

New Trends in Medical and Service Robots



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This published publication is excellent. This really is for all who statte there had not been a well worth studying. I am very happy to inform you that this is the very best ebook i have read through within my very own daily life and could be he greatest pdf for possibly.
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NEW TRENDS IN MEDICAL AND SERVICE ROBOTS

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Condition: New. Publisher/Verlag: Springer, Berlin | Assistive, Surgical and Educational Robotics | 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. | Preface.- Part I Assistive and Rehabilitation Devices.- Study and choice of actuation of a walking assist device, by Y. Aoustin, C. Chevallereau and V. Arakalian.- Hybrid Adaptive Low Cost Support Device For FES Stroke Rehabilitation, by G. Cannella, D. S. Laila and C. T. Freeman.- Motion Control Algorithm of Walking Assist Machine Using Crutches to Achieve Variable Gait Style and Step Length, by D. Matsuura, R. Inose and Y. Takeda.- On developing lightweight robot-arm of anthropomorphic characteristics, by A. Rodic, B. Miloradovic, S. Popic and D. Urukalo.- Towards a natural interface for the control of a whole arm prosthesis, by G. Gini, P. Belluco and F. Mutti.- Design & Simulation of an Orthotic Device for Patients with Osteoarthritis, by D. Tarnita, M. Catana, N. Dumitru...

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