

CONTENTS

Infocommunication systems and technologies

- 1 Medvetskyi M., Beshley M., Beshley H.**
Enhancing video quality in wireless software-defined networks using multi-connection
- 12 Babich Yu., Bahachuk D., Bukata L., Hlazunova L., Shnaider S.**
Digital entities communication within a blockchain-enabled intelligent transport system
- 20 Odegov N., Babich Yu., Bahachuk D., Kochetkova M., Petrovych J.**
Sum criteria for the task of testing the independence of random numbers sequences
- 33 Mrak V.**
Face recognition methods in video surveillance systems using machine learning
- 43 Hordiichuk-Bublivska O.**
Investigation of distributed matrix factorisation efficiency in the industrial systems
- 53 Zakhazhevskiy O.**
Methodology of building protected special purpose information communication networks
- 64 Pleskanka M.**
The quality of service parameters Qos improvement in Cdn network with edge compute module
- 74 Beshley M., Kochan O., Beshley H., Shpur O.**
Methodology for measuring and enhancing the quality of vovi-fi and volte voice communication on critical infrastructure objects
- 88 Berkman L., Otrokh S., Ruzhynskiy V., Olienieva K.**
The optimization of computer equipment during the modernization of the unified system of centralized control and measurements of the SKS-7 network using the resources of the data processing center

- 95 Pyrih Ya., Klymash M., Pyrih Yu., Lavriv O.**
Genetic algorithm as a tool for solving optimisation problems

Radioelectronics

- 108 Oborzhytskyy V., Protasevych V.**
Microstrip dual-band transformer for complex impedances with different values in frequency bands
- 116 Volovyk A.**
The state vector optimal estimates for discrete stochastic systems with uncertain perturbations and noise
- 126 Volochiy B., Onishchenko V., Ozirkovskyy L.**
Software analytical stochastic model of operational functional behavior of the electronic complex for detecting unmanned aerial vehicles
- 150 Bobalo Yu., Bondariev A., Budaretskyi Yu., Strykhalyuk B., Oliinyk M.**
Investigation of centimeter and millimeter range trajectory measurements
- 158 Fabirovskyy S., Storozh V., Solomko A.**
Research and development of a high-precision direction finder for radio emission sources detecting
- 170 Romanyshyn Yu., Yelmanov S., Andrukhiv T., Teglivets O.**
Image quality assessment by convolutional neural network using the tid2013 database

Electronics and engineering

- 180 Kuzyk R., Ilin O., Yaremchuk I.**
Graphene – gold grating-based structure to achieve enhanced electromagnetic field distribution
- 187 Melnykov S., Bulavinets T., Stakhira P., Yaremchuk I.**
Simulation of plasmon properties of copper monosulphide particles in the nir range