Control and Cybernetics
vol. **53** (2024) No. 1
pages: 3-4

CONTENTS

Janusz Kacprzyk: 5
Foreword

Guest Editors: 9
Introduction

Eduardo Casas and Karl Kunisch: 11
Temporally sparse controls for infinite horizon semilinear parabolic equations with norm constraints

Michel C. Delfour: 43
Shape and topological derivatives as Hadamard semidifferentials

Andrei V. Dmitruk and Nikolai P. Osmolovskii: 77
On the maximum principle when the endpoints of the optimal trajectory lie on the state boundary

Xuan-Nam Do, Valentin Calisti 109
and Jean-François Ganghoffer:
2D mechanical metamaterials synthesized by topology optimization in the different symmetry classes

Nico Goldammer, Volker H. Schulz and Kathrin Welker: 141
Gâteaux semiderivative approach applied to shape optimization of obstacle problems

Martin Gugat: 163
New Lyapunov functions for systems with source terms

Antoine Laurain: 189
Analysis and application of a lower envelope method for sharp-interface multiphase problems

Marta Lipnicka, Artur Lipnicki and Andrzej Nowakowski: 231
Sufficient approximate optimality condition for the inverse one-phase Stefan problem

Pavel I. Plotnikov: 247
Caratheodory theory for the Bernoulli problem

Yixin Tan, Lingkang Yan and Shengfeng Zhu: 283
Structural topology optimization in linear and nonlinear elasticity using a discontinuous Galerkin finite element method