

Interdisciplinary Applications of Kinematics

Andrés Kecskeméthy, Veljko Potkonjak,
and Andreas Müller (Eds.)

Interdisciplinary Applications of Kinematics

Proceedings of the International Conference,
Lima, Perú, January 9–11, 2008

 Springer


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ISBN 978-94-007-2977-3

e-ISBN 978-94-007-2978-0

DOI 10.1007/978-94-007-2978-0

Springer Dordrecht Heidelberg New York London

Library of Congress Control Number: 2011942889

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Printed on acid-free paper

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Preface

The present proceedings collects 14 papers that were selected after a rigorous peer review for the First Conference on Interdisciplinary Applications in Kinematics, held in Lima, Peru, from January 9–11, 2008.

The objective of the conference was to bring together researchers from different fields where kinematics plays a role. This includes not only theoretical fields where kinematics is traditionally established, but in particular applications in which kinematics might contribute new perspectives for practical applications. Examples are the areas of biomechanics, industrial machinery, molecular kinematics, railway vehicles and many others.

The participation of 16 researchers from 10 countries shows the strong interest these topics find in the scientific community. Moreover, the site of the conference in Peru not only proved to be very successful, but also helped to foster the international scientific cooperation in this region, which has outstanding potentials.

We thank the authors for submitting their valuable contributions for this conference as well as the reviewers for performing the reviews in due time. We also thank the publisher Springer for the timely implementation of this book and the valuable advices during the production process. We are very grateful to the Universidad de Piura Campus Lima, the Pontificia Universidad Católica del Perú as well as the University of Duisburg-Essen for sponsoring this conference and contributing to its success. Our special acknowledgements go to the Förderverein Ingenieurwissenschaften Universität Duisburg-Essen (Association of Friends of Engineering Science of the University of Duisburg-Essen) for their valuable contribution to the funding of the present proceedings. Last but not least, we thank the International Federation for the Promotion of Mechanism and Machine Science IFToMM for the ideal support by offering its patronage for this conference.

Andrés Kecskeméthy
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