

CONTENTS

SECTION 1. INFORMATION SYSTEMS AND TECHNOLOGIES

Artificial intelligence of non-player characters

Kyrychek H. H., Nikitchenko S. O., Shlapik O. A. 5

Digital models as a tool for predicting the results of combat operations

Murashov I. Yu., Hnatov I. G., Rusanov O. Yu. 10

Hybrid machine learning model implementation for traffic prediction
in software-defined networks

Oleshchenko L. M. 13

Development of a universal software tool for assessing the impact
of military operations on landscape and urban areas using cloud technology

Solona I. R. 17

SECTION 2. APPLIED MECHANICS

Study of component loads on the screw conveyor auger shaft

Chasov D. P., Shpalyarenko S. A., Shpalyarenko O. A. 22

SECTION 3. INDUSTRIAL ENGINEERING

Modeling of kernel yield during mechanical dehulling of industrial hemp seeds
in a centrifugal device

Petrachenko D. O. 26

SECTION 4. ELECTRIC POWER ENGINEERING

Interdisciplinary approach to teaching electrical engineering
through programming

Ushkarenko O. O. 30

SECTION 5. HEAT POWER ENGINEERING

Analytical studies of heating processes of ceramic products

Logvynenko D. M., Pylypenko R. A. 35

SECTION 6. AUTOMATION AND TOOL ENGINEERING

Processing statistical data of meteorological parameters
using artificial intelligence

Holyk O. P., Nerush O. A., Korsikov O. V. 39

**SECTION 7. CHEMICAL TECHNOLOGIES
AND ENGINEERING**

Chemistry as a Tool for Achieving the Sustainable Development Goals:
Technologies, Materials, Energy

Nadala O. S. 43

SECTION 8. FOOD TECHNOLOGIES

Intensification of drying of thermolabile materials using heat pump cycles

Dabizha N. O., Husarova O. V., Malashchuk N. S. 46

SECTION 9. ENVIRONMENTAL TECHNOLOGIES

Processing of ash and slag waste from power plants as a necessary element
of the implementation of European environmental legislation in Ukraine

Sezonenko O. B., Gonchar V. P., Alekseenko V. V. 51

SECTION 10. ARCHITECTURE AND CONSTRUCTION

Campus of the Technical University: barrier-free environment, ease of use

Agieieva G. M. 56

Regulatory aspects of integration of electric charging stations
into the filling station structure

Zyhun A. Yu., Boiko D. D. 60

Research on noise characteristics of technological processes
in road construction

Matyash V. M., Shapovalov O. V., Hanzha V. P. 64

SECTION 11. TRANSPORT

Key Issues in Studying Urban Transport Behaviour
in Ukrainian Cities During Wartime

Kopytkov D. M., Shvets-Bohdanov A. O. 69