

CONTENTS

- 123 Chuhai Andrii**
Cyber-Physical Modeling of Implantable Devices
for Interstitial Therapeutic Systems
- 129 Demidov Oleksandr, Honsor Oksana**
Adaptive Orchestration Mechanisms for Efficient
Serverless Collection of Heterogeneous Environmental Data
- 135 Hryha Volodymyr, Vozna Nataliia,
Mychuda Lesya, Shtaier Lidiia, Hatala Iryna**
Synthesis of Multi-Bit Pyramidal Adders on FPGA
- 141 Korostenskyi Roman, Olenych Igor**
Smart Plant Watering Using TinyML:
Water Savings through Predictive Control
- 146 Kozlovska Mariia, Piskozub Andrian**
Hybridizing Large Language Models and Markov Processes:
a New Paradigm for Autonomous Penetration Testing
- 151 Krupych Andriy, Elsts Edgars**
MQTT Latency Evaluation in Cloud-Based Spectrometer Control
- 158 Zapukhlyak Ruslan, Pavliuk Myroslav, Svyd Iryna,
Dzundza Bohdan, Dovhyi Victor, Martuniuk Vitalii,
Th. Salim ALRikabi Haider**
Analysis and Improvement of Information
Security Technologies in Distributed and Asymmetric Systems
- 163 Mshvidobadze Tinatin**
Using Routing Protocols for Efficient Operation of Ad Hoc Networks
- 168 Oberyshyn Roksolana, Popovych Roman**
High Order Units in Group Rings Specified by Finite Field
and Dihedral Group
- 173 Pavliv Andrii**
Blockchain-Based Anonymization Methods with Smart
Contract for Data Expiry:
Toward GDPR-Compliant Lifecycle Management
- 178 Rishniak Marta, Opirskyy Ivan**
Hybrid Behavioural Analysis Method for Early Detection
of Anomalous Activity in Web Applications
- 184 Shykhmat Anton, Solskyi Volodymyr**
Geospatial and Wavelet-Based Feature Fusion
for Advanced RUL Forecasting in Agricultural Machinery
- 191 Siechko Oleksiy, Kitsera Anton, Kochan Roman,
Hots Nataliya, Michalowska, Joanna**
Comparative experimental evaluation
of the error of GPS sensors: NEO-6M and Walksnail WS-M181
- 197 Sinkevych Oleh, Sokolovskyy Bohdan,
Boyko Yaroslav, Matchyshyn Zenyk**
Physics-Informed Particle Swarm Optimization
for Collision-Aware Swarm Navigation
- 202 Tsemko Andrii, Karbovnyk Ivan**
Edge-Ready Speech Separation with SuDo-TasNet
- 208 Orest Vovchak, Zenoviy Veres**
A Permission-Blockchain Framework
for Service-Level Agreements in the Cold Chain
- 214 Yatskiv Vasyl, Kulyna Serhii, Ivasiev Stepan**
Data Encryption Method Based on the McEliece Cryptosystem
and the Redundant Residue Number System
- 223 Bavdys Mykhailo, Kushnir Oleksii**
Scalable System for Automated Modeling
of Physical Processes and Experiment Management
- 229 Abramenz Kostiantyn, Hryshchak Dmytro**
Enhancing Images in Poor Lighting Conditions Through Fusion
of Optical and Thermal Camera Data
- 233 Chaplia Oleh, Klym Halyna, Babii Kateryna**
A Comparative Study of Inference Frameworks
for Node.js Microservices on Edge Devices