CONTENTS

- 1 Botchkaryov A. A method for decentralized control of adaptive data collection processes in autonomous distributed systems
- 8 Botchkaryov A. Autonomous decentralized computer network monitoring system based on software agents
- 20 Dementiev M., Lashko O. Algorithm for primary object recognition in the warehouse management system
- 29 Dzelendzyak U., Pazyniuk M. Aerial vehicles detection system based on analysis of sound signals
- **36 Ilnytskyi R., Karpa R.** A computerized energy management system for a smart home
- 50 Kushnir D. Methods of tracking an arbitrary number of objects in real-time on a mobile platform
- **60** Lynnyk M., Nakonechny A., Methods and algorithms of complexing images and thermal signals
- 72 Mychuda Z., Mychuda L., Yelisieieva H., Modeling the influence of components leakage currents on the accuracy of the recurrent LADCS
- 79 Obshta A., Buhaiets V. Cross-platform software system for the logistics of humanitarian services

89 Puida V.

Device for controlling parameters of accumulator batteries and the corresponding direct current network

96 Puida D.

Modification of a thread pool algorithm with multiple task queues

103 Sovyn Ya., Khoma V., Opirskyy I.

Minimization of BITSLICED-representation of $4\!\!\times\!\!4$ S-Boxes based on ternary logic instruction

114 Kharchenko M., Paraliukh I., Karpa R.

A smart system for managing the economic operation of a solid fuel boiler

125 Surkov Y., Shpak O.

Research of the parameters of the modern climate control system in office premises

137 Kharchenko O., Klushyn Y.

Specialized software platform for analysis of information in data stores

149 Shykhmat A., Veres Z.

Selection of protocols for data transmission from Internet of things devices to cloud providers

160 Shpak O., Babyuk D.

Research of the technology of using solar panels for charging electric vehicles

172 Yarkun R., Paramud Y.

Features of algorithmic and software tools for framing fuzzy images

182 Yatskiv O., Klushyn Y.

Algorithmic and software tools for automatic installation and starting of utilities in the Windows environment