

CONTENTS

Special section

Kulinowski K., Wołoszyn M., Radecka M. and Spisak B.J. The effect of elastic and inelastic scattering on electronic transport in open systems	427
Kołaczek D., Spisak B.J. and Wołoszyn M. The phase-space approach to time evolution of quantum states in confined systems: The spectral split-operator method	439
Harmati I.Á. and Kóczy L.T. On the convergence of sigmoidal fuzzy grey cognitive maps	453
Łukasik S., Lalik K., Sarna P., Kowalski P.A., Charytanowicz M. and Kulczycki P. Efficient astronomical data condensation using approximate nearest neighbors	467
Bodyanskiy Y.V. and Tyshchenko O.K. A hybrid cascade neuro-fuzzy network with pools of extended neo-fuzzy neurons and its deep learning	477
Rakovská E. and Hudec M. A three-level aggregation model for evaluating software usability by fuzzy logic	489
Wielgosz M. and Skoczeń A. Using neural networks with data quantization for time series analysis in LHC superconducting magnets	503

Regular section

Bartoszewicz A. and Adamiak K. A reference trajectory based discrete time sliding mode control strategy	517
Napp D., Pereira R., Pinto R. and Rocha P. Realization of 2D (2,2)-periodic encoders by means of 2D periodic separable Roesser models	527
Rodríguez C., Aranda-Escolástico E., Guinaldo M., Guzmán J.L. and Dormido S. Event-based feedforward control of linear systems with input time-delay	541
Ettouil R., Chabir K., Sauter D. and Abdelkrim M.N. Synergetic control for HVAC system control and VAV box fault compensation	555
Janczak A. and Korbicz J. Two-stage instrumental variables identification of polynomial Wiener systems with invertible nonlinearities	571
Jankowski N. and Linowiecki R. A fast neural network learning algorithm with approximate singular value decomposition	581
Rutkowski T., Łapa K. and Nielek R. On explainable fuzzy recommenders and their performance evaluation	595
Gao D., Liu J., Wu R., Cheng D., Fan X. and Tang X. Utilizing relevant RGB-D data to help recognize RGB images in the target domain	611