Educational Technology Quarterly: in the beginning

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Abstract. The editorial that opens the 1st issue of Educational Technology Quarterly.

Keywords: Educational Technology Quarterly, ETQ, Educ. Technol. Q

1. About the journal

Educational Technology Quarterly (ETQ, Educ. Technol. Q) is a Diamond Open Access peer-reviewed journal focused on the ways in which digital technology can enhance education. ETQ welcomes research papers on the pedagogical uses of digital technology where the focus is broad enough to be of interest to a wider education community.

In addition to empirical work, we welcome systematic reviews and meta-analyses that include clear research questions, a framework of analysis, and conclusions that reflect the aims of the paper. ETQ also offers the opportunity to publish special issues or sections to reflect current interest and research in topical or developing areas.

2. Journal history

The journal was established by the Academy of Cognitive and Natural Sciences, an international non-governmental organization whose mission is to advance the professional, scientific, social, and other interests of researchers in the field of cognitive and natural sciences, as well as to improve research.

Our inspiration for this journal comes from the pioneering work of Myroslav I. Zhaldak [247–251], a renowned academic who is known as the *Father of Educational Technology* in both the USSR and Ukraine. The final concept of the journal was presented at the Symposium on Advances in Educational Technology on November 12-13, 2020, in Kyiv, Ukraine.

3. Editorial board

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Figure 1: Myroslav I. Zhaldak (15.08.1937–26.02.2021).

Leon was born in West Limau, Prabumulih, South Sumatra. He has studied Information Systems, Information Systems Management, and Information Retrieval Systems during his studies. In 2001 he joined as a lecturer at one of the leading private universities in Palembang City. In 2010 he became an Associate Professor (Assoc. Prof.) at the Faculty of Computer Science, Information Systems Study Program (Accredited A). He is currently the coordinator of the enterprise systems research group. Assoc. Prof. Leon A. Abdillah is active as a speaker, author, editor, reviewer, committee on a number of journals, conferences/seminars, books/book chapters, etc. He has included 500 Indonesian scientists (Webometrics, 2015), examiners at Monash University (Group of Eight), Australia, and mentors at Publons, New Zealand. He also often gets awards for the best undergraduate and post graduate category, the best computer science lecturer, the best reference article, excellent paper, top reviewer, selected article, etc.

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Notable works: Abdillah [1], Abdillah et al. [2], Abdillah, Sari and Indriani [3], Kurniasih et al. [109], Napitupulu et al. [138].

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Notable works: Afari [5], Afari et al. [6], Afari, Ward and Khine [7], Khine and Afari [88], Khine, Ali and Afari [89].

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Notable works: Almeida [8], Almeida and Buzády [9], Almeida and Monteiro [10, 11], Almeida and Simoes [12].

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Notable works: Martseva et al. [123], Vakaliuk et al. [224], Vakaliuk, Antoniuk and Soloviev [228], Vakaliuk et al. [229, 230].

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Notable works: Bilousova, Gryzun and Sivochka [21], Bilousova et al. [22], Bilousova, Kolgatin and Kolgatina [23, 24], Bilousova and Zhytienova [30].

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Notable works: Bizzo [32], Bizzo and Caravita [33], Franzolin, Garcia and Bizzo [60], Garcia and Bizzo [61], Oliveira, Silva de Pietri and Bizzo [148].

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Notable works: Blignaut et al. [34], Brun [36, 37], Brun and Hinostroza [38], Enrique Hinostroza et al. [53].

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Dr. Chang now is the Editor-in-Chief of the Eurasia Journal of Mathematics, Science and Technology Education and European Journal of Mathematics and Science Education, as well as the Co-editor of International Journal of Educational Methodology. He is also on the Editorial Board of three SSCI-level journals: (1) Studies in Science Education (science education); (2) Learning, Media & Technology (learning technology); (3) Journal of Science Education and Technology (science education & technology). In February 2013, Dr. Chang's catechol-O-methyltransferase (COMT) study was privileged with a report by the New York Times Sunday Magazine, as well as in the news featured on Association of Psychological Science website.

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Notable works: Chang [41, 42, 43, 44, 45].
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Notable works: Derkach [48, 49], Derkach and Kharitonenko [50], Kolchanova, Derkach and Starova [91], Konovalenko et al. [101].

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Notable works: Day and Erturk [47], Erturk [54, 55], Erturk and Reynolds [56], Purdon and Erturk [173].

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Notable works: Bajdor, Pawełoszek and Fidlerova [17], Fidlerová et al. [58], Porubčinová and Fidlerová [169], Porubčinová, Novotná and Fidlerová [170], Surówka, Popławski and Fidlerová [212].

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Notable works: Goktas, Coban and Karakus [62], Goktas and Demirel [63], Goktas, Yildirim and Yildirim [64, 65, 66].

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Notable works: Figueiredo, Cifredo-Chacón and Gonçalves [59], Gonçalves and Gonçalves [67, 68], Lopes and Gonçalves [117], Morais, Gonçalves and Bambirra de Assis [133].

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Notable works: Bilousova and Gryzun [25], Bilousova et al. [26, 27], Bilousova, Gryzun and Volkova [28], Bilousova, Gryzun and Zhytienova [29].

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Notable works: Gülbahar [69, 70, 71, 72], Kandemir, Kalelioğlu and Gülbahar [85].

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Notable works: Hrybiuk [74, 75, 76], Hrybiuk and Szafran [77], Hrybiuk et al. [78].

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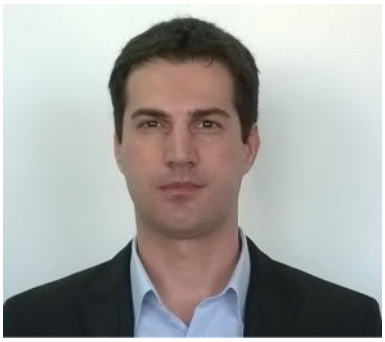

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Notable works: Iordache [81, 82], Iordache and Zamfiroiu [83], Lamanauskas, Iordache and Pribeanu [113], Pribeanu, Balog and Iordache [171].

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WWW: http://utopia.duth.gr/ckaltsid

Notable works: Kaltsidis, Kedraka and Grigoriou [84], Kedraka and Kaltsidis [86], Raikou et al. [174], Rotidi et al. [177], Tzovla, Kedraka and Kaltsidis [219].

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Notable works: Alzubaidi, Aldridge and Khine [13], Areepattamannil and Khine [15], Hu et al. [79], Khine [87], Liu and Khine [114].

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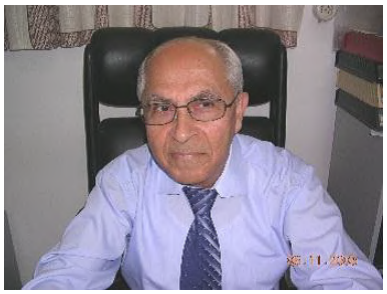

Arnold Kiv received the D. Sc. (Dr. Hab.) degree in solid state physics from Tartu Institute of Physics, Tartu, Estonia, in 1978. From 1964 to 1982, he was a Senior Researcher and a Head of the Laboratory of Radiation Effects, Institute of Nuclear Physics, Academy of Sciences, Tashkent, Uzbekistan. From 1983 to 1998, he was a Head of the Department of Theoretical Physics, South-Ukrainian National Pedagogical University, Odessa, Ukraine. In 1997, he was an Invited Professor, Western Ontario University, Canada. From 1999 to the present, he is a Professor-Researcher in the Department of Materials Engineering, Ben-Gurion University of the Negev, Israel. In 1996 and 2011 he was co-Director of NATO Advanced research Workshops and an Editor of two

NATO Series books. He has about 200 publications, three monographs and three Invention Certificates in the field of radiation effects in solid state electronics. His research interests include mechanisms of formation of radiation defects in solids, interaction of fast particles with materials, radiation methods in microelectronics, including computer simulation, analytical calculations and experimental studies.

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Notable works: Kiv et al. [90], Moiseienko et al. [128], Semerikov et al. [186, 189], Shepiliev et al. [193].

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Notable works: Kolgatin and Kolgatina [92], Kolgatin et al. [93], Kolhatin [94, 95], Semerikov et al. [188].

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Notable works: Komarova and Kiv [96], Komarova and Starova [97], Komarova [98], Komarova and Kiv [99], Komarova and Azaryan [100].

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Notable works: Kumar [105, 106, 107, 108], Raj et al. [175].

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Notable works: Kuzminska, Morze and Smyrnova-Trybulska [112], Mazorchuk et al. [124, 125], Prokhorov et al. [172], Smyrnova-Trybulska et al. [196].

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Alisa V. Moldavanova is Associate Professor of Public Administration and Nonprofit Management in the Political Science Department and Coordinator of the Graduate Certificate in Nonprofit Management. Her research investigates organizational sustainability in the context of public service organizations, the role of inter-organizational networks and other forms of social connectedness in enabling sustainable organizations, as well as how nonprofits and other public service organizations foster sustainable development in their local communities. She is also conducting research on the role of civil society and nonprofit sector organizations in advancing democracy.

WWW: https://clasprofiles.wayne.edu/profile/fk5503
ORCID: https://orcid.org/0000-0001-7475-8373

Notable works: Mitra and Moldavanova [126], Moldavanova [129], Moldavanova and Goerdel [130], Moldavanova, Pierce and Lovrich [131], Moldavanova and Wright [132].

Mattia Monga, Associate Professor, Department of Computer Science Università degli Studi di Milano, Milan, Italy.

Mattia Monga received a PhD in computer and automation engineering from Politecnico di Milano, Italy in 2001. His research interests are mainly in the field of software engineering, system security, and computer science education. He is one of the founders of AlaDDIn, a group working to spread informatics as a science among the general public, he is the national contact for the Bebras game contest and the coordinator for the informatics branch of the national Plan for fostering scientific degrees. He is a senior member of the Association for Computing Machinery.

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Notable works: Bellettini et al. [18, 19, 20], Lodi et al. [115], Lonati et al. [116].

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Dr. **Olga Moreno-Fernández**, Assistant Professor of Didactics of Social Sciences, Department of Didactics of Experimental and Social Sciences, University of Seville, Spain.

Olga Moreno-Fernández, has a degree in Humanities and a Diploma in Primary Education. D. from the Universidad Pablo de Olavide with international mention and extraordinary prize for the work "Environmental education and education for citizenship from a planetary perspective. Study of experiences in Andalucía". She is currently Researcher in charge of the Research Group on Education: Health, Environment and Citizenship (HUM-1027) and editor-in-chief of the journal ESAMEC. Education Journal: Health, Environment and Citizenship. She has participated as a researcher in several research projects, both national and international, related to Citizenship Education. She has published in journals indexed in databases such as SJR or JCR, as well as in publishers indexed in SPI.

WWW: https://investigacion.us.es/sisius/sis_showpub.php?idpers=18069
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Notable works: Badilla Quintana et al. [16], Celia et al. [40], Ferreras-Listán et al. [57], Moreno-Fernandez and Moreno-Crespo [134], Navarro-Díaz, Moreno-Fernández and Rivero-García [139].

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Pavlo Nechypurenko, Associate Professor of Department of Chemistry and Methods of its Teaching, Kryvyi Rih State Pedagogical University, Kryvyi Rih, Ukraine.

Pavlo Nechypurenko, born in 1981, received a Magister of Teaching of Chemistry from Kryvyi Rih State Pedagogical University, Ukraine, in 2004, and a Candidate of Pedagogical Sciences degree (Dr. phil.) from the Luhansk Taras Shevchenko National University, Ukraine, in 2017. Since 2004, he has been working in the field of analytical chemistry and method of solving chemical problems at the Kryvyi Rih State Pedagogical University. His research interests include using of ICT on Chemistry education, Analytical Chemistry, Technique of chemical experiment. He has published a number of papers in Ukrainian and international journals and developed a series of virtual laboratory work to teaching chemistry.

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Notable works: Markova et al. [122], Modlo et al. [127], Nechypurenko and Semerikov [140], Nechypurenko, Selivanova and Fedorynova [141], Nechypurenko et al. [143].

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Yuliia Nosenko, born in 1984, received a Candidate of Pedagogical Sciences degree (Ph.D.) in 2011. In 2010-2015 worked at Taras Shevchenko National University of Kiev (part time). Since 2010 has been working at the Institute for Digitalisation of Education of the National Academy of Educational Sciences of Ukraine, where she is currently leading researcher. Her research interests relates to implementation and use of cloud services in education, formation and development of educators' digital competence, use of ICT as a tool for supporting inclusive learning. She has published over 80 scientific papers, including articles in international journals, is a member of editorial board of peer-reviewed e-journal "Information Technologies and Learning Tools".

WWW: http://iitlt.gov.ua/structure/departments/cloud/detail.php?ID=48

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Notable works: Marienko et al. [120], Marienko, Nosenko and Shyshkina [121], Nosenko, Sukhikh and Dmytriienko [144], Nosenko [145], Nosenko, Popel and Shyshkina [146].

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Viacheslav Osadchyi, born in 1975, received a Candidate of Pedagogical Sciences (PhD in Education) from the Vinnytsia State Pedagogical University named after Mykhailo Kotsiubynsky, Ukraine, in 2006, and a Doctor of Pedagogical Sciences from the Vinnytsia State Pedagogical University named after Mykhailo Kotsiubynsky, Ukraine, in 2013. Since 1999, he has been working in the field of information technology and vocational education at the Bogdan Khmelnitsky Melitopol State Pedagogical University. Now – Head of the Department of Computer Science. His research interests include: computer science, information networks, ICT, programming, software development, information systems, data science. He has published a number of papers in international journals. He is a member of editorial boards of Ukrainian Journal of Educational Studies and Information Technology (Ukraine), Computing Conference (formerly called Science and Information (SAI) Conference) (UK), Intelligent Systems Conference (IntelliSys) (The Netherlands), International Conference on Higher Education Advances (Spain), Transactions of Kremenchuk

Mykhailo Ostrohradskyi National University (Ukraine), Information Technologies and Learning Tools (Ukraine), Scientific papers of Berdyansk State Pedagogical University Series: Pedagogical sciences (Ukraine).

WWW: http://osadchyi.mdpu.org.ua/

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Notable works: Kruglyk and Osadchyi [104], Osadchyi, Osadcha and Eremeev [150], Osadchyi, Valko and Kuzmich [152], Osadchyi et al. [153], Valko and Osadchyi [233].

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Dr. *Liubov Panchenko*, Professor at the Department of Sociology, National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", Kyiv, Ukraine.

Liubov Panchenko was awarded a Candidate of Pedagogical Sciences degree (Dr. phil.) from H. S. Skovoroda Kharkiv National Pedagogical University, Kharkiv, Ukraine, in 1995, and a Doctor of Pedagogical Sciences degree (Dr. habil.) from the Luhansk Taras Shevchenko National University, in 2012. Since 1993, she has been working in the field of information and communication technology in education. Since 2016 she has been a Professor at the Department of Sociology, National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute". Her research interests include information and communication technology in education, university's educational environment, MOOCs, data analysis and multivariate methods in scientific research, digital storytelling, adult education. She has published a number of papers and textbooks ("Computer data analysis", "Data analysis practicum", "Mathematical and statistical methods of sociological information's analysis") and is an editorial board member of the Ukrainian journals "Information Technologies and Learning Tools" (associated editor), "e-Environment of Modern University", and "Humanization of the educational process".

WWW: http://www.sociology.kpi.ua/en/faculty-2

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Notable works: Adamenko and Panchenko [4], Panchenko and Khomiak [154], Panchenko, Khomiak and Pikilnyak [155], Panchenko et al. [156], Panchenko, Vakaliuk and Vlasenko [157].

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Dr. *Stamatios Papadakis*, Postdoc researcher, Department of Preschool Education, University of Crete, Greece.

Stamatios Papadakis has been a postdoctoral researcher in Educational Technology, with emphasis on mobile learning, at the Department of Preschool Education at the University of Crete, Greece since 2016. He has worked as an adjunct Lecturer in Education teaching Didactics in Programming (2017-2018) at the Department of Computer Sciences, School

of Sciences and Engineering at the University of Crete, Greece. Since 2017 he worked as an adjunct Lecturer in Education teaching Informatics (2017-2018) at the Department of Preschool Education, School of Education, University of Crete, Greece. His scientific and research interests include the study of mobile learning, especially on the use of smart mobile devices and their accompanying mobile applications (apps) in the use of Preschool and Primary Education, focusing on the development of Computational Thinking and students' understanding of numbers. Furthermore, he currently investigates how a STEM learning approach influences learning achievement through a context-aware mobile learning environment in the preschool classroom and to explain the effects on preschoolers' learning outcomes.

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Notable works: Papadakis [158, 159, 160, 161, 162].
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Olga Pinchuk, PhD (in Pedagogics), Senior Researcher in the field of information and communication technologies in education, Leading Researcher and Deputy Director for Scientific Experimental Work at the Institute for Digitalisation of Education of the NAES of Ukraine, Ukraine.

Education: M.P. Drahomanov Kyiv State Pedagogical Institute in specialties of Mathematics, Computer Science and Computer Engineering teacher. Currently the experience in teaching is 25 years. Since 2005 she work in the Institute for Digitalisation of Education of the NAES of Ukraine. She worked on the implementation of the tasks of the scientific research works "Scientific and methodological foundations use of computer oriented tools in teaching natural and mathematical subjects in profile School", "Scientific and methodological principles of organization of distance learning environment in secondary schools", "Methodology of design network resource centers of distance education of secondary schools", "Formation of information and educational environment for learning high school students through technology electronic social networks" (Head of Scientific Research), "System of computer modeling of cognitive tasks for the formation of competencies of students in natural and mathematical subjects". She have more than 80 published scientific works, the author of collective monographs, manuals. She also the co-editor-in-chief of "Information Technologies and Learning Tools", a peer-reviewed e-journal in educational sphere, publishing full-text articles online with immediate open-access.

WWW: https://iitlt.gov.ua/eng/structure/detail.php?ID=442
ORCID: https://orcid.org/0000-0002-2770-0838
Notable works: Burov et al. [39], Pinchuk, Burov and Lytvynova [164], Pinchuk, Tkachenko and Burov [166], Pinchuk, Lytvynova and Burov [167], Pinchuk et al. [168].
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Dr. *Zarema Seidametova*, Professor, Chair of Applied Informatics Department, Fevzi Yakubov Crimean Engineering-Pedagogical University, Simferopol, Crimea.

Zarema Seidametova, received her Ph.D. in fluid mechanics from Institute of Mechanics and Earthquake Engineering Academy of Sciences of Uzbekistan, Tashkent, in 1988, and her science degree doctor of sciences in Computer Science Education from Dragomanov National Pedagogical University. Kyiv, Ukraine, in 2008. She held visiting positions at Statistical Department at Educational Testing Service (Princeton, NJ) in 2004, and Computer Science Department at Duke University (Durham, NC) in 2013-2014. She is a member of ACM. Her research interests include computer science education. She has published a number of papers in international journals and volumes in book series.

WWW: https://kipu-rc.ru/fakultet-ekonomiki/kafedra-prikladnoj-informatiki.html

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Notable works: Moskaleva, Seidametova and Temnenko [137], Seidametova [179], Seidametova and Temnenko [180, 181], Seidametova, Abduramanov and Seydametov [182].

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Olena Semenikhina, Dr.hab. in Pedagogics, Professor, Chair of the Department of Computer Science, Makarenko Sumy Pedagogical University, Ukraine.

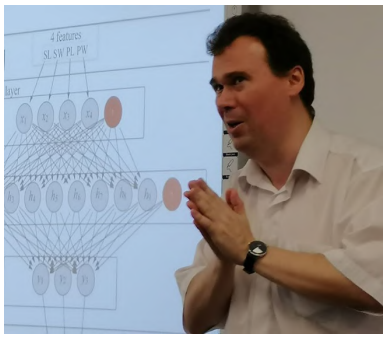
Editor-in-chief of the scientific journal "Physical and Mathematical Education", the specialist in the field of pedagogical sciences. Chairman of the Specialized Academic Council K55.053.03 of Makarenko Sumy Pedagogical University, Ministry of Education and Science of Ukraine. The organizer of the International scientific and practical conference "Scientific activity as a way of formation of professional competences of the future specialist" (NPK). A range of scientific interests: teacher training for IT use, computer visualization in the professional activity of a mathematics teacher, computer visualization of mathematical knowledge, dynamic mathematics software, systems of computer mathematics.

WWW: https://fmo-journal.fizmatsspu.sumy.ua/index/0-49

ORCID: https://orcid.org/0000-0002-3896-8151

Notable works: Drushlyak et al. [51, 52], Rudenko et al. [178], Semenikhina et al. [183, 184].

Dr. *Serhiy Semerikov*, Professor of Computer Science and Educational technology, Kryvyi Rih State Pedagogical University, Ukraine.



Serhiy Semerikov had studied Mathematics and Computer Science at Kryviy Rih State Pedagogical University, Ukraine in 1993-1998. He has obtained an MA Diploma in Mathematics and Computer Science and MS Diploma in Mathematics at Kryviy Rih State Pedagogical University in 1998 (cum laude). In 2001 he was awarded a PhD degree in Computer Science Education at Dragomanov National Pedagogical University, Ukraine. In 2002 he received his habilitation as the Docent (Assoc. Prof.) at the Department of Computer Science and Applied Mathematics of Kryviy Rih State Pedagogical University. In 2009 he was awarded a DrSc degree in Computer Science Education at Dragomanov National Pedagogical University, Ukraine. In 2011 he received his habilitation as the Professor (Full Prof.) at the Department of Fundamental Disciplines of National Metallurgical Academy of Ukraine. From July till September 1998 Mr. Semerikov worked as a head of Research Laboratory of Department of Computer Science and Applied Mathematics at Kryviy Rih State Pedagogical University. From September 1999 till now he works at Kryviy Rih State Pedagogical University at various positions: Assistant Professor, Associate Professor, Head of Department, Full Professor. In 2010-2016 he was affiliated as a visiting professor at National Metallurgical Academy of Ukraine and Kryviy Rih National University. Since 1997 he took and is taking part as a researcher, senior researcher, principal researcher in many research and RTD projects funded by Ukrainian Ministry of Education and Science, International Renaissance Foundation, Kryviy Rih National University. Since 2010 he works at the Institute for Digitalisation of Education of the NAES of Ukraine, Ukraine at the research positions. Since 1999 Dr. Semerikov teaches undergraduate and graduate courses in Computer Modelling, Operating Systems, Architectures of Computer Systems, System Programming, Econometry, Data Compression Techniques, Programming Theory, Artificial Intelligence, the Machine Learning and Pattern Recognition, Quantum Programming, ICT in Education, Advances in ICT, the Software Engineering and Programming Technologies, Functional Programming. He supervised over 100 successfully accomplished master theses and 11 PhDs. He has also been the member of about 50 PhD Committees. Dr. Semerikov has published over 300 papers as journal articles, book chapters, refereed conference and workshop contributions. He also co-edited or (co-)authored several proceedings volumes and textbooks. He serves as a member of Editorial Advisory Boards, Editorial Review Boards of international journals, a program committee member of many international conferences and workshops. Dr. Semerikov is the founder and the co-head of the Joint Laboratory on Cloud Technologies in Education (CTE) at Kryvyi Rih National University. Since 2021, he serve as the Editor-in-Chief of the *Educational Technology Quarterly* journal.

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ORCID: https://orcid.org/0000-0003-0789-0272

Notable works: Semerikov et al. [185], Semerikov, Mintii and Mintii [187], Striuk and Semerikov [205], Tarasenko et al. [215], Tkachuk et al. [216].

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Dr. *Yevhenii Boris Shapovalov*, Chief specialist in Ministry of Digital Transformation of Ukraine and Researcher in National Center "Junior Academy of Science of Ukraine", Ukraine.

Yevhenii Shapovalov was born in 1992, received Ph.D. in 2020 from the National University of Life and Environmental Sciences of Ukraine in biotechnology. He worked in the field of digitalization of chemistry education in the National Center "Junior Academy of Science of Ukraine" from 2014 to 2020 and then start to work in the Ministry of Digital transformation. He has studied the anaerobic digestion of high nitrogen content in biotechnology and modern approaches in the digitalization of education, such as using AR, smart tools, and ontologies to structure education content. He is a board member of NGO "European Studies' Platform for Sustainable Development" and has experience in international educational projects (Erasmus+).

WWW: http://www.nas.gov.ua/UA/PersonalSite/Pages/default.aspx?PersonID=0000026333

ORCID: https://orcid.org/0000-0003-3732-9486

Notable works: Bilyk et al. [31], Shapovalov et al. [190, 191], Shapovalov, Shapovalov and Zaselskiy [192], Tarasenko et al. [214].

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Dr. *Iryna Slipukhina*, D.Ed., National Center of Junior Academy of Sciences of Ukraine & National Aviation University, Ukraine.

Iryna Andriivna Slipukhina graduated from Kyiv State Pedagogical Gorky Institute, Faculty of Physics and Mathematics, specialty "Physics and Astronomy". Candidate of Physical and Mathematical Sciences since 1999, specialty 01.04.10 – physics of semiconductors and dielectrics, PhD thesis "Laser spectroscopy of CdP2 crystals of tetragonal modification". Doctor of Pedagogical Sciences since 2015, specialty 13.00.02 – Theory and Teaching Methods (technical disciplines), thesis "Theoretical and methodological principles of formation of technological competence of future engineers using a computer-based system of physical experiment". Since 2015, I. A. Slipukhina is a professor at the Department of General and Applied Physics, and since 2020 – also a leading researcher of the department for the creation of educational-thematic knowledge systems of the National Center "Junior Academy of Sciences of Ukraine". By the current time her scientific and pedagogical experience is 20 years. She is a member of the public organization "Innovative University and Leadership". Her Polish language proficiency level is B2. She involves junior

students, high school students in research work, takes an active part in training seminars for teachers of natural sciences.For many years of conscientious, impeccable and active work on scientific guidance of students of NAU I. A. Slipukhina received diplomas, awards and acknowledgments from the rector of the National Aviation University and the Direction of the Junior Academy of Sciences. She has more than 150 scientific and methodological publications on education and teaching methods. Research interests: STEM and other interdisciplinary approaches in teaching, training of STEM educators, instrumental digital didactics, innovative learning technologies.

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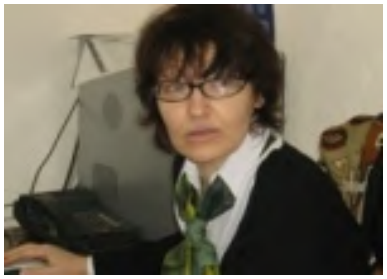
Notable works: Bovtruk et al. [35], Chernetskyi and Slipukhina [46], Slipukhina et al. [194, 195], Stryzhak et al. [211].

Dr. phil. *Oleksandra Sokolyuk*, Acting Deputy of Scientific Secretary Institute for Digitalisation of Education of the NAES of Ukraine, Kyiv, Ukraine.



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Notable works: Iatsyshyn et al. [80], Pinchuk et al. [165], Sokolyuk [197, 198, 199].

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Dr. *Vladimir N. Soloviev*, Head of the Department of Computer Science and Applied Mathematics, Kryvyi Rih State Pedagogical University, Ukraine.

Vladimir N. Soloviev received the D. Sc. (Dr. Hab.) degree in solid state physics from Institute of Physics of the National Academy of Sciences of Ukraine, in 1993. From 1992 to 2000 and from 2016 to the present head of the Department of Computer Science and Applied Mathematics of Kryvyi Rih State Pedagogical University. In the period from 2000 to 2016, he carry out research on critical and crisis phenomena in the financial markets at various universities in Kyiv, Cherkasy and Kryvyi Rih. He has about 300 publications in the field of solid state physics, complex systems and quantitative methods of constructing precursors of crisis phenomena in systems of different nature.

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Notable works: Korotun, Vakaliuk and Soloviev [103], Nechypurenko and Soloviev [142], Soloviev, Moiseienko and Tarasova [200], Tokarieva et al. [218], Velychko et al. [241].

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Oleg Spirin, Doctor of Pedagogy, Full Professor, Corresponding Member of the National Academy of Pedagogical Science of Ukraine, Vice Rector for Research and Digitalization of the University of Educational Management, Kyiv, Ukraine.

Oleg Spirin, born in 1965, 1989 – graduated from Zhytomyr Ivan Franko State University, Ukraine, majoring in Mathematics and Physics. Scientific degree: Ph.D (2002), Thesis "Differentiated approach to the Study of the Foundations of Artificial Intelligence in Computer Science Course Physics and Mathematics in Higher Educational Institutions"; Doctor of Pedagogical Sciences (2009), Thesis "Theoretical and Methodological Basis of Credit-modular System of Future Teachers of Informatics Training". Academic status: Associate Professor of Computer Science (2004), Professor of the specialty 13.00.10 – Information Technologies in Education (2013). Prof. Spirin is an expert in the informatization of education and science and information training of students. He has published a number of papers in international journals and volumes in book series, is Deputy Editor-in-Chief of Electronic scientific edition "Information Technologies and Learning Tools", member of the Editorial Boards of the specialized journals "Information Technologies in Education", "Computer in School and Family".

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Notable works: Oleksiuk et al. [147], Osadchyi et al. [149], Spirin [201, 202, 203, 204].

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ital Transformation in Education, Mathematics. She has published a number of papers in international journals and volumes in book series.

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Notable works: Strutynska and Umryk [206, 207, 208], Strutynska et al. [210], Sánchez-Begines et al. [213].

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Dr. *Maria Umryk*, associated professor of the Department of Theoretical Basics of Informatics, Director of the Center for Digital Educational Technologies of National Pedagogical Dragomanov University, Kyiv, Ukraine.

Maria Umryk has Master degree in Mathematics and Informatics, PhD degree in Teaching Theory and Methodology of Computer Science. After obtaining the Doctoral degree (PhD) has 9 years' experience of implementing the results of her work in teaching subjects such as: Computer Science, Information and Communication Technologies, Mathematical logic, Programming, Programming Technologies, Modern programming languages, Organization of distance learning institution of higher education, Applied Informatics, Artificial intelligence, Neural Networks. Also has five years' experience as Senior programmer at Company "Kyivpastrans". She was doing software development for the transport of Kyiv. So the circle of her interests also include programming: Object-Oriented Programming (C#, Delphi), procedural Programming (Turbo Pascal), logical Programming (Prolog), functional Programming (Scheme)). Maria has experience in designing of educational programs for students. She was appointed as Member of work group for designing of the BSc and Master educational programs for preparing future Computer Science Teachers for Robotics specialization.

WWW: https://cutt.ly/5kmBxLM

ORCID: https://orcid.org/0000-0002-0396-0045

Notable works: Morze, Smyrnova-Trybulska and Umryk [135], Morze and Umryk [136], Strutynska and Umryk [209], Umryk [220], Umryk and Biliai [221].

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Dr. *Mayank Vahia*, Tata Institute of Fundamental Research & Narsee Monjee Institute of Management Studies, School of Mathematical Sciences, India.

Mayank Vahia completed his PhD in Astrophysics in 1984 from the Tata Institute of Fundamental Research. The title of his thesis was Charged Particle Emission from Sun. After completing his PhD he continued to work at TIFR until his retirement in 2018 where he

rose to the position of Professor. During his research career in TIFR he worked on making and operating space telescopes that were flown on American, Russian and Indian satellites. For the past two decades he has been interested in history of science and astronomy as well as impact of science on society as well as evolution of civilisations. He has published more 250 research papers during his career out of which more than 50 are on his interest in history of science and astronomy. He has edited 7 books and published 4 books. He has also been deeply interested in Physics and Mathematics education at undergraduate level and pedagogy of education. His current assignment is to create an undergraduate Mathematics programme for the School of Mathematical Sciences that he started. The programme approaches Mathematics as a language into which text from other languages can be translated and the tools of Mathematics can then be used to provide new insights into different fields of learning. He initiated the Astronomy as well as Junior Science Olympiad programmes in India and guided them for more than a decade. He was also the Director of Nehru Planetarium in Mumbai for a year. He is a fellow of several academies nationally and internationally and has been on the list of referees of several national and international journals. He has served on the Governing Council of Deccan College, Pune and Anantacharya Indological Institute, Mumbai and has been on the Board of Studies of Yashwantrao Chauhan Maharashtra Open University. After his retirement he started an innovative School of Mathematical Sciences, at the Narsee Monjee Institute of Management Studies, a Deemed university in Mumbai.

WWW: https://www.tifr.res.in/~vahia/

ORCID: https://orcid.org/0000-0002-2549-6570

Notable works: Apte, Mahajani and Vahia [14], Halkare, Vahia and Orchiston [73], Rao et al. [176], Vahia [222], Vahia and Yadav [223].

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Tetiana Vakaliuk, born in 1983, received a Candidate of Pedagogical Sciences degree from the National Pedagogical Dragomanov University, Ukraine, in 2013, and a Doctor of Pedagogical Sciences degree from the Institute of Information Technologies and Learning Tools of the National Academy of Sciences of Ukraine, in 2019. Since 2019, she has been working in the field of information technologies at the Zhytomyr Polytechnic State University. Her research interests include information technologies, ICT in Education, Cloud technologies. She has published a number of papers in international journals, is a member of editorial boards of Information Technologies and Learning Tools, Zhytomyr Ivan Franko State University Journal: Pedagogical Sciences,

Collection of Scientific Papers of Uman State Pedagogical University.
WWW: https://sites.google.com/view/neota
ORCID: https://orcid.org/0000-0001-6825-4697
Notable works: Vakaliuk et al. [225], Vakaliuk [226, 227], Vakaliuk, Shevchuk and Shevchuk [231], Vakaliuk et al. [232].
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4. Conclusion

The Educational Technology Quarterly journal is an open-access peer-reviewed journal that aims to offer a forum for discussing a wide range of international educational experiences and evaluation approaches. The journal intends to publish works of excellent quality. The journal is poised to adhere to the highest publication ethics standards, thanks to the support of an international team of educational researchers who voluntarily offered to serve on the editorial board. Finally, we invite scholars from all around the world to submit research papers on the pedagogical applications of technology, as long as the subject is broad enough to be of interest to the larger education community. We also welcome systematic review studies and meta-analyses with clear research questions, an analytical framework, and results that are in line with the objectives of the paper. Studies that concentrate on STEM teaching and learning are also important, as are studies that address particular difficulties in boosting students' achievement, methods for encouraging and engaging students, and lessons learned from curriculum and instruction changes based on changes in educational technology in general.

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