CONTENTS

INTELLIGENT CONTROL SYSTEMS, ROBOTIC AND MECHATRONIC SYSTEMS Study of the efficiency of the metal trading organization Boiko V.O., Rybnytskyi M.V1	4
Automatic monitoring of industrial buildings for the safety of structures, adjacent installations and technological units Bondar O.V., Bespalov K.I	7
Research of automatic water level control in a tank Vinkovskyi M.S., Koyfman O.O	0
Improving the process of loading the ball mill with grinding material Kovalevets R.V., Myrna N.V., Bundza O.Z	5
Use of systems with artificial intelligence for controlling the sheet leveling machine Kovalenko A.K., Sahaida P.I	8
Comparison of the methods for determining the parameters of controlled process Koyfman O.O., Miroshnychenko V.I., Vinkovskyi M.S., Isaiev A.B 3	1
Automation of electric heating of industrial premises Kravchenko S.O., Miroshnychenko V.I	5
Application of wave chain gears in drives of technological machines Krupko V.G., Krupko I.V., Suglobov V.V	7
A system for predicting optimal mill performance to stabilize the finished product quality of the ore dressing factory Nikulin V.O., Miroshnychenko V.I	1
Digital technical means of automation of distribution networks Omelnytskyi Yu.A4	3
The automation system of the heating unit of the plant management premises and adjacent buildings Okhrimenko S.S., Koyfman O.O	6
Prospects for the use of drones in the mining industry Polovynkyn V.I	9

An overview of automated control systems cos φ in the 6 kV electricity network Razzhyvin O.V., Prasol V.A	51
Peak loads reduction in the energy system by adjusting the power consumption modes of coal mines Rukhlov A.V., Rukhlova N.Yu	56
Automated system for vibration monitoring and diagnostics of a coke oven pusher Simkin O.I., Zolotarov D.G.	60
Use of modern automation technologies to improve personnel safety, reliability and efficiency of the coke oven gas pressure stabilization unit Simkin O.I., Korotysh V.Yu.	64
Analysis of the conditions for modernization of the blast furnace hot blast stove block control system Stetskyi V.V., Miroshnychenko V.I	67
Information security of rental management systems Subotin O.V	68
Automation of drying drum Uvarov M.O., Miroshnychenko V.I	72
Study of gripper productivity and safety bridge cranes Kharchenko I.V., Holotiuk M.V	74
Improving the efficiency of rock excavator electrical equipment and quarry power supply lines in the conditions of mining and ore enterprises of the Kryvyi Rih basin Khilov V.S.	77
Automation of glass glue filling unit of sewing press Cherepashchuk G.O., Potylchak O.P.	80
Improvement of control methods for pallet cars of the lurgi roasting machine Shcherbyna O.V., Bundza O.Z.	83
·	

INNOVATIONS IN CIVIL AND OCCUPATIONAL SAFETY Improvement of the system for ensuring safe working conditions for employees of the wagon farming Andrushchenko O.O
Rope transport system Bartashevskyi S.Ye., Denischenko O.V
Combating industrial dust at mining enterprises Bondarchuk R.D
Rik-oriented system of management of occupational safety of a mining and metallurgical company Burlachenko K.O
Implementation of concept in the educational process Volodchenkova N.V., Bohdanova O.V., Kruzhylko O.Ye
Regulatory accordance of the component of occupational safety at a metallurgical enterprise Gerasimenko A.V
Development of labor protection measures in coal mines Hizha M.P
The practice of risk assessment at the workplace Dardesov A.O
Artificial intelligence as an effective tool for ensuring the work safety of enterprises in modern conditions Dziurban M.H
About the manufacture of protective structures and containers from ductile iron Doroshenko V.S., Klymenko S.I
Protective properties of respirators and methods of their determination Zaitsev I.O
Innovative technologies for the electrochemical synthesis of multifunctional materials for filter ventilation systems Karakurkchi H.V., Sakhnenko M.D., Korogodskaya A.M
Implementation of European labor safety standards into Ukrainian legislation Kniazkova L.M., Chernykh Ye.M

Expediency and practical application of the Elmeri method for identifying occupational hazards and assessing occupational risk at an enterprise Koniev L.L	24
Sustainability of the work of pipe enterprises in wartime Korol R.M., Protopopova N.A12	27
Peculiarities of industrial safety audit at the enterprise Maistrenko V.V	29
Rational use of collective and individual means of protection at the enterprise Peresunko N.V	32
Implementation of a risk-oriented approach to increase safety during work at height in the construction industry Petchenko I.V	35
Peculiarities of master's training in civil safety under the educational program "Labor safety audit and consulting" Rekova N.Yu., Kruzhylko O.Ye., Volodchenkova N.V	39
Improvement of working conditions in converter production as a result of modernization of technological equipment Repin M.V., Solodchenko T.V14	1
Analysis of accidents in the mining industry Rus Ya.V	Ι4
Identification of potential hazards in the construction of vibrating delivery and loading installations Tkalych I.M., Reshotka V.V14	16
Analysis and forecasting of the main indicators of injury in the construction industry Tsymbal B.M., Ursu O.O	50
Research of hygiene working conditions and health conditions for assessment of occupational risk, injuries at the workplace Cheberiachko Yu.I., Kosternyi S.O	54
Nnovations in the field of labor safety during the repair work of high-rise buildings Shatov S.V., Bogachenko S.V., Goncharov D.D., Poslavsky D.S	58

Identification of hazards, assessment of risks and development
of preventive measures on the example of a repair enterprise Shmyhlenko O.V
•
The impact of stress on productivity and efficiency of work on the enterprice Yakovliev Ye.M
TARVINCY TCMI.
MODERN ECO-FRIENDLY PRACTICES AND PROSPECTS FOR ENVIRONMENTAL PROTECTION
Modernization of the fire equipment of the mining and metallurgical complex based on jet-niche technology
Abdulin M.Z., Terenchuk D.I., Dvortsyn G.R 168
Overview of atmospheric protection measures in mining industry development regions
Avlasonok K.I., Maksymova N.M 171
Review of dust protection measures in the areas of coke industry development Halai V.A., Maksymova N.M
Development of a methodology for calculating a sufficient amount of reagent-collector for flotation enrichment of ash slag waste Hlukhoveria M.R., Mladetskyi I.K
Use of macrophytes for assessment of the ecological condition of technologically changed aquatic ecosystems Hudym N.H
The latest technologies for reuse of sludge of metallurgical enterprises in Ukraine Dreshpak O.S., Berezniak O.O., Berezniak O.O., Chechel P.O
-
Study of the possibility of recycling waste from metallurgical productions using glass technology Zhdaniuk N.V
Relevance and prospects of using alternative raw materials in metallurgical production Zinchenko V.V
Features of the production of iron ore raw materials from hematite quartzites Ivanchenko A.V., Smirnov O.Ya

Biological reclamation of mining lands with biohums materials Kovrov O.S., Kolisnyk K.V196
Technical and economic indicators of the low carbon technology of renewable gas injection into the blast furnace Kutz H.O., Teslenko O.I
Innovative technologies in the field of garbage sorting and waste disposal Miniailo D.O., Nakempii O.K
Some issues of regulatory and legal provision of environmental protection in Ukraine Navolniev I.Yu., Maksymova N.M
Comprehensive visual survey as a mandatory tool for safe operation of tailings Pikarenia D.S., Orlinska O.V., Rudakov D.V
Environmental and economic security of the enterprise: content and implementation of the development plan Polishchuk A.A., Maksymova N.M
Analsis of the impact of the metallurgical complex on the environment and health of the population Snihovyi D.V., Nakempii O.K
Use of natural sorbents in water treatment processes Fediv I.S., Konanets R.M., Stepova K.V
The use of returne water after flotation in the conditions of the prodaction process of mining and concentration plants Khrystoforova O.O
MATHEMATICAL MODELING OF TECHNOLOGICAL AND BUSINESS PROCESSES Hybrid turbo-decoding method Bodnarenko B.O., Ivanov Yu.Yu., Skuratov S.M
Mathematical simulation of rolling processes by pressure using MAPLE computer mathematics systems Hrudkina N.S., Malii Kh.V., Papazov V.M

Development of a mathematical model of user behavior on the website and increasing its conversion Derzhevetska M.A., Kryvtsov O.V.	233
Exponential estimation of asynchronous motor parameters Dmytryshyn I.S.	236
Features of decoding block turbo-product codes Zvuzdetskii Ye.O., Ivanov Yu.Yu	238
The mathematical modeling of physical processes as an element of practical training of students of technical specialties Kaidan V.P	240
The use of maple cms in the course of studying the discipline "Higher and discrete mathematics" by students of economic specialties Kaidan N.V.	243
Qualitative analysis of the solution of one physical model switching in excel Kolesnykov S.O., Pogosyan A.V.	245
Implementation of elements of mathematical modeling in institutions of professional technical and vocational higher education during the teaching of mathematical disciplines Kotenko T.M., Sahay O.V.	248
Numerical simulation of energy-efficient solutions of steel melting bath with regarding kinetics of desulphurization under pneumatic stirring in the arc furnace of foundry class Niemtsev E.M., Timoshenko S.M.	251
Study of plastic deformation of copper under conditions of intensive combined loading Pashynska O.G., Boiko I.O., Zavdovieiev A.V., Kraliuk M.A	255
Modeling the foundations of unit economics Pylypenko V.M	259
Modeling of the synergetic effect of the university ecosystem Chala K.Yu.	262

PERFORMANCE MANAGEMENT Optimal planning of long-term circulating stocks at the warehouses of a motor transport enterprise Hrushko V.V.	266
The method of qualimetric quality assessment improving as the process management tool manufacturing Dolzhanskiy A.M., Bondarenko O.A., Maksakova O.S.	268
Features of the organization of the staff mentoring process Zaitseva D.M	271
The method of hierarchy analysis in determining the priorities of internal communication in the conditions of Metinvest Sichstal LLC Zubavlenko V.V.	275
Martial law influence on staff turnover: causes analysis and consequences in the conditions of "Southern mining and concentration combination" Joint stock company Kiblyk M.V.	277
Enhancing the efficiency of enterprise transport service processes by using interactive dashboards Kovalenko O.V	280
Searching for opportunities to improve the system for assessing the cost of strategic investment projects at Metinvest Sichsteel LLC Kononiuk D.V., Latysheva O.V.	284
Management peculiarities of long-term stock in the mining and concentration company condition Latysheva O.V., Vyshniakova K.S.	288
Creativity as a key to the success of operational efficiency projects Latysheva O.V.	291
Analysis of methods of forecasting volumes of rolled metal demand Lyashenko S.V., Mints O.Yu., Bezruk R.I.	294
Counterparty compliance risk assessment and management methods Mints O.Yu., Fokin Ye.A.	296

Researching the prospects of using data visualization to optimize the business decision-making process Nepliakh I.V., Shevchenko N.Yu	99
Directions of improving the strategy of the ferriera valsider spa mining and metallurgical complex enterprise Ostrovyi S.O)1
Improving metallurgical production management based on the compliance Petrenko V.O., Tuboltsev L.H., Fonarova T.A)6
Optimizing the replacement of press equipment Pitsenko S.Yu)9
The role of soft project manager skills in achieving company success in today's environment of uncertainty and rapid change Rovenska V.V	11
Increasing employees performance through their development Smyrnova I.I., Osadcha V.V	14
Improving employees assessment as a tool of business efficiency management Smyrnova I.I., Osadchyi D.A	18
Leadrship, self-development and teamwork as components of ensuring a favourable business environment Smyrnova I.I	22
Improvement of the motivation system for the personnel of the repair service of the ingulets mining and processing plant Streltsov V.O	25
Peculiarities of socially oriented investment projects in the field of metal construction in the conditions of Metinvest-SMC LTD Suiarko D.V	28
Problems of cost estimation for projects at the initial stages of its planning Usatyi D.O	31
Organizational structure optimization for ensuring enterprise resilience (case study Metinvest-Promservice, LLC) Kharchenko O.S., Isachenko D.Yu	35

Lean philosophy in the budget development process of industrial enterprises	
Chupruna Yu.V.	338
Development of main digitalization measures at the enterprise Shevchyk T.V., Mints O.Yu.	340
Innovative studying methods in personnel performance management Shkrabak I.V., Neborachko A.V.	
~	