

CONTENTS

- 1 Alexander Chemeris, Sergii Sushko**
Analysis and Optimization of the Sizes
of the Iteration Space Tiles During the Parallelization
of Program Loop Operators
- 7 Volodymyr Dobrovolskyi**
Microprocessor with Tagged Registers
Realizing Parallelism
- 15 Yurii Hirniak, Orest Ivakhiv, Markiyan Nakonechnyi,
Roman Velgan, Oleksandr Viter**
Subsystem of CPS Information Support Organization
- 26 Yuriy Klushyn**
High-Performance Software for Designing Complex
Cyber-Physical Systems on Parallel Computers
- 33 Andrey Kupin, Rodion Ivchenko**
Methodology for the Construction
of Predictive Analysis Systems as Exemplified
by the Mining Equipment in the Big Data Environment
Using Smart Agents and Cybernetic Systems
- 44 Yuriy Shabatura, Maksim Balandin,
Bogdan Seredyuk,
Vitalii Atamanyuk**
Linear Electromechanical Generator
in the Cyber-Physical System of Selection
and Conversion of the Artillery Cannon Recoil Energy
- 51 Vadym Shkarupylo, Ravil Kudermetov, Olga Polska**
On the Approaches to Cyber-Physical Systems
Simulation