

Preface

Mechatronics is in fact the combination of enabling technologies brought together to reduce complexity through the adaptation of interdisciplinary techniques in production.

Focusing on the most rapidly changing areas of mechatronics, this book discusses signals and system control, mechatronic products, metrology and nanometrology, automatic control & robotics, biomedical engineering, photonics, design manufacturing and testing of MEMS. It is reflected in the list of contributors, including an international group of 302 leading researchers representing 12 countries.

The book is intended for use in academic, government and industry R&D departments, as an indispensable reference tool for the years to come. Also, we hope that the volume can serve the world community as the definitive reference source in Mechatronics.

Through this publication we hope to establish and provide an international platform for information exchange in the mechatronics fields mentioned above.

The book comprises carefully selected 93 contributions presented at the 11th International Conference Mechatronics 2015, organized by Faculty of Mechatronics, Warsaw University of Technology, on September 21–23, in Warsaw, Poland. It is the fifth volume in series, following the editions in 2007, 2009, 2011 and 2013.

We would like to thank all authors for their contribution to this book.

Ryszard Jabłoński

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