

Preface

This book contains the *Proceedings of the 6th International Workshop on Computational Kinematics (CK2013)* sponsored by IFToMM, the International Federation for the Promotion of Mechanism and Machine Science.

This time this workshop comes to Barcelona, taking place from 12 to 15, May 2013. In this occasion, 73 papers have been received. After peer-reviewed evaluation, 44 papers, from 21 different countries, have been accepted for presentation. The community of kinematicians, thus, continues to exhibit its traditional vitality.

The reader will find here a representative sample of the most modern techniques available nowadays for the solution of challenging problems arising in computational kinematics. In light of its contents, this book should be of interest to researchers, graduate students, and practicing engineers working in kinematics or related areas. Especially, roboticists, biomechanicists, machine designers, and computer scientists will find here a useful source of information comprising methods, algorithms, and applications.

In the nineteenth century, Pafnuty Chebyshev, who was a great enthusiast for kinematics, said that Kinematics is more fruitful than Geometry because it adds a fourth dimension of time to the three-dimensional space. The researchers gathering in Barcelona on occasion of CK2013 will continue to make this truth, and to show how their results have an important influence in many different domains that range from Robotics to Proteomics.

We thank the authors for the valuable contributions, as well as the 45 reviewers for having completed their work in a timely manner. Last, but not least, we thank Ana Canales and Victor Vilchez for taking care of all the organizational details, and Josep M. Porta for his help during the painstaking labor of the final typesetting of this book.

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Computational Kinematics

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