms, Mechanical Transmissions and Robotics* Erwin-Christian Lovasz, Inocentiu Maniu, Ioan Doroftei, Mircea Ivanescu, Corina-Mihaela Gruescu, 2020-10-14 This volume gathers the proceedings of the Joint International Conference of the XIII International Conference on Mechanisms and Mechanical Transmissions MTM and the XXIV International Conference on Robotics Robotics held in Timi oara Romania It addresses the applications of mechanisms and transmissions in several modern technical fields such as mechatronics biomechanics machines micromachines robotics and apparatus In doing so it combines theoretical findings and experimental testing The book presents peer reviewed papers written by researchers specialized in mechanism analysis and synthesis dynamics of mechanisms and machines mechanical transmissions biomechanics precision mechanics mechatronics micromechanisms and microactuators computational and experimental methods CAD in mechanism and machine design mechanical design of robot architecture parallel robots mobile robots micro and nano robots sensors and actuators in robotics intelligent control systems biomedical engineering teleoperation haptics and virtual reality

*Advances in Service and Industrial Robotics* Nikos A. Aspragathos, Panagiotis N. Koustoumpardis, Vassilis C. Moulianitis, 2018-09-28 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

Emerging Therapies in Neurorehabilitation III Jose L. Pons, Dario Farina, Jesus Tornero, 2025-05-03 This book offers a timely snapshot of research of biomedical and neural engineering and their applications in neurorehabilitation It gathers peer reviewed contributions to three different conference editions of the series Summer School on Neurorehabilitation SSNR which were held in Baiona Spain on June 12 17 2022 June 11 16 2023 and June 16 21 2024 respectively They report on applications of cutting edge neuroprosthetic devices robotic interfaces and related technologies to assist patients with neurologic and musculoskeletal conditions such as stroke spinal cord injury and amputation among others A special feature consists of the fact that both technological and clinical issues are discussed providing readers with a multidisciplinary perspective on neurorehabilitation research and practice

**Robots, Healthcare, and the Law** Eduard

Fosch-Villaronga,2019-11-04 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

*Advances in Robot Design and Intelligent Control* Aleksandar Rodić,Theodor Borangiu,2016-11-26 This book presents the proceedings of the 25th International Conference on Robotics in Alpe Adria Danube Region RAAD 2016 held in Belgrade Serbia on June 30th July 2nd 2016 In keeping with the tradition of the event RAAD 2016 covered all the important areas of research and innovation in new robot designs and intelligent robot control with papers including Intelligent robot motion control Robot vision and sensory processing Novel design of robot manipulators and grippers Robot applications in manufacturing and services Autonomous systems humanoid and walking robots Human robot interaction and collaboration Cognitive robots and emotional intelligence Medical human assistive robots and prosthetic design Robots in construction and arts and Evolution education legal and social issues of robotics For the first time in RAAD history the themes cloud robots legal and ethical issues in robotics as well as robots in arts were included in the technical program The book is a valuable resource for researchers in fields of robotics engineers who implement robotic solutions in manufacturing services and healthcare and master s and Ph D students working on robotics projects

*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

**Mechanism Design for Robotics** Saïd Zeghloul, Med Amine Laribi, Marc Arsicault, 2021-05-08 This book presents the proceedings of the 5th IFToMM Symposium on Mechanism Design for Robotics MEDER 2021 held in Poitiers France 23-25 June 2021. It gathers contributions by researchers from several countries on all major areas of robotic research development and innovation as well as new applications and current trends. The topics covered include theoretical and computational kinematics mechanism design experimental mechanics mechanics of robots control issues of mechanical systems machine intelligence innovative mechanisms and applications linkages and manipulators micro mechanisms dynamics of machinery and multi body systems. Given its scope the book offers a source of information and inspiration for researchers seeking to improve their work and gather new ideas for future developments.

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