

**CONTENT**

**HIGHWAYS**

|                    |   |   |
|--------------------|---|---|
| <b>Dvorzhak V.</b> | Technical Characteristics of Forest Roads | 3 |
|--------------------|---|---|

**ARCHITECTURE**

|                      |  |    |
|----------------------|--|----|
| <b>Vlasyuk O.</b>    | Revitalization of the Historical Nucleus of the Town Olyka of the Volyn Region       | 6  |
| <b>Deineka V.</b>    | Baranov Ceramics: History of Development   | 9  |
| <b>Nakonechna M.</b> | Principles of Architectural Environment Formation of Children Preschool Institutions | 11 |

**WATER ENGINEERING, ALTERNATIVE ENERGY SOURCES**

|                      |  |    |
|----------------------|--|----|
| <b>Demianchuk V.</b> | Solar Power as an Alternative to Electrical Power in Agriculture                               | 14 |
| <b>Zhakun I.</b>     | Rationale for Strip-Till and No-Till Soil Ground Saving Technologies Implementation in Ukraine | 17 |
| <b>Nazaruk A.</b>    | Engineering Measures on Decreasing of Carbon Gas Emissions in the Air                          | 21 |

**WATER SUPPLY, WATER DISPOSAL**

|                      |  |    |
|----------------------|--|----|
| <b>Kotelenets D.</b> | Optimization of Complete Pumps Selection for Water Supply at Development and Reconstruction Stages | 24 |
| <b>Muradyn O.</b>    | Advanced Technique of Groundwater Clarification for Agrarian Purposes                              | 28 |

**HUMANITIES**

|                    |   |    |
|--------------------|---|----|
| <b>Driaieva I.</b> | Shevchenko's Pedagogical Views and the Educational Power of His Words | 32 |
|--------------------|---|----|

**ECOLOGY, ENVIRONMENTAL SAFETY**

|                                     |   |    |
|-------------------------------------|---|----|
| <b>Hulakova K.,<br/>Kaletnyk K.</b> | Dynamics of Biochemical Oxidation in Anthropogenous Transformed Small Rivers                                      | 36 |
| <b>Krupko L.,<br/>Yakymchuk A.</b>  | Phytotoxicity of Water extracts of the Rivne Region Soils, Disturbed with the Amber Illegal Extraction            | 40 |
| <b>Kuzmuk Y.</b>                    | Comparative Evaluation of the Efficiency of the Ecotrails Functioning on the «Male Polissia» Territory            | 44 |
| <b>Peshko M.</b>                    | Optimization of Dimensions of Water-Protect Zones of the Putilivka River in the Volyn Region by Different Methods | 48 |
| <b>Faliakhova A.</b>                | Hydrogen pH of Natural Reservoirs and Factors Affecting It's Value  | 52 |

**ECONOMICS, MANAGEMENT**

|                     |   |    |
|---------------------|---|----|
| <b>Boiko D.</b>     | Implementation of Innovations in the "Asian Tigers" Countries                                     | 56 |
| <b>Boiko D.</b>     | Foreign Trade between Ukraine and EU  | 59 |
| <b>Herasymuk O.</b> | Strategic Directions of Ukraine's Integration with the World Market of Telecommunication Services | 63 |
| <b>Herman A.</b>    | Enterprise Financial Situation and the Ways of its Improvement                                    | 67 |
| <b>Dekalchuk M.</b> | Estimation of the Efficiency of Agricultural Lands Use  | 71 |
| <b>Didyk O.</b>     | Problems of International Labor Migration Regulation and Ways of Their Solution                   | 75 |

|                                      |  |     |
|--------------------------------------|--|-----|
| <b>Kyrdei Y.</b>                     | Special Characteristics of Strategic Planning and Analysis of Small Enterprises  | 79  |
| <b>Kundeus I.</b>                    | Influence of Innovations on the Economic Systems Development   | 83  |
| <b>Momotiuk A.</b>                   | Land as the Primary Means of Production in Agriculture   | 87  |
| <b>Pavlovska L.</b>                  | System of State Procedures of Anti-crisis Management   | 90  |
| <b>Pidhrushnyi V.</b>                | Offshore Territories Usage for Reducing Tax Expense  | 94  |
| <b>Polishchuk A.</b>                 | Transnationalization of Economics: World Trends and Ukraine  | 98  |
| <b>Poliukhovych M.</b>               | Production Diversification Impact on the Forestry Enterprises  | 101 |
| <b>Samedova L.</b>                   | VAT in Ukraine and in the World: Specific Features of Paying   | 104 |
| <b>Samedova L.,<br/>Sytnikova A.</b> | Procedures for the Detection of Fraud During in the Audit of Financial Statements  | 108 |
| <b>Sytnikova A.</b>                  | Retrospective Study of the Tax Imposition Importance in the World  | 112 |
| <b>Fedorchuk M.</b>                  | Functional Role of Internal Operational Audit in the Management System of the State Enterprise "Rivne Forest Enterprise" | 115 |
| <b>Tseliukh Y.</b>                   | Non-Financial Incentives of Engaging Youth in Volunteering Activities  | 119 |

**COMPUTER INTEGRATED TECHNOLOGIES**

|  |  |     |
|--|--|-----|
| <b>Dzhoshi A.</b>                                | Personal Data Access Management Using Proxy Signature Based on Elliptic Curves | 121 |
| <b>Zhovtan T.,<br/>Radchenia M.<br/>Matus O.</b> | Integrated Data System for Smart-Tourism Supporting                            | 125 |
| <b>Lesko O.,<br/>Nemkovych R.</b>                | Queuing Theory Methods Application in the Online Store Storage Work            | 128 |
| <b>Lesko O.,<br/>Nemkovych R.</b>                | On Retrial Queue of the M/M/2/N-Type with Controlled Input Flow                | 132 |
| <b>Shybunka Y.<br/>Yudko Y.</b>                  | Optimizing the Manipulator Drive Using the Developed Software                  | 136 |
|  | Optimal Motion of the Controlled System to the Curvilinear Limit               | 139 |

**LABOUR PROTECTION AND LIFE SAFETY**

|                       |  |     |
|-----------------------|--|-----|
| <b>Stoliarchuk V.</b> | Fire Protection Improvement of Rural Settlements in Conditions of Power Decentralization | 142 |
|-----------------------|--|-----|

**TRANSPORT TECHNOLOGIES, VEHICLE FLEET**

|                                |   |     |
|--------------------------------|---|-----|
| <b>Horetska Y.</b>             | Enterprise Logistic Management as the Guaranty of Success                               | 145 |
| <b>Betsan A.</b>               | Analysis of Modern Autograder Models  | 149 |
| <b>Lepuha T.<br/>Savluk A.</b> | Research of Dynamic Loads of Rotary Clay Ripper   | 152 |
|                                | Determining the Hydraulic Drive residual service life of the Machines Working Equipment | 156 |

**TOURISM**

|                    |  |     |
|--------------------|--|-----|
| <b>Semenov S.</b>  | Rivne Tourist-Excursion Potential and the Possibilities of Its Development (on Example of T.H. Shevchenko Rivne Park-Monument of Landscape Architecture) | 160 |
| <b>Semeniuk D.</b> | Interpretation in Excursion Activity as a Task For Implementation of the Travel Potential of the Rivne Region  | 163 |