

CONTENTS

RADIO ENGINEERING AND TELECOMMUNICATIONS

Korchynskij V.M., Kozar I.O.

APPLICATION OF SIGNAL COMPRESSION TO CONTROL DATA RATES
IN ADDITIVE NOISE TELECOMMUNICATION CHANNELS.....1

Saiko V.G., Narytnyk T.M.

MODEL FOR ENSURING THE FUNCTIONING OF INTEGRATED
INFRASTRUCTURE BASED ON A DRONE NETWORK.....5

INFORMATICS, COMPUTER ENGINEERING AND AUTOMATION

Bohdan H.A., Hlushchenko M.O.

GENERAL TENDENCIES IN CONSTRUCTING AUTOMATED AIR QUALITY MONITORING
SYSTEMS AT INDUSTRIAL ENTERPRISES.....12

Vasylenko V.M., Karpenko M.I., Putsyk M.S., Guida O.G.

DEVELOPMENT OF A MOBILE APPLICATION DESIGN TO IMPROVE THE QUALITY
OF THE EDUCATIONAL PROCESS.....18

Voloshyn V.S., Omelianiuk A.A.

APPLICATION OF EIEWS SOFTWARE TECHNOLOGIES
TO IMPROVE INFORMATIZATION OF THE INSURANCE MARKET OF UKRAINE..... 25

Heiko O.O.

ENSURING CORRECTNESS OF COMPUTER MODELS THROUGH VERIFICATION
AND VALIDATION.....30

Derman V.A., Kruhliak H.V.

MATHEMATICAL MODEL FOR SELECTING PRIORITIES FOR INDICATORS
OF THE MONITORING SYSTEM OF TECHNOGENIC, NATURAL
AND ENVIRONMENTAL FACTORS.....38

Zherebets O.M.

PERFORMANCE ANALYSIS OF LORA, BLE AND WIFI SENSORS
BASED ON THE SYSTEM OF SMART THINGS..... 45

Zavgorodnii V.V., Zavgorodnya A.A., Marchenko V.A., Baranenko Yu.V.

DEVELOPMENT OF A MATHEMATICAL MODEL FOR ASSESSING THE RELIABILITY
OF WEBSITES.....52

Kondratets V.O., Matsui A.M., Fedotova M.O., Khlebnikov M.V.

MATHEMATICAL MODELLING AND COMPOSITION METHODS IN ENERGY-EFFICIENT
ORE MILLING AND CLASSIFICATION MANAGEMENT METHODOLOGY58

Kulykovska N.A., Rudenko V.V., Timenko A.V., Shkarupylo V.V.

INVESTIGATING BUILD TIMES FOR APPLICATIONS BUILT ON MODERN
DEVELOPMENT STRATEGIES.....65

Marchuk G.V., Levkivskiy V.L., Marchuk D.K., Mukovoz V.S.

RESEARCH AND ANALYSIS OF CHATBOT CAPABILITIES WITH ARTIFICIAL
INTELLIGENCE CHATGPT..... 71

Movchan K.O.

CYBERSECURITY RISKS IN THE AGE OF ROBOTICS.....79

Oleshchenko L.M., Moshenskiy A.O.

HARDWARE AND SOFTWARE SYSTEM OF ENVIRONMENTAL INDICATORS MONITORING
AND ANALYSIS BASED ON ESP8266 CONTROLLER.....84

Pakhomova V.M., Kvochka M.Yu.

DEFINITION OF NETWORK ATTACKS OF PROBE CATEGORY BY MEANS
OF MULTILAYER NEURAL NETWORK.....93

Polischuk S.M.

THE SPOOFING THREAT LANDSCAPE: TRENDS, VULNERABILITIES
AND FUTURE RESEARCH DIRECTION.....99

Sikora O.V. INFORMATION TECHNOLOGY SUPPORT DECISION-MAKING.....	104
Statsenko D.V., Statsenko V.V., Zlotenko B.M., Romaniuk I.O. USING INFORMATION AND COMMUNICATION TECHNOLOGIES FOR INFORMATION PROTECTION.....	111
Trofymenko O.H., Prokop Yu.V., Chepurna O.Ye., Balandina N.M. THE ROLE OF MATHEMATICS IN DIFFERENT AREAS OF SOFTWARE DEVELOPMENT.....	117
Yaroyvi O.V., Zavgorodnii V.V. DEVELOPMENT OF THE STRUCTURAL DIAGRAM OF THE MOBILE AGENTS MANAGEMENT SYSTEM.....	124
POWER ENGINEERING	
Pantielieieva I.V., Shmatko N.M., Glushko A.V. TYPES OF ENERGY INNOVATIONS THAT ARE DEVELOPING.....	129
Siryk A.O., Yevtushenko O.V. THE INFLUENCE OF EMISSIONS FROM BOILER UNITS OF FOOD INDUSTRY ENTERPRISES ON ATMOSPHERIC AIR QUALITY.....	135
Solomakha A.S., Strynada P.S. HYDRODYNAMICS FOR ANTI-FLOW FILMS OF LIQUID AND GAS IN A VERTICAL PIPE.....	144
Yaroshevych M.V., Solomakha A.S. PECULIARITIES OF USING WATER-FUEL EMULSION FOR CONVERTING HOUSEHOLD BOILERS TO ALTERNATIVE TYPES OF FUEL.....	151
CHEMICAL TECHNOLOGY	
Andriianova M.V., Holovenko V.O., Lin'kova O.V. DEVELOPMENT OF THE COMPOSITION OF PAINT MATERIALS USING POLYHEXAMETHYLENEGUANIDINE SALTS FOR WOOD PROTECTION AGAINST THE ACTION OF MICROORGANISMS.....	157
Bondarenko S.G., Vasylkevych O.I., Abramova A.O. ADVANCED TECHNOLOGY FOR OBTAINING BIODIESEL FUEL FROM WASTE OILS.....	163
Denysenko A.M., Cheropkina R.I. USING THE ALKALINE-SULFITE METHOD FOR PROCESSING PAULOWNIA WOOD.....	169
Drozd O.V. EXAMINATION OF DESTRUCTION OF WASTE BY MEANS OF STRUCTURAL DEGRADATION SIGNS OF MATERIALS AND PROSPECTS FOR RECYCLING.....	176
Yeremeyev I.S., Dychko A.O., Remez N.S., Kyselov V.B., Minaieva Yu.Yu., Ometsynska N.V. MEASURING, FORECASTING AND MONITORING SUSTAINABILITY OF BIOCHEMICAL WASTEWATER TREATMENT IN WAR PERIOD.....	183
Kravchenko S.O., Miroshnichenko D.V., Chebotaryov A.M., Turkina O.V., Chaplianko S.V., Priplotskiy S.I., Lebedev V.V., Hrushetsky V.O. DETERMINATION OF CAPITAL INVESTMENTS FOR RECONSTRUCTION OF COKE CHEMICAL PRODUCTION WITH COMPARISON OF COKE EXTINGUISHING TECHNOLOGIES.....	191
Movchaniuk O.M. SHOE PRESS TECHNOLOGY IN THE PAPER AND CARDBOARD MANUFACTURING.....	197
Pylypenko T.M. PHYSICAL AND CHEMICAL CHARACTERISTICS OF COSMETIC FACIAL TONIC.....	203
Spasonova L.M., Bondarchuk O.Yu., Mokienco A.V. RETROSPECTIVE ANALYSIS OF THE EFFICIENCY OF IMPLEMENTATION OF THE TECHNOLOGY OF COMBINED DISINFECTION OF DRINKING WATER WITH CHLORINE DIOXIDE AND SODIUM HYPOCHLORITE.....	207
Tolstopalova N.M. SIMULATION OF WASTEWATER TREATMENT FROM CHROMIUM (III) IONS BY FLOTATION	213

Trus I.M., Tverdokhlib M.M., Gomelya M.D., Makarenko I.M. USE OF LOW PRESSURE REVERSE OSMOSIS MEMBRANE FOR REMOVAL OF CHLORIDES FROM WATER.....	219
--	-----

TECHNOLOGY OF FOOD PROCESSING AND CONSUMER GOODS INDUSTRY

Romaschuk O.M. MULTI-CRITERIA CONTROL OF THE TECHNOLOGICAL COMPLEX OF THE SUGAR FACTORY.....	225
---	-----

TRANSPORT

Vasylenko I.V., Yaremenko V.Yu. COMPARATIVE ASSESSMENT OF INTERNATIONAL AIRPORTS' EFFECTIVENESS BY DIFFERENT MODELS.....	231
Kirsanova V.V. COMPARATIVE REVIEW OF ALTERNATIVE FUELS FOR MARINE TRANSPORT.....	236
Kunda N.T., Ohiichuk O.V. ANALYSIS OF WAREHOUSE EXPRESS DELIVERY OF CARGO IN THE INTERNATIONAL TRAFFIC	243
Kuchma O.S. PRECONDITIONS FOR RATIONAL ORGANISATION OF CARGO AIR TRANSPORT PROCESSES IN TERMS OF INTERNATIONAL INTEGRATION	251
Maliarenko D.L. CONSIDERING THE EMERGENCE OF RISKS RELATED TO CHANGES IN AIR CARGO FLOWS UNDER CONDITIONS OF UNCERTAINTY	256
Romakh V.L. FORMATION OF THE MODEL OF MANAGEMENT OF SEA PORTS.....	261
Chuiko S.P., Kravchenko O.P., Prokhorchuk M.V. ANALYSIS OF THE EFFICIENCY INDICATORS OF DETERMINING THE QUALITY OF TRANSPORTATION SERVICES BY BUSES ON URBAN ROUTES.....	266

ELECTRONICS

Osadchuk I.O., Osadchuk O.V., Osadchuk V.S. HUMIDITY SENSITIVE TRANSDUCERS BASED ON MOS STRUCTURES WITH FREQUENCY OUTPUT.....	272
--	-----

INFORMATION ABOUT AUTHORS	282
--	-----