CONTENTS

1 Korpyljov D., Zdobytskyi A., Marakutsa U., Tomyuk V., Panchak R.

Interactive system of surface water monitoring using IoT technologies

9 Kolesnyk K., Łukaszewicz A., Dutka V., Zahoruiko D., Vasylyshyn B.

Automated design of printed circuit boards made by electronic computer —aided design (CAD) with the next using in CNC- machine

17 Sokolovskyy Ya., Sinkevych O.

The use of cellular automata in the simulation of wood drying processes in a wood drying chamber of periodic action

33 Kosobutskyi P.

Physical foundations of quantum informatics: from quantum mechanics through quantum computing to quantum cryptography

49 Andrushko A. Lobur M., Iwaniec M.

Predictive maintenance – a major field for the application of computer aided systems

57 Kosobutskyy P., Oksentyuk V.

New regularities of segment division according to the golden ratio

71 Khakhanova G.V.

Vector models for analysis of logical functions of society management

81 Sokolovskyy Ya., Bordun M., Levkovych M.

> Development of software and algorithmic security for forecasting the cryptocurrency course using fractal analysis methods

95 Sokolovskyy Ya., Yarkun V., Levkovych M., Ratynchuk D.

Software and algorithmic provision of parallel calculation of non-isothermal moisture transfer based on the apparatus of fractional derivatives

107 Melnyk M., Pytel K., Orynchak M., Tomyuk V., Havran V.

> Analysis of artificial intelligence methods for rail transport traffic noise detection