

CONTENTS

<i>Lyubov E. Aksenova, Kirill D. Aksenov, Anton V. Prisyazhnyuk, Victoria V. Myasnikova, and Andrey V. Krasov</i>	
Development of a retinal pathology classification model using transfer learning and open datasets	95
<i>Vanya Barseghyan, Svetlana Solodusha, and Evgeniia Markova</i>	
Optimal boundary control of string vibrations with intermediate values of the deflection function under minimization of the boundary energy integral	103
<i>Anastasia A. Grishchenko, Anastasia S. Dzhafarova, Elena M. Suleymanova, Marina V. Sysoeva, and Ilya V. Sysoev</i>	
Nonlinear analysis of interhemispheric connectivity in the pentylenetetrazol rat model of spike-wave discharges	116
<i>Anitha J, Sreenivasa Chakravarthi Sangapu</i>	
Unified intelligence in ophthalmology: a comprehensive review of a single framework for predicting multiple eye diseases	127
<i>V. Kavitha, Seelam Sunitha Devi, and Balla Chandra Sekhar</i>	
Roughness effects on two-dimensional turbulent convection: heat transport, flow reversals, and machine learning analysis	137
<i>Ba Huy Nguyen, The Dong Dang, Igor Furtat, Pavel Gushchin, Anh Quan Dao, Tung Duong Mai</i>	
Control of direct current motors with guaranteed speed maintenance in given bounds	148
<i>Mokhtar Ouamri</i>	
Cubic trigonometric chaotic systems for high-quality pseudo-random number generation	154
<i>Helder Rojas, Nilton Rojas, J. B. Espinoza, and Luis Huamanchumo</i>	
A simple algorithm for output range analysis for deep neural networks	162
<i>Natarajan Shriethar</i>	
Limit cycles and period-doubling bifurcations in a van der pol–type triple pendulum with spring coupling	174
<i>Andrey Tsyganov and Julia Tsyganova</i>	
Parameter identification of discrete-time linear stochastic systems based on decentralized square-root information filtering	191
<i>Yuyi Zhang, Andrey Logachov, Aleksandr Smirnov, and Nikita Kazarinov</i>	
Artificial neural network surrogates for impact problem simulations	200