

# **Mechanisms and Machine Science**

Volume 74

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Andreas Pott · Tobias Bruckmann  
Editors

# Cable-Driven Parallel Robots

Proceedings of the 4th International  
Conference on Cable-Driven Parallel Robots



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# Preface

In 2012, leading experts from three continents gathered during the “First International Conference on Cable-Driven Parallel Robots (CableCon 2012)” in Stuttgart, Germany. This conference initiated a forum for the cable robot community. Due to the great success, the event was continued by the “Second International Conference on Cable-Driven Parallel Robots (CableCon 2014)” at the University Duisburg-Essen in 2014, establishing CableCon as a home for cable robot researchers.

In 2017, the “Third International Conference on Cable-Driven Parallel Robots (CableCon 2017)” was organized by the Université Laval in Québec, Canada. This time, the conference went across the Atlantic Ocean and emphasized its role as an international event, where researchers from all over the world find a place to connect with the most recognized experts from the field.

Meanwhile, practical investigations on cable robots are attracting the focus of the research teams around the world. At the same time, fundamental research still continues to provide new insights to the physical understanding of cable-driven parallel robots. This broad variety of research activities is reflected by the content of this book.

The editors would like to thank the authors for their valuable contributions. Noteworthy, the strict schedule in the preparation of this book would not have been feasible without the support of the reviewers and the scientific committee.

All three conferences in the past were organized under the patronage of International Federation for the Promotion of Mechanism and Machine Science (IFTToMM). This time, the “Fourth International Conference on Cable-Driven Parallel Robots” takes even place as part of the “15th IFTToMM World Congress” in Krakow, Poland. We are proud that IFTToMM decided to welcome the fourth edition of CableCon at this very special event, which celebrates the 50th anniversary of IFTToMM at the same time.

CableCon 2019 was organized by the University of Duisburg-Essen and the University Stuttgart together with the organizers of the “15th IFTToMM World

Congress". We would like to express our gratefulness to Tadeusz Uhl and his supporting team – namely Anna Inglot and Marta Polak – for their continuous assistance.

Stuttgart, Germany  
Duisburg, Germany

Andreas Pott  
Tobias Bruckmann  
Editors

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