

CONTENTS

<i>Daria Arslanova, Alexey Firsov, Vladimir Kukhtin, Eugeny Lamzin, Mikhail Larionov, Andrey Nezhentzev, Dmitri Ovsyannikov, Igor Rodin, Nikolay Shatil, Sergey Sytchevsky, Vyacheslav Vasiliev, and Anatoly Zaitsev</i> Power-efficient low-stray field hybrid magnets for MAGLEV technology	117
<i>Nikolay Granichin, Grigory Volkov, Yuri Petrov, and Marina Volkova</i> Randomized approach to determine dynamic strength of ice	122
<i>Ngo Le Huy Hien, Luu Van Huy, and Nguyen Van Hieu</i> Artwork style transfer model using deep learning approach of dynamical systems with impact interactions	127
<i>Nikolay Litvinov</i> Control of global variables for identical and non-identical Josephson junctions arrays	138
<i>Simona Olmi, Carl H. Tetz, and Eckehard Schöll</i> Material optimization and dynamic materials	143
<i>Alexander Oshchepkov</i> Modeling the control processes of the size population of microorganisms using modulated microwave	155
<i>Tran Dang Khoa Phan</i> A multi-stage algorithm for image denoising based on PCA and adaptive TV-regularization	162
<i>Victor Ploskikh and Elena Kotina</i> Challenges of gated myocardial perfusion SPECT processing	171
<i>Cutberto Romero-Meléndez David Castillo-Fernández</i> A stochastic controlled Schrödinger equation: convergence and robust stability for numerical solutions ...	178
<i>Victor Ploskikh and Elena Kotina</i> Challenges of gated myocardial perfusion SPECT processing	185
<i>Denis Uzhva and Oleg Granichin</i> Cluster control of complex cyber-physical systems	191
<i>Petr A. Velmisov and Andrey V. Ankilov</i> Mathematical modeling in problems about dynamics and stability of elastic elements of wing profiles	201