

THE NATIONAL ACADEMY OF SCIENCES OF UKRAINE

Scientific and practical journal



ЕКОНОМІКА
ПРОМИСЛОВОСТІ
Economy of Industry

Since 1997

Published quarterly



No. 1 (93)

2021

**The scientific and practical journal "Economy of Industry" has been publishing since 1997
The certificate of the journal state registration is KB No. 23249-13089IIP dated 22.03.2018
The journal is published quarterly**

The journal is included in the List of specialized scientific editions of Ukraine
(in accordance with the Order of the Ministry of Education and Science of Ukraine
of October 24, 2017 No. 1413)

ISSN 1562-109X (Print)
ISSN 2306-532X (Online)

The Journal is registered in the International Center of
periodicals (ISSN International Center, Paris)

The journal "Economy of Industry" is indexed in the Ukrainian nationwide abstract database "Ukrayinika naukova" and is offered in the **Scientific electronic library of periodicals of the NAS of Ukraine**. The periodical is offered also in to the global electronic library of science periodicals **EBSCO Publishing**, in to the **Ulrich's Periodicals Directory** and also in the world's largest network of library content and services **WorldCat**. The journal is indexed by the scientometric base **Index Copernicus** (Warsaw, Poland). Since November 2011 the journal has been including into the International Scientometric Database "Scientific Electronic Library **E-Library.Ru** (the Russian Science Citation Index – **RSCI**)". The periodical is indexed in the freely accessible search system **GoogleScholar**. Since 2013 the journal is indexed in the Scientometric Databases: **DRJI** (Directory of Research Journals Index) and **Research Bible** (Tokyo, Japan). The journal is included in to the **Citefactor** service that provides access to quality controlled Open Access Journals and in to the reference database of the **European Reference Index for the Humanities and the Social Sciences (ERIH PLUS)**.

Founders:

The NAS of Ukraine,
The Institute of Industrial Economics

E-mail:

RPokotylenko@econindustry.org,
admin@econindustry.org.
Web: www.ojs.econindustry.org.
Web: iie.org.ua

The address of the editorial office:

2 M. Kapnist Str.,
Kyiv, Ukraine, 03057.
Tel.: 38 (044) 200-55-71.
Mobile tel.: 38(095) 291-03-11

Editorial Council:

AMOSHA O.I. (Chairman of the Editorial Council, Fellow of the NAS of Ukraine, Institute of Industrial Economics of the NAS of Ukraine), ALEXANDROV I.O. (Doctor of Economics, Professor, Odessa National Polytechnic University), DEMENTIEV V.V. (Doctor of Economics, Professor, Financial University under the Government of the Russian Federation), GEETS V.M. (Academician of the NAS of Ukraine, Institute of Economics and Forecasting of the NAS of Ukraine), KWILINSKI A. (PhD in Economics, London Academy of Science and Business, England), LIBANOVA E.M. (Academician of the NAS of Ukraine, Institute of Demography and Social Studies named after M.V. Ptukha of the NAS of Ukraine), MAKOGON Yu.V. (Doctor of Economics, Professor, Mariupol State University).

Editorial Board:

VISHNEVSKY V.P. (Chief Editor, Member of the Editorial Council, Fellow of the NAS of Ukraine, Institute of Industrial Economics of the NAS of Ukraine), ZALOZNOVA Yu.S. (Deputy Chief Editor, Corresponding Member of the NAS of Ukraine, Institute of Industrial Economics of the NAS of Ukraine), POKOTYLENKO R.V. (Deputy Chief Editor, Managing Editor, PhD in Economics, Institute of Industrial Economics of the NAS of Ukraine), GARKUSHENKO O.M. (Secretary of the Editorial Board, PhD in Economics, Institute of Industrial Economics of the NAS of Ukraine), ANTONYUK V.P. (Doctor of Economics, Professor, Institute of Industrial Economics of the NAS of Ukraine), BRYUKHOVETSKAYA N.Ye. (Doctor of Economics, Professor, Institute of Industrial Economics of the NAS of Ukraine), BULEEV I.P. (Doctor of Economics, Professor, Institute of Industrial Economics of the NAS of Ukraine), CHEREVATSKYI D.Yu. (PhD in Technical Science, Institute of Industrial Economics of the NAS of Ukraine), KHARAZISHVILI Yu.M. (Doctor of Economics, Institute of Industrial Economics of the NAS of Ukraine), KRAVCHENKO O.O. (Doctor of Economics, State University of Infrastructure and Technology), MAYBUROV I.A. (Doctor of Economics, Professor, Ural Federal University named after the First President of Russia Boris Yeltsin, Russia), MYKHENKO V. (PhD in Political Economy, University of Oxford, United Kingdom), NOVIKOVA O.F. (Doctor of Economics, Professor, Institute of Industrial Economics of the NAS of Ukraine), POGORLETSKIY A.I. (Doctor of Economics, Associate Professor, St. Petersburg State University, Russia), SOLDAK M.O. (PhD in Economics, Institute of Industrial Economics of the NAS of Ukraine).

Articles for publication in the scientific and practical journal are selected under the terms of competition by the results of internal and external reviewing. The authors of the articles are fully responsible for accuracy of facts, dates, titles, proper names, data, and quotations. The publisher may not share the opinions expressed in articles, and does not assume any obligations concerning authors' points of view. Reprints and translations are allowed only in the consent of the author and publisher. Materials are printed in the source language.

**The issue is approved for publication by the Academic Council of the
Institute of Industrial Economics of the NAS of Ukraine
(protocol No. 3 dated 16.03.2021)**

© The Institute of Industrial Economics of the NAS of Ukraine
© Economy of Industry, 2021

CONTENTS

MACROECONOMIC AND REGIONAL PROBLEMS OF INDUSTRIAL DEVELOPMENT

- Kharazishvili Yu. M., Lyashenko V. I.** Accounting for innovative factors of economic growth in the production function of Cobb-Douglas (on the example of old industrial regions of Ukraine)5
- Garkushenko O. M.** System-dynamic model for assessing the digitalization impact on sustainable development.....20
- Kniaziev S. I.** Mobile communication of the fifth generation and its place in the transformation processes of digitalization of the economy46

PROBLEMS OF DEVELOPMENT STRATEGY AND FINANCIAL AND ECONOMIC INDUSTRY REGULATION

- Ishchuk S. O., Sozansky L. Y.** Simulation of the Influence of Structural Parameters of the Processing Industry on its Efficiency (on the Example of the EU Countries)60
- Okhten O. O., Dasiv A. F.** Modeling the production function with the account for the change of factors' output over time on the example of manufacturing industry in Germany79

PROBLEMS OF DEVELOPMENT STRATEGY AND FINANCIAL AND ECONOMIC INDUSTRY REGULATION

- Korytko T. Yu., Bryl I. V.** Industrial ecosystems and digitalization in the context of sustainable development92