

EDITORS

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SELECTED TOPICS ON CONSTRAINED AND NONLINEAR CONTROL

WORKBOOK



2011

STU BRATISLAVA and NTNU TRONDHEIM

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Editors

**Selected Topics on
Constrained and Nonlinear
Control
Workbook**

STU Bratislava – NTNU Trondheim

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Compilation: Miroslav Fikar
Cover: Tatiana Hubová
Printed and bounded in Slovakia by Miloslav Roubal ROSA, Dolný Kubín
and Tlačiareň Vrábel, Dolný Kubín
ISBN: 978-80-968627-3-3

Preface

This workbook was created within the NIL-I-007-d Project “Enhancing NO-SK Cooperation in Automatic Control” (ECAC) carried out in 2009-2011 by university teams from the Slovak University of Technology in Bratislava and from the Norwegian University of Science and Technology in Trondheim. As it is already given by the project title, its primary aim was enhancing cooperation in academic research in the automatic control area in the partner institutions. This was achieved by supporting broad spectrum of activities ranging from student mobilities at the MSc. and PhD. level, staff mobilities, organization of multilateral workshop and conferences, joint development of teaching materials and publishing scientific publications. With respect to the original project proposal, the period for carrying out the foreseen activities was reasonably shortened and that made management of the all work much more demanding. Despite of this, the project has reached practically all planned outputs – this workbook represents one of them – and we believe that it really contributes to the enhancement of Slovak-Norwegian cooperation and to improvement of the educational framework at both participating universities. Thereby, I would like to thank all colleagues participating in the project activities at both participating universities and especially professor Sigurd Skogestad, coordinator of activities at the NTNU Trondheim, associate professor Katarína Žáková for managing the project activities, and professor Miroslav Fikar for the patient and voluminous work with collecting all contribution and compilation of all main three project publications (textbook, workbook, and workshop preprints).

Bratislava
2.1.2011

Mikuláš Huba
Project coordinator

Acknowledgements

The authors and editors are pleased to acknowledge the financial support the grant No. NIL-I-007-d from Iceland, Liechtenstein and Norway through the EEA Financial Mechanism and the Norwegian Financial Mechanism. This book is also co-financed from the state budget of the Slovak Republic.

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