

CONTENTS

INFORMATION SYSTEMS AND TECHNOLOGIES

RNN implementation for streaming data analysis and prediction

Ilin M. O., Oleshchenko L. M...... 6

Graphic presentation of information when performing agricultural tasks

Kyrychek H. H., Bakhmetiev V. V., Tiahunova M. Yu...... 11

Server configuration software optimization
for improving web application performance

Oleshchenko L. M., Burchak P. V...... 15

APPLIED MECHANICS

The influence of the rate of deformation on the technological effort
of the process of hot reverse extrusion with the distribution
of a hollow product from low-carbon steel

Sytyk S. V., Lipodat V. Ye...... 19

MATERIALS SCIENCE

Experimental studies of the effect of increasing fineness of deformation
on microstructures and mechanical properties of cold-rolled pipes

Holovchenko O. P., Hrigorenko V. U., Alekseyenko S. V...... 24

INDUSTRIAL ENGINEERING

Mechanism for cutting root folds in book blocks with plane-parallel movement

Makatora A. V., Makatora D. A. 29

METALLURGY

Use of the temperature field calculation program for the selection
of optimal modes of thermal treatment of metal products

Moskalenko A. A., Protsenko L. M., Razumtseva O. V...... 32

ELECTRIC POWER ENGINEERING, ELECTRIC ENGINEERING AND ELECTROMECHANICS

A systematic approach to the design of electrical equipment
of small unmanned surface vessels

Nadtochii V. A...... 36

Study of the key interrelationships and dynamics of the impact of global trends on the speed and directions of development of renewable energy sources in the world and in Ukraine in particular Trachuk A. R.	40
Power distribution of an induction machine in motor and generator modes of operation Shurub Yu. V.	43
HEAT POWER ENGINEERING	
Gas turbine installations as a means of increasing the maneuverability of CHP plants Teslenko O. I., Khodakivskiy V. O.	48
AUTOMATION AND TOOL ENGINEERING	
Influence deformation of robotic mobile platforms elements on the choice parameters of their automatic regulators Allakhveranov R. Yu., Oleksandrov Yu. M., Nevliudova V. V.	52
Measurement of parameters by the non-contact method of electrical conductivity of thermoelectric materials Danalakii O. G.	56
Development and research of the software and hardware complex for controlling the lighting and alarm systems of the smart building Nazarova O. S., Kazurova A. Ye., Bogunov R. V.	60
Walking mobile robot for maintenance of park trees Polishchuk M. M., Tkach M. M.	64
The system of automating the operation of a dust-capturing installation with control of its main technological parameters in the conditions of chemical production Pukhalska O. M., Chesnova H. O.	69
CHEMICAL TECHNOLOGIES AND ENGINEERING	
Study of the quality characteristics of fabrics dyed with active dyes using treated wastewater Koval M. G., Holub A. V.	73

ARCHITECTURE AND CONSTRUCTION

Relationship of civil engineering and heat production systems
with constructive and architectural solutions of public buildings

Devterov I. V., Zinych P. L. 78

“Laboratory of the future” – a new vision of Ukraine

Petrykovska A. A. 82

Restoration of residential, public, industrial buildings
and architectural monuments: introduction to the problem

Yashchenko O. F., Kubanov R. A. 85

TRANSPORT

Modern underwater transport technologies and tasks of their automation

Nadtochy A. V. 89

GENERAL ISSUES OF ENGINEERING SCIENCES

Approach to calculation the productivity of repair and restoration units
in combat conditions

Slusarenko M. O., Solomitsky O. I. 94