

## CONTENTS

<i>Bachynskyy R.</i> Secret keys protection method for microcontrollers, based on special hardware blocks using.....	3
<i>Berezko L., Sokolov S.</i> Peculiarities of instrumental means biomedic cyberphysic system .....	8
<i>Bomchyk O., Paramud Y.</i> Computer system management by multiple channel lighting equipment.....	15
<i>Borodii I., Paramud Y., Savyak V.</i> Principles of constructing a software system of the aggregated data formation.....	25
<i>Vavruk E., Kushnir D.</i> Mobile system for text recognition and translation with using microsoft cognitive ocr.....	33
<i>Vavruk E., Mozil Z.</i> Selection of optimal path finding algorithm for data transmittion in distributed systems.....	42
<i>Havano B.</i> Problems of privacy and security in cyber physical systems of intellectual houses.....	49
<i>Golembo V., Melnikov R.</i> Organization of work for a group of drones.....	56
<i>Elias R., Hlukhov V., Rahma M., Zholubak I.</i> Concurrent error detaction of devices for extended galois fields elements processing.....	64
<i>Klushyn Y.</i> Software implementation of mathematical models, methods and algorithms for estimating the time of execution of complex software complexes in multiprocessor computer systems.....	73
<i>Kovalchuk A., Lotoshynska N.</i> Encryption and decryption of grayscale and color images.....	82
<i>Melnyk A.</i> Combining the models of computation by the multitype identifiers of the computer facilities components.....	88
<i>Paramud Y., Yarkun V.</i> Method of image symbol recognition on the basis of convolutional neural network.....	96
<i>Popovych B.</i> Computer verification of gao assumption, related with obtaining of high order elements in finite fields.....	106
<i>Puyda V.</i> Special processor for operative control of parameters in real time.....	111
<i>Salo A., Zahorniak V.</i> Means of vending cyber physical system administration module optimization .....	117
<i>Tymoshchuk P.</i> Work modes of impulse k-winners-take-all neural network .....	125
<i>Khomits V., Hlukhov V.</i> Tools for micro-satellite video stream lossless compression .....	130
<i>Khomuliak M., Pylhun A.</i> Control system for positioning of solar panel.....	137
<i>Yurchak I., Vyshynskiy P.</i> Applying of algorithms of fuzzy logic in systems of a smart house .....	142
<i>Yurchak I., Moskovych T.</i> Applying of genetic algorithms in the automated workload distribution system for teachers and students.....	149