

# CONTENTS

- 1 Valeriy Bezruk, Anatolii Omelchenko, Oleksii Fedorov**  
Techniques of Random Signal Recognition for Solution to Applied Problems
- 7 Ksenia Chaban, Hanna Laba, Ihor Tchaikovskiy**  
Research on Efficiency of Telephone Networks with Different Structures
- 17 Vasyl Malyar, Orest Hamola, Taras Ryzhyi**  
Research into Influence of a Capacitor Connected in Series to an Asynchronous Motor on the Motor Operation
- 21 Yaroslav Matviychuk**  
Induction Motor Macromodel Based on Experimental Data
- 25 Serhiy Meshaninov**  
Estimation of Operation Reliability of Control Electronic Systems With the Use of Maximum Product Problem
- 29 Andriy Myts**  
Hardware-in-the-loop Simulation of 3D-Coordinate Determination Subsystem by Using Modified Method of Stereopairs
- 33 Piotr Olszowiec**  
Unconventional Methods of Analysing Diode Rectifiers with Asymmetrical Supply
- 37 Roman Pasichnyk**  
Modelling of Resources Accumulation and their Operational Control in Biotechnological, Biomedical and Web Information Systems
- 47 Iryna Pasternak, Yuriy Morozov**  
Modular Network Interface for Distributed Information Navigation Systems
- 57 Nataliya Porplytsya, Mykola Dyvak, Taras Dyvak**  
Method of Structure Identification for Interval Difference Operator Based on the Principles of Honey Bee Colony Functioning
- 69 Volodymyr Shkliarskyi, Yuriy Balaniuk, Volodymyr Vasyliuk, Borys Hudz**  
Interactive Operation of Scanning Television Optical Microscope
- 77 Nataliya Shydlovska, Serhiy Zakharchenko, Oleksandr Cherkaskyi**  
The Influence of Electric Field and Temperature of Hydrosols of Metals' Plasma-erosive Particles on their Resistance and Permittivity
- 85 Vasyl Tchaban**  
Derivatives of Parameters Matrices
- 89 Dmytro Verlan, Nataliia Kostian**  
Three-Input Integral Model of the Recovery Problem of Antenna Signals with Interference
- 95 Volodymyr Voitiuk, Dmytro Trushakov, Serhiy Rendzinyak**  
"Fringing" Current Influence on Results of Measuring Cross-Section Area of Liquid Flow by a Conductive Sensor
- 99 Valeriy Zhuikov, Kateryna Osypenko**  
Operation Features of the Converters of an Autonomous Power Supply System
- I Preparation of Papers for CPEE**
- IV Вимоги до оформлення статей для подання до друку в журнал CPEE**
- VII CALL FOR PAPERS – CPEE-2015**
- IX CALL FOR PAPERS – AEECT-2015**
- X CALL FOR PAPERS – DINWC-2015**
- XI CALL FOR PAPERS – MIXDES-2015**
- XIII CALL FOR PAPERS – NEWCAS-2015**
- XV CALL FOR PAPERS – PATMOS-2015**
- XVI CALL FOR PAPERS – PRIME-2015**
- XVII CCALL FOR PAPERS – SmartGridComm-2015**
- XVIII Свідоцтво про реєстрацію**
- XIX Список друкованих (електронних) періодичних видань, що входять до Переліку наукових фахових видань України**