1. Record Nr. UNINA9910299907003321

Titolo	Cable-Driven Parallel Robots : Proceedings of the Third International Conference on Cable-Driven Parallel Robots / / edited by Clément Gosselin, Philippe Cardou, Tobias Bruckmann, Andreas Pott
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-61431-2
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (422 pages)
Collana	Mechanisms and Machine Science, , 2211-0984 ; ; 53
Disciplina	620
Soggetti	Robotics Automation Artificial intelligence Machinery Vibration Dynamical systems Dynamics Control engineering Robotics and Automation Artificial Intelligence Machinery and Machine Elements Vibration, Dynamical Systems, Control Control and Systems Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Modelling of Flexible Cable-Driven Parallel Robots using a Rayleigh-Ritz Approach -- Assumed-mode-based Dynamic Model for Cable Robots with Non-straight Cables -- Manipulator Deflection for Optimum Tension of Cable-Driven Robots with Parameter Variations -- Sensitivity Analysis of the Elasto-Geometrical Model of Cable-Driven Parallel Robots -- CASPR-ROS: A Generalised Cable Robot Software in ROS for Hardware -- A Polymer Cable Creep Modeling for a Cable-

	Driven Parallel Robot in a Heavy Payload Application -- Bending Fatigue Strength and Lifetime of Fiber Ropes.
Sommario/riassunto	This book presents proceedings of the third international conference in this field, continuing the success of the previous events. The peer-reviewed and the selected papers are arranged to make the proposed book the most recent and complete overview on the State-of-the-Art in Cable-Driven Parallel Robots! The conference took place 2017 in Quebec, QC, Canada,.