

CONTENTS

<i>Leonardo Acho</i> Electronic control design for a DC motor based on the 1-bit analog-to-digital converter structure	315
<i>Sergey Borisenok</i> Control on epileptiform behavior in the mesoscopic-scale model	320
<i>Ali Deeb, Vladimir Khokhlovskiy, and Viacheslav Shkodyrev</i> Enhancing evolutionary controllers with a rejection-based genetic algorithm	325
<i>Oleg Granichin, Pavel Shcherbakov, Olga Granichina, Stepan Trofimov, and Ming Yuchi</i> Towards calibration of circular ultrasound transceiver arrays	334
<i>Irina Len, Victoria Erofeeva, Oleg Granichin, and Vlada Smetanina</i> Parameter estimation using compressed sensing under unknown-but-bounded noise	342
<i>Hoang Duc Long</i> Adaptive neural operator control of nonlinear cascade systems with rate-dependent hysteresis interconnections	350
<i>Ruimin Ma, Xinran Hao, Dongfang Qi, Yuyi Zhang, Shixiang Zhao, and Yuri Petrov</i> Constitutive equations based on neural network for HSLA-65 with SHAP	356
<i>Boris Melnikov, Bowen Liu, and Dang Van Vinh</i> The planar triangulation with noisy data: the dynamic changing the order of points	368
<i>Mokhtar Ouamri</i> Exploiting geometric symmetry in chaotic maps for next-generation pseudo-random number generator design	375
<i>Alexander Ovsyannikov</i> On simultaneous optimization of program and disturbed motions and optimality conditions in the form of Pontryagin maximum principle	382
<i>Shamil Kh. Ramadhan, Firas Abdulrahman Yousif, and Firas Shawkat Hamid</i> Enhancing user experience with hand gesture volume control: overcoming challenges of camera distance ..	387
<i>Yevgeny Somov, Sergey Somov, Sergey Butyrin, Tatyana Somova, and Alexey Dobrosotskikh</i> Energy-saving control of geostationary satellite during long-term mothballing	395
<i>Oleg Shagniev</i> Vibration mechatronic setup with technologic equipment: modeling and reduced energy control	404

Bashar Suliman

Speed-gradient energy control of two pendulums with two-sided constraints 410

Dmitry Tomchin and Dmitry Gorlatov

Control of a two-rotor vibration system with non-identical rotors and an elastically attached mass 419

Julia Zaiceva, Dmitry A. Bushuev, and Boris Andrievsky

Virtual testing of vibration mechatronic setup with technological accessories 426