

## CONTENTS

<i>Alexander Aleksandrov and Nadezhda Kovaleva</i> Diagonal Riccati stability of a class of time-delay systems .....	167
<i>Pavel Bazhanov, Elena Kotina, Dmitri Ovsyannikov, and Victor Ploskikh</i> Optimization algorithm of the velocity field determining in image processing .....	174
<i>Alexandra Dokuchaeva and Valentin Emelyanov</i> Stochastic simulation approach for nonlinear systems with uncertain input signals .....	182
<i>Oleg I. Drivotin</i> Second variation of trajectory of a controlled dynamical system .....	188
<i>Eugenie L. Eremin and Evgeniy A. Shelenok</i> Nonlinear-periodic control system for non-affine multi-connected plant with state delay .....	195
<i>Igor B. Furtat and Artem N. Nekhoroshikh</i> Investigation of electric generator robust algorithm under measurement noises .....	204
<i>Anna Golovkina, Dmitri Ovsyannikov, and Sorin Olaru</i> Performance optimization of radioactive waste transmutation in accelerator driven system .....	210
<i>Eugene S. Ostropiko and Alexander I. Razov</i> Functional properties of TiNi conical working elements in the holding and release device .....	216
<i>Victor Ploskikh and Elena Kotina</i> Quantitative analysis of gated myocardial perfusion SPECT .....	220
<i>Sergey M. Polozov and Vladimir I. Rashchikov</i> Longitudinal motion stability of electrons inside the plasma channel of LPWA .....	228