

Preface

The seventh edition of the “International Congress Design and Modelling of Mechanical Systems” CMSM’2017 was held in Hammamet, Tunisia, from 27 to 29 March 2017. This congress was organized jointly between two Tunisian research laboratories: the Laboratory of Mechanics, Modelling and Production of the National school of Engineers of Sfax and the Laboratory of Mechanical Engineering of the National School of Engineers of Monastir.

This book is the third volume of the LNME book series “Design and Modelling of Mechanical Systems”. It contains 123 papers presented during the CMSM’2017 congress. More than 300 participants discussed during the 3 days of the congress, latest advances in the field of design and modeling of mechanical systems. Similar to the past editions, the topics presented and discussed during the congress were very broad covering of research topics of mechanical modeling and design.

The organizers of the conference were honored by the presence of 10 keynote speakers, who are experts in the field of modeling of mechanical systems, namely:

- Prof. Jean Yves Choley, Laboratory QUARTZ, SUPMECA, Paris, France
- Prof. José Antunes, Applied Dynamics Laboratory, IST, Lisbon, Portugal
- Prof. Mohamed Najib Ichchou, Laboratory of Tribology and System Dynamics, Ecole centrale de Lyon, France
- Prof. Mabrouk Ben Tahar, Laboratory Roberval, Université de Technologie de Compiègne, France
- Prof. Jean-François Deu, Structural Mechanics and Coupled Systems Laboratory, CNAM, Paris, France
- Prof. Abdelkhalek El Hami, Laboratory Optimization and Reliability in Structural Mechanics, INSA Rouen, France
- Prof. Ming J. Zuo, University of Alberta, Edmonton, Alberta, Canada
- Prof. Yvon Chevalier, Supmeca, Paris, France

- Prof. Hachmi Ben Dhia, MSSMat Laboratory, CentraleSupélec, Paris-Saclay University, France
- Prof. Taoufik Boukharouba, Laboratory of Advanced Mechanics “LMA”, USTHB, Alger—Algeria.

Each chapter included in this book was rigorously reviewed by two referees. Our gratitude goes to all members of the scientific committee for their valuable efforts to reach a high quality of contributions.

We would like also to thank all authors, presenters, and participants of seventh edition of CMSM’2017. Finally, special thanks go to Springer for their continuous support of this conference.

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March 2017

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