ISSN 1998-6939 EISSN 2306-1707 DOI 10.14308/ite

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE KHERSON STATE UNIVERSITY

NATIONAL ACADEMY OF SCIENCES OF UKRAINE INSTITUTE OF INFORMATIONAL TECHNOLOGIES AND LEARNING TOOLS

Information Technologies in Education

SCIENTIFIC JOURNAL

Editor-in-Chief: Professor Spivakovsky O.

Scientific journal was founded in May 2007

3 (44) Issue

Kherson - 2020

UDC 004:37

Printed by decision of Academic Council of Kherson State University (protocol № 9 from 21.05.07) Ratified by decision of Academic Council of Kherson State University (protocol from 28.09.2020 № 3)

Included in List of Scientific Professional Issues of Ukraine (By order of Ministry of Education and Science of Ukraine №409 from 17.03.2020)

Editor-in-Chief	
Aleksander Spivakovsky	– Kherson State University, Ukraine
I I I I I I I I I I I I I I I I I I I	Co-Editors-in-Chief
Andrey Gurzhij	- National Academy of Pedagogical Sciences, Ukraine
Vadim Ermolayev	– Zaporozhye National University, Ukraine
Maksym Vinnyk	– Kherson State University, Ukraine
	Editorial Assistants
Hennadiy Kravtsov	– Kherson State University, Ukraine
Yuliia Tarasich	– Kherson State University, Ukraine
Copyeditor	
Olga Gnedkova	– Kherson State University, Ukraine
Editorial Board Members:	
Boris Andrievskiy	– Kherson State University, Ukraine
Valeriy Bykov	- Institute of Informational Technologies and Learning Tools, Ukraine
Sergiy Bogomolov	– Australian National University, Australia
Vagan Terziyan	– University of Jyväskylä, Finland
Natalia Valko	– Kherson State University, Ukraine
Vangalur Alagar	– Concordia University, Canada
Gary L. Pratt	– Eastern Washington University, United States A.
Heinrich C. Mayr	– Alpen-Adria-Universität Klagenfurt, Austria
David Camacho	– Universidad Autónoma de Madrid, Spain
Dumitru Dan Burdescu	– University of Craiova, Romania
Oleksandr Kolhatin	– H.S. Skovoroda Kharkiv National Pedagogical University, Ukraine
Vira Kotkova	– Kherson State University, Ukraine
Vladyslav Kruhlyk	– Bogdan Khmelnitsky Melitopol State Pedagogical University, Ukraine
Nataliya Kushnir	– Kherson State University, Ukraine
Alexander Letichevsky	– Glushkov Institute of Cybernetics, Ukraine
Leo Van Moergestel	- Utrecht University of Applied Sciences, Netherlands
Michael Lvov	– Kherson State University, Ukraine
Natalia Morze	– Borys Grinchenko Kiev University, Ukraine
Mykola Nikitchenko	– Taras Shevchenko National University of Kyiv, Ukraine
Kateryna Osadcha	– Bogdan Khmelnitsky Melitopol State Pedagogical University, Ukraine
Natalia Osipova	– Kherson State University, Ukraine
Vladimir Peschanenko	– Kherson State University, Ukraine
Liubov Petukhova	– Kherson State University, Ukraine
Sergey Rakov	– National Pedagogical Dragomanov University, Ukraine
Yelena Sagan	– Kherson State University, Ukraine
Serhiy Semerikov	– Kryvyi Rih State Pedagogical University, Ukraine
Oleg Spirin	- Institute of Informational Technologies and Learning Tools, Ukraine
Stavros Demetriadis	- Aristotle University of Thessaloniki, Greece
Yuriy Trius	– Cherkasy State Technological University, Ukraine
Philipp Lahire	– University of Nice Sophia-Antipolis, France
Mykhailo Sherman	– Kherson State University, Ukraine
Olena Shyshatska	– Taras Shevchenko National University of Kyiv, Ukraine

Information Technologies in Education: Scientific journal. Issue 3 (44). – Kherson: KSU, 2020. – 88 p.

Editorial board reserved the right to edit and reduce articles. Authors opinions cannot always agreed with editorial board's point of view. Authors are responsible for authenticity of facts, quotations, names, places, and other information.

Founders: Kherson State University, Institute of Informational Technologies and Learning Tools of National Academy of Educational Sciences of Ukraine.

The certificate of state registration of printed mass media Serial number KB № 24162-14002 ПІ.

http://ite.kspu.edu

The scientific journal is registered and submitted in bibliometric databases and systems: DOAJ, Ulrich's Periodicals Directory, WorldCat, CrossRef, Index Copernicus International S.A., Abstract database "Україніка наукова", Google Scholar.

Address of editorial stuff: Kherson State University Universytets'ka, 27, Kherson, Ukraine, 73000