Wego Wang

Editor

Mechatronics and Automatic Control Systems

Proceedings of the 2013 International
Conference on Mechatronics
and Automatic Control Systems (ICMS2013)

Springer

Editor

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University of Massachusetts Lowell

Wellesley, MA, USA

ISSN 1876-1100

ISBN 978-3-319-01272-8

DOI 10.1007/978-3-319-01273-5

Springer Cham Heidelberg New York Dordrecht London

ISSN 1876-1119 (electronic)

ISBN 978-3-319-01273-5 (eBook)

Library of Congress Control Number: 2013950379

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Printed on acid-free paper

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Preface

This book contains papers accepted by the 2013 International Conference on Mechatronics and Automatic Control Systems (ICMS), which was held on 10 and 11 August, 2013, in Hangzhou, China.

It covers emerging technologies in a timely manner for two important subjects: mechatronics and automatic control systems. In particular, it allows researchers and students to become familiar with state-of-the-art developments in the field, and it also helps engineers and practitioners enhance their productivity with the latest technology.

The book is composed of two volumes. The first volume has 64 papers focusing on Advanced Mechanics and Mechatronics (Part I), Intelligent Systems and Algorithms (Part II), and Manufacturing Engineering and Engineering Systems (Part III); the second includes 56 papers in the areas of Control Theory and Application (Part IV), Data Mining and Application (Part V), Sensing Control Theory (Part VI), and Signal Processing and Control (Part VII). Both volumes will serve as references for practitioners, faculty, and students to help them quickly incorporate into their work the most recent advancements in these fields and state-of-the-practice of mechanics, electronics, and computing, to efficiently and effectively improve the reliability and feasibility of high-traffic and mission-critical systems.

We extend our gratitude not only to the authors for contributing their ideas, works, and experiences but also to the reviewers for guiding the evaluation and selection of high-quality papers – this book would not have been possible without them. Special thanks also to Mr. Brett Kurzman and Miss Rebecca Hytowitz at Springer US for their valuable assistance with logistical issues throughout the publication process.

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