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Young Control and Optimization

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This journal is edited and published by the Systems Research Institute of the Polish Academy of Sciences. Its main objective is to stimulate the development of broadly conceived systems theory and analysis.

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We hope that CONTROL AND CYBERNETICS will contribute to the development of systems and control sciences and will stimulate and encourage applications of systems approach in different areas.

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PREFACE

The present volume, being a special issue of the journal *Control & Cybernetics*, contains selected articles based on the talks given at Fourth Junior European Meeting on "Control and Optimization", which was held at the Białystok Technical University in Białystok, Poland, on 11-14 September 2005.

The Meeting was organized by the Institute of Mathematics and Physics of the Białystok Technical University and by the Foundation for Development of the Białystok Technical University (*Fundacja na Rzecz Rozwoju Politechniki Białostockiej*), and was sponsored by the Ministry of National Education and Sport of Republic of Poland, this sponsorship, extending also to the publication of the present volume, being gratefully acknowledged.

The articles herein provide new developments in several areas related to control and optimization, in particular: optimal control, systems on time scales, viability of differential inclusions, differential games, infinite dimensional and delay systems, state estimation, vector optimization, singularities and realizations of control systems, stabilization and observers. The authors are mostly young researchers from several countries of the European Union. All papers included in this volume have passed the standard refereeing process.

Guest Editors

Zbigniew Bartosiewicz Ewa Girejko

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