

CONTENTS

Boris Andrievsky and Alexey Andrievsky

Experimental evaluation of synchronization-based data transmission scheme for multipendulum setup 5

Elena V. Goncharova and Maxim V. Staritsyn

Optimal control of hybrid systems with polynomial impulses 11

Johanne Hizanidis, Nikos E. Kouvaris, and Chris. G. Antonopoulos

Metastable and chimera-like states in the C.elegans brain network 17

Sergei Plotnikov

Controlled synchronization in two FitzHugh-Nagumo systems with slowly-varying delays 21