



Rehabilitation Robotic Hand Exoskeletons A topological classification, synthesis, design and manufacture of a novel hand exoskeleton

By Mohammad Mozaffari Fomashi

LAP LAMBERT Academic Publishing. Paperback. Condition: New. 124 pages. Dimensions: 8.7in. x 5.9in. x 0.3in. This book presents the synthesis of a Hand Exoskeleton (HE) for the rehabilitation of post-stroke patients. Through the analysis of the state-of-the-art, a topological classification was proposed. Based on the proposed classification principles, the rehabilitation HEs were systematically analyzed and classified accordingly, that is effective to both perceive the demand for proposing application-specific solutions and provide some useful guidelines for the design of a new HE. Further, a novel rehabilitation HE was designed to support patients in cylindrical shape grasping tasks with the aim of recovering the basic functions of manipulation. Numerous multi-objective optimizations followed by building a final prototype. The experimental results of the preliminary tests are promising and demonstrate the potential for clinical applications of the proposed device in robot-assisted training of the human hand for grasping functions. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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