

ISSN 1728-6220 (Print) ISSN 1728-6239 (Online)

DOI: https://doi.org/10.21003/ea WEB: http://ea21journal.world

ECONOMIC ANNALS-XXI

EA21JOURNAL.WORLD

Scopus

Web of Science (ESCI by WoS)

EBSCOhost

Index Copernicus

Ulrich's Periodicals Directory

C.E.E.O.L.

ERIH PLUS Index

InfoBase Index

WORLD ECONOMY

ECONOMICS AND INFORMATION TECHNOLOGY

ECONOMICS AND MANAGEMENT OF ENTERPRISES

FINANCES, ACCOUNTING AND AUDIT

CONTENTS

14

39

44

50

57

63

ISSN 1728-6220 (Print) ISSN 1728-6239 (Online) https://doi.org/10.21003/ea

ECONOMIC ANNALS-XXI

Research Journal Since 1996

205(9-10)'2023

http://ea21journal.world

Publisher

Institute of Society Transformation (Poland; Ukraine)

Head of the Publishing Project

Dr. Oleh Soskin

Editor-in-Chief

Dr. Nadiya Matviychuk-Soskina

Economic Annals-XXI Journal is recommended by the Polish Ministry of Science and Higher Education (MSHE points 2019: 40 pkt - management and quality studies, economics and finance)

Publication ethics:

the materials submitted for the publication in the journal pass external blind review and reviewing of the members of the Editorial Board of the Economic Annals-XXI Journal.

The ideas and offers, stated in the papers, may not necessarily coincide with the point of view of the Editorial Board.

The responsibility for reliability of information in the papers, accuracy of the titles, names and citations is carried by the authors.

The Editorial Board keeps the right for minor literary changes and shortening of the papers saving the authors' style and conclusions.

The texts submitted cannot be published in the other economic journals worldwide.

All plagiarism issues and issues related to inappropriate citing etc. are to be settled personally by the authors.

Copyright for papers: CC BY 4.0

E-mail: economic.annals@gmail.com **WEB:** http://ea21journal.world

© Oleh Soskin, 2023

WORLD ECONOMY

Chernobay, L., Malibroda, S., & Shevchuk, Yu. (Ukraine). The impact of international migration on the economy of developing countries

ECONOMICS AND INFORMATION TECHNOLOGY

Kulzhambekova, B., Tashenova, L., & Mamrayeva, D. (Republic of Kazakhstan). Theoretical and practical approach to the essential characteristics and structure of digital ecosystems of industrial enterprises

ECONOMICS AND MANAGEMENT OF ENTERPRISES

Arifin, Y., Putra, W., Maslikhah, Tongli, B., & Sholeh, M. (Indonesia). The impact of green supply chain management on the economic performance of SMEs, considering environmental conditions

Noor, Z. Z. (Indonesia).

Examining the role and position of the digital human resource management in economic development

Putra, W., Priowirjanto E. S., Ramli, A., Dwiyanasari, D., & Herlina, D. (Indonesia). The use of Artificial Intelligence and the Internet of Things in forecasting the market and economy

Rajendran, R. P. (India).

Revolutionizing digital marketing: unveiling the impact of influencer marketing, Al-driven customer support, and voice search optimization on engagement and efficiency on the example of the semiconductor manufacturing industry

Development of Electronic Supply Chain Management Strategy for food industry

Tayeva, A., Shambulova, G., Nurseitova, Z., Syzdykova, L., & Rskeldiyev, B. (Republic of Kazakhstan).

Wajdi, M. F., Fauziah, F., Latief, A., Said, M., & Rislawati, N. (Indonesia). Family firms and investment innovation

FINANCES, ACCOUNTING AND AUDIT

Sharairi, M. H., Nassar, M. (UAE), **& Ramadan, A. H.** (Jordan). Islamic accounting standards: historical retrospective, challenges and key players

68

The Economic Annals-XXI Journal is included into nine international indexation databases:

1) Scopus, The Netherlands

(SJR 2014: 0.186; SJR 2016: 0.243; SJR 2018: 0.210; SJR 2019: 0.234; SJR 2020: 0.209; SJR 2021: 0.225; **SJR 2022: 0.193**);

2) WoS Emerging Sources Citation Index (WoS ESCI);

3) Ulrich's Periodicals Directory, Great Britain, the USA; 4) EBSCOhost, the USA;

5) Central and Eastern European Online Library (C.E.E.O.L.), Germany;

6) InfoBase Index, India; 7) ERIH PLUS Index (Norway);

8) Index Copernicus, Poland (ICV 2020 = 128.67; ICV 2022 = 121.13). Recommended by the Polish Ministry of Science and Higher Education

(MSHE points 2019-2023: 40 pkt - management and quality studies, economics and finance)

Editorial Board of Economic Annals-XXI:

Bersheda Yevhen	Associate Member of the National Academy of Sciences (NAS) of Ukraine, D.Sc. (Economics), Professor, First Deputy Director, Institute of Legislation of the Verkhovna Rada of Ukraine, Kyiv, Ukraine
Bilorus Oleg	Academician of the NAS of Ukraine, D.Sc. (Economics), Professor, Head of Department of Global and Civilization Processes, Institute of the World History of the NAS of Ukraine, Kyiv, Ukraine
Chernyak Volodymyr	D.Sc. (Economics), Professor at the Economic Theory Department, University of Economy and Law «Krok», Kyiv, Ukraine
Filipenko Anton	D.Sc. (Economics), Professor at the World Economy and International Economic Relations Department, Institute of International Relations, Taras Shevchenko Kyiv National University, Kyiv, Ukraine
Galeotti Mark (USA)	PhD, Clinical Full Professor of Global Affairs at the Center for Global Affairs, New York University, USA
Horbulin Volodymyr	Academician of the National Academy of Sciences of Ukraine, D.Sc. (Engineering), Professor, Member of Presidium of the NAS of Ukraine, Director of The National Institute for Strategic Studies under the President of Ukraine, Kyiv, Ukraine
Kanygin Yuriy	D.Sc. (Economics), Professor, Department of Finance, Accounting and Audit, University of Modern Knowledge, Kyiv, Ukraine
Kravtsiv Vasyl	D.Sc. (Economics), Professor, Director of the State Institution «Institute of Regional Studies named after M.I. Dolishniy of the NAS of Ukraine», Lviv, Ukraine
Libanova Ella	Academician of the National Academy of Sciences of Ukraine, D.Sc. (Economics), Professor, Member of the Presidium of the NAS of Ukraine, Director of Ptoukha Institute for Demography and Social Studies of the National Academy of Sciences of Ukraine, Kyiv, Ukraine
Matviychuk-Soskina Nadiya	PhD (Economics), Editor-in-Chief of the Economic Annals-XXI, Ukraine; Poland
Melnyk Mariyana	D.Sc. (Economics), Professor, Senior Research Fellow, Head of Sector for Spatial Development of the State Institution «Institute of Regional Studies named after M.I. Dolishniy of the NAS of Ukraine», Lviv, Ukraine
Nor Safwan Mohd (Malaysia; Australia)	PhD (Finance), RHB Islamic Endowed Scholar in Finance, UMT Fund Manager, University of Malaysia Terengganu, Terengganu, Malaysia; Research Associate, Victoria Institute of Strategic Economic Studies, Victoria University, Melbourne, Australia
Ozhevan Mykola	D.Sc. (Philosophy), Professor, Honoured Worker of Science and Technology of Ukraine, Chief Researcher, the National Institute for Strategic Studies under the President of Ukraine, Kyiv, Ukraine
Podgorny Boris (Russian Federation)	D.Sc. (Sociology), Professor, Department of Philosophy and Sociology, Southwest State University, Kursk, Russian Federation
Radionova Iryna	D.Sc. (Economics), Professor, Kyiv National Economic University named after Vadym Hetman, Head of the Economic Theory Department of University of Economy and Law «Krok», Kyiv, Ukraine
Shevchuk Vasyl	D.Sc. (Economics), Professor, Director-in-General of the Research Centre for Sustainable Development, Kyiv, Ukraine
Shnyrkov Alexander	D.Sc. (Economics), Professor, Head of the World Economy and International Economic Relations Department, Institute of International Relations, Taras Shevchenko Kyiv National University, Kyiv, Ukraine
Soskin Oleh	PhD (Economics), PhD (Theology), Associate Professor, Director of Institute of Society Transformation, Professor of the National Academy of Management, Director-Editor & Publisher of the Economic Annals-XXI, Kyiv, Ukraine
Stecenko Inna (Latvia)	PhD (Economics), Professor, Vice-Rector of the Baltic International Academy, Head of PhD Program «Regional Economy and Economic Policy», Riga, Latvia
Storonyanska Iryna	D.Sc. (Economics), Professor, Head of Regional Financial Policy Department of the State Institution «Institute of Regional Studies named after M.I. Dolishniy of the NAS of Ukraine», Lviv, Ukraine
Táncošová Judita (Slovakia)	PhD (Economics), Professor in the Department of Economics and Finance, Vice-Rector for Education, School of Economics and Management in Public Administration in Bratislava, Slovakia
Vasa Laszlo (Hungary)	PhD (Agricultural Economics), Associate Professor, Institute for Foreign Affairs and Trade, Budapest; Research Professor, Szechenyi Istvan University, Győr, Hungary
Wierzbicka Ewa (Poland)	PhD (Economics), Adjunct Professor, Institute of Value Management, Warsaw School of Economics, Warsaw, Poland
Zernetska Olga	D.Sc. (Politics), Professor, Head of Global and Civilization Processes Department, Institute of the World History of the National Academy of Sciences of Ukraine, Kyiv, Ukraine
Zvarych Roman	D.Sc. (Economics), Associate Professor, Vice-Director, B. Havrylyshyn Education and Research Institute of International Economic Relations, Ternopil National Economic University, Ternopil, Ukraine

ISSN 1728-6220 (Print) ISSN 1728-6239 (Online) https://doi.org/10.21003/ea

ЕКОНОМІЧНИЙ ЧАСОПИС-ХХІ

науковий журнал

205(9-10)'2023

Видається з 1996 року

Керівник проекту
Олег Соскін
Головний редактор
Надія Матвійчук-Соскіна
Міжнародний редактор
Дмитро Масько

E-mail: economic.annals@gmail.com **WEB:** http://ea21journal.world

Журнал перереєстровано Міністерством юстиції України Свідоцтво КВ № 20731-10531ПР від 15.05.2014 р.

Журнал рекомендовано до друку та поширення через мережу Інтернет.

Підписано до друку 27 листопада 2023 р.

Видавець:

Олег Соскін Свідоцтво про внесення до Державного реєстру суб'єктів видавничої справи ДК № 3273 від 03.09.2008 р.

Відповідальність за точність наведених даних і цитат покладається на авторів.
Передрук — за погодженням із редакцією.
Матеріали друкуються англійською, українською, російською та польською мовами.
У разі цитування посилання на «Економічний часопис-XXI» обов'язкове.

© Олег Соскін, 2023