

CONTENTS

AEROSPACE SYSTEMS FOR MONITORING AND CONTROL

1. *Wang Bo, Volodymyr Kharchenko, Denys Vasyliiev*
Selection of Aircraft Conflict-Free Trajectories Using Different Convolutions of Vector Optimality Criterion 7
2. *Volodymyr Kharchenko, Andrii Grekhov, Ismail Ali*
Influence of Nonlinearity on Aviation Satellite Communication Channel Parameters 12
3. *Wang Bo, Volodymyr Kharchenko, Yuriy Chynchenko*
Estimation of Effect of Uncertainty Factors on Safety of Air Traffic Flows in Terminal Control Areas 22
4. *Ludwig Ihnytskyi, Leonid Sibruk, Daryna Polishchuk*
Antenna of Radio Control 28
5. *Valerii Azarskov, Leonid Blokhin, Olga Ermolaeva*
Structure Identification of Non-Linear System “Moving Object and Servo Drive” under Stochastic Disturbances 34
6. *Maryna Mukhina*
Unified Template of Georeferenced Images for Visual Correlation-Extreme Navigation System 42

MODERN AVIATION AND SPACE TECHNOLOGY

7. *Hennadii Zaionchkovskiy, Volodymyr Butko, Taras Tarasenko*
Pressure Oscillations in Transient Processes of Hydraulic Systems with Variable Displacement Pumps 49
8. *Kostjantin Kapitanchuk, Pavlo Grekov, Mykola Bohdanov, Galina Nikitina*
Finite Difference Method for Calculating of the Gas Flow in a Subsonic Gas Ejector 55
9. *Julij Kryvenko*
Remote Ways to Control Water Depth on the Runway Surfaces 61

BIOTECHNOLOGY

10. *Oksana Gorobets, Svitlana Gorobets, Vasyl Chekhun, Oleksandr Medviediev, Oleksandr Berezin, Oleksandr Garkavenko*
Fractal Dimension Of The Resistant And Sensitive To Doxorubicin Breast Cancer Cells, Exposed In The Magnetic Field 67

CHEMMOTOLOGY AND CHEMICAL TECHNOLOGY

11. *Sergey Levchenko, Volodymyr Ledovskykh*
Spark machining for steel surfaces to improve paint coatings quality 72
12. *Leonid Zheleznyi*
Thermo-oxidative stability of high-temperature greases 77

ECONOMIC DEVELOPMENT STRATEGY*13. Wang Bo*

Logistic Approach to Interaction between an Airline and a Fuel Supplier..... 83

PROFESSIONAL EDUCATION*14. Natalia Drobysheva*

The Role of Terminology in the Training of Aviation Specialists 86

INDEX OF THE ARTICLES, PUBLISHED IN 2015 89

INSTRUCTIONS FOR AUTHORS 93