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**INTERNATIONAL SCIENTIFIC
AND PRACTICAL CONFERENCE
"TRENDS IN THE SCIENTIFIC DEVELOPMENT"**

Vancouver, Canada

September 28 – October 01, 2021

ISBN 978-1-63972-062-0

DOI 10.46299/ISG.2021.II.II

TRENDS IN THE SCIENTIFIC DEVELOPMENT

Abstracts of II International Scientific and Practical Conference

Vancouver, Canada
September 28 – October 01, 2021

TRENDS IN THE SCIENTIFIC DEVELOPMENT

Library of Congress Cataloging-in-Publication Data

UDC 01.1

The II International Science Conference «Trends in the scientific development»,
September 28 – October 01, 2021, Vancouver, Canada. 417 p.

ISBN - 978-1-63972-062-0

DOI - 10.46299/ISG.2021.II.II

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FEATURES OF DISTANCE EDUCATION IN THE FIELD OF COMPUTER SCIENCE IN UKRAINE

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Forced distance learning has become a challenge for all participants in the educational process: students, teachers, pupils, and parents. It turned out to be not easy to organize high-quality training with the use of digital technologies, to inspire and motivate students, to give advice on technical problems. But Ukraine is no exception – no state, no educational system in the world was ready for this [1].

Currently, in Ukraine, distance learning is carried out in accordance with the Regulation on distance learning with changes approved by Order № 1115 of 08.09.2020. According to this Regulation, modern information and communication technologies are the basis for distance education control measures.

Nowadays, the amount of information that should be used, transmitted, assimilated during training is constantly increasing.

It is the growth of information that has led to the emergence of virtual universities and e-learning, because e-resources are the only form that can keep up with the increase in intellectual content. The so-called e-learning acts as a new technological environment for knowledge transfer.

Training of specialists in computer specialties has its own peculiarities, including the remote form of its implementation. The specifics of training specialists in the field of information technology are that they must constantly adapt to changes in the external environment, which is changing rapidly under the influence of the rapid development of computer technology. This especially affects the technology of studying modern computer disciplines related to the areas of artificial intelligence and computer vision systems [2-7].

The teacher of modern computer, technical, mathematical disciplines has a task not only to prepare students in accordance with educational standards but also to promote the formation of professionally important competencies, skills of finding, collecting, and processing necessary information, effective teamwork, project implementation, responsibility not only for themselves but also for the results of teamwork, the desire to independently master new information technologies, specific tools and specialized software.

Such activities require the use of modern e-learning technologies, the development of an open educational environment, and raising the digital competencies of higher education teachers to the appropriate level.

Leading IT companies have an interest in educational institutions due to the need for skilled workers [1, 8]. NIX Solutions has been cooperating with Kharkiv Universities for many years, the company has been successfully creating software products for foreign clients and training IT specialists in its own training center for about 25 years. In addition, the companies involved in the educational process in the Kharkiv region include Soft Serve, Global Logic, Ciklum, Data Art, Sigma Software, Plarium, and many others. At present, most leading educational institutions have laboratories and classrooms equipped with the participation of IT companies, invite company specialists to give guest lectures, hold master classes, etc.

It can be argued that innovative means of information and communication technologies and their competent combination can significantly improve learning outcomes in the field of computer science; they contribute to the comprehensive development of personality, the formation of professional competencies and professional skills, remove territorial boundaries for education and expand limits of professional development of the applicant.

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