3L-Person: Report

Svitlana Lytvynova[1], Oleksandr Burov[1], Nataliia Demeshkant[2], Viacheslav Osadchyi[3] and Serhiy O. Semerikov[4,5,6,2]

[1]*Institute for Digitalisation of Education of the National Academy of Educational Sciences of Ukraine, 9 M. Berlynskoho Str., Kyiv, 04060, Ukraine*

[2]*Pedagogical University of Krakow, Podchorazych, 2, 30-084, Krakow, Poland*

[3]*Bogdan Khmelnitsky Melitopol State Pedagogical University, 20 Hetmanska Str., Melitopol, 72300, Ukraine*

[4]*Kryvyi Rih State Pedagogical University, 54 Gagarin Ave., Kryvyi Rih, 50086, Ukraine*

[5]*Kryvyi Rih National University, 11 Vitalii Matusevych Str., Kryvyi Rih, 50027, Ukraine*

[6]*University of Educational Management, 52A Sichovykh Striltsiv Str., Kyiv, 04053, Ukraine*

Abstract
This is an introductory text to a collection of selected papers from the VI International Workshop on Professional Retraining and Life-Long Learning using ICT: Person-oriented Approach (3L-Person 2021), held in Kherson, Ukraine, on the October 1, 2021. The volume presents the contributions to the workshops affiliated with the ICTERI 2021: the 17th International Conference on ICT in Education, Research, and Industrial Applications.

Keywords
ICTERI 2021, 3L-Person 2021

1. Theme of the Workshop

The Workshop's goal is to bring together researchers and practitioners from areas Information/Communication Technologies (ICT) and Education/Training (E/T), to support the bridging process between ICT opportunities and education/training needs. Their mutual influence is increasingly accelerating, sometimes in unexpected ways, with original ideas and innovative tools, methodologies, methods and synergies that can and must satisfy life-long learning of a person (from school age to retirement), professional training and retraining in view of the person-oriented approach. It covers such topics as ICT tools' design for: remote learning, adaptive

learning, day-to-day support for individual's learning, synthetic learning environment, life-long learning of individuals, learning in the workplace, learning/training process of individuals with special needs, teaching/learning safety and security, vocational training and carrier guiding, etc.

All topics allowing for the appropriate ICTs that could break down the time, space and cultural differences of learners and teachers.

The specific goal of this activity is to facilitate a broader understanding of the promise and pitfalls of these technologies and working (learning/teaching) environments in global education/development settings, with special regard to the human as subject in the system and to the integration of humans with the technical, didactic, and organizational subsystems.

2. The Workshop Aims

(i) The identification of needs and opportunities in which coordinated research efforts are required to expand and understand the emerging technologies in education (such as cloud computing, mobile tools and services, network infrastructures, systems of computer modeling, simulation, AR/VR/MR etc.), their effectiveness, the potential risks, and the potential benefits of new ways to educate, learn and collaborate.

(ii) Contribution of novel ICT in E/T.

(iii) Informing the educators about options for global education in near future.

3. Topics of Interest

- **Personal Learning Environment Design**: person-oriented tools, adaptive and intuitive learning, cloud-based learning environment, social networking, etc.
- **Advanced ICT for Professional Retraining and Training in the Workplace**: cloud-based learning tools, mobile-based learning, learning networking tools, etc.
- **Blended and Remote Learning/Teaching with Emerging ICT**: remote learning and virtual classroom, flipped classroom, network-oriented collaborative learning, home-schooling, etc.
- **Educational Robots, Databases and Language Technologies for Open Learning and Research**: innovative and intelligence tools for data analysis; network labs, robotics learning tools; augmented cognition; machine learning; open learning and research platforms etc.
- **ICT in Education of a Person with Special Needs**: openness and accessibility of education, e-inclusion; using ICT in educating gifted, underachieved, disabled individuals; ICT for a human development, etc.
- **ICT in Education Safety and Security**: human-system integration, human factors, quality evaluation of electronic learning resources, etc.
- **ICT-support of STEM Education and Professional Career**: network labs, robust intelligence, synthetic environment, augmented cognition, 3D technology, systems of computer modeling and simulation, etc.
- **Synthetic learning environment**: AR/VR/MR, AI in education, computer modeling in teaching process etc.

4. Workshop Chairs

Svitlana LYTVYNOVA (s.h.lytvynova@gmail.com), Institute of Information Technologies and Learning Tools of NAES of Ukraine, Ukraine

Alexander BUROV (burov.alexander@gmail.com), Institute of Information Technologies and Learning Tools of NAES of Ukraine, Ukraine

Nataliia DEMESHKANT (demesznat@gmail.com), Pedagogical University of Kracow, Poland

Viacheslav OSADCHYI (poliform55@gmail.com) Bogdan Rhmelnitsky Melitopol State Pedagogical University, Ukraine

5. Program Committee Members

Albert Zigler, University of Erlangen-Nuremberg, Germany

Alexander Burov, Institute for Digitalisation of Education of the National Academy of Educational Sciences of Ukraine, Ukraine

Alla Danilenko, Brest University, Belarus

Paromita Roy, Jagadis Bose National Science Talent Search, India

Liudmyla Chernikova, Municipal Institution «Zaporizhzhia Regional Institute of Postgraduate Pedagogical Education» of Zaporizhzhia Regional Council

Enrico Nardelli, University of Roma "Tor Vergata", Italy

Heidrun Stoeger, Universität Regensburg, Germany

Jose Orlando Gomes, Federal University of Rio de Janeiro, Brazil

Mariia Medvedieva, Umanskyy Derzhavnyy Pedahohichnyy Universytet Imeni Pavla Tychyny, Ukraine

Marselo Soares, Hunan University, China

Mykhailo Medvediev, ADA University, Azerbaijan

Nataliia Demeshkant, Pedagogical University of Kracow, Poland

Oleg Spirin, University of Educational Management, Ukraine

Olena Kuzminska, National University of Life and Environmental Sciences of Ukraine, Ukraine

Olga Kronda, National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"

Olha Pinchuk, Institute for Digitalisation of Education of the National Academy of Educational Sciences of Ukraine, Ukraine

Oksana Melnyk, Institute for the Modernization of Education, Ukraine

Oksana Ovcharyk, Institute for Digitalisation of Education of the National Academy of Educational Sciences of Ukraine, Ukraine

Stefan Svetsky, Slovak University of Technology in Bratislava, Slovakia

Svitlana Lytvynova, Institute for Digitalisation of Education of the National Academy of Educational Sciences of Ukraine, Ukraine

Tetiana Vakaliuk, Zhytomyr Polytechnic State University, Ukraine

Tetyana Oleinik, H. S. Skovoroda Kharkiv National Pedagogical University, Ukraine

Valerii Bykov, Institute for Digitalisation of Education of the National Academy of Educational Sciences of Ukraine, Ukraine
Viacheslav Osadchyi, Bogdan Khmelnitsky Melitopol State Pedagogical University, Ukraine
Waldemar Karwowsky, University of Central Florida, USA
Yevgenij Lavrov, Sumy State University, Ukraine
Yuliya Krylova-Grek, State University of Telecommunications, Kyiv, Ukraine

6. Conclusion

This volume represents the proceedings of the VI International Workshop on Professional Retraining and Life-Long Learning using ICT: Person-oriented Approach (3L-Person 2021), held in Kherson, Ukraine, on the October 1, 2021. It comprises 13 contributed papers [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13] that were carefully peer-reviewed and selected from 39 submissions. Each submission was reviewed by at least 2 program committee members..

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