

Preface to New Educational Strategies in the Modern Information Space (NESinMIS-2019)*

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Abstract

The article presents a critical review and record of the conference “New Educational Strategies in Modern Information Space - 2019,” held on April 16, 2019 in the Herzen State Pedagogical University of Russia, Saint Petersburg. The main topic of the conference, digital educational environment, included the following thematic sections: general education and vocational school, digital technologies for modern industry, and information systems and technologies.

Keywords: *digital educational environment, modern information space, educational strategies, computer science*

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1 Introduction

On April 16, 2019, the Institute of Computer Science and Technological Education of the Herzen State Pedagogical University of Russia held the annual International Scientific Conference “New Educational Strategies in the Modern Information Space”. It was organized for the 14th time [NESinMIS, 2012, NESinMIS, 2018]. Russian and foreign researchers took part in the conference. Scientists from Spain (University of Extremadura), Slovakia (Constantine the Philosopher University in Nitra), Poland (University of Silesia in Katowice), Moldova (Rybnitsa branch of Pridnestrovian Shevchenko State University) and Ukraine (Borys Grinchenko Kyiv University) joined the event. The geography of Russian cities that took part was diverse: researchers from St. Petersburg, Moscow, Volgograd, and other cities became the participants. The conference was actively attended by educational institutions of St. Petersburg. In addition to the Herzen University, there were researchers from other universities - Peter the Great St. Petersburg Polytechnic University (SPbPU), St. Petersburg National Research University of Information Technologies, Mechanics and Optics (ITMO), Emperor Alexander I St. Petersburg State Transport University (PGUPS), secondary schools of St. Petersburg. The Conference informational support was organized by [NESinMIS-2019](#) site.

2 Topics of Interest

The conference topics concerned

- Digital educational environment: General education and vocational school
- Digital technologies for modern industry
- Information systems and technologies

Analysis of the network discussions results demonstrated that the conference participants showed the greatest interest in the work of the section “Digital educational environment: practices of general education and vocational training”.

3 The Committee members of "New Educational Strategies in Modern Information Space - 2019"

Organizing Committee

Tatiana Noskova Full doctor, professor, The Herzen State Pedagogical University of Russia, Saint-Petersburg, Russian Federation, Chair,

Yulia Zhuk PhD, associate-professor, The Saint-Petersburg State Forest Technical University, Saint-Petersburg, Russian Federation).

Program Committee

Piet Kommers Full doctor, professor UNESCO, The University of Twente, Enschede, The Netherlands, Chair,

Tatiana Noskova Full doctor, professor, The Herzen State Pedagogical University of Russia, Saint-Petersburg, Russian Federation,

Eugenia Smyrnova-Trybulska Full doctor, associate-professor, The University of Silesia in Katowice, Poland,

Olga Granichina, Full Doctor, associate-professor, The Herzen State Pedagogical University of Russia, Saint-Petersburg,

Tatiana Pavlova, PhD, associate-professor, The Herzen State Pedagogical University of Russia, Saint-Petersburg, Russian Federation,

Martin Drlik, PhD, assistant-professor, The Constantine the Philosopher University in Nitra, Slovakia,

Yulia Zhuk, PhD, associate-professor, The Saint-Petersburg State Forest Technical University, Saint-Petersburg, Russian Federation,

Olga Yakovleva, PhD, associate-professor, The Herzen State Pedagogical University of Russia, Saint-Petersburg.

Executive Committee

Olga Yakovleva, PhD, associate-professor, The Herzen State Pedagogical University of Russia, Saint-Petersburg, Russian Federation, Chair,

Xenia Piotrowska, Full Doctor, professor, The Herzen State Pedagogical University of Russia, Saint-Petersburg, Russian Federation,

Tatiana Ust'ygova, PhD student, The Herzen State Pedagogical University of Russia, Saint-Petersburg, Russian Federation

4 Conference Facts

Academic teachers from universities of Spain, Slovakia, and Ukraine took part in the roundtable debates on April 16, 2019 via videoconferencing. In addition to academic teachers, graduate and undergraduate students of the Herzen University, the roundtable debates were attended by their colleagues from the St. Petersburg State University of Aerospace Instrumentation (SUAI), the St. Petersburg Railway Technical College, as well as students from other universities of the city.

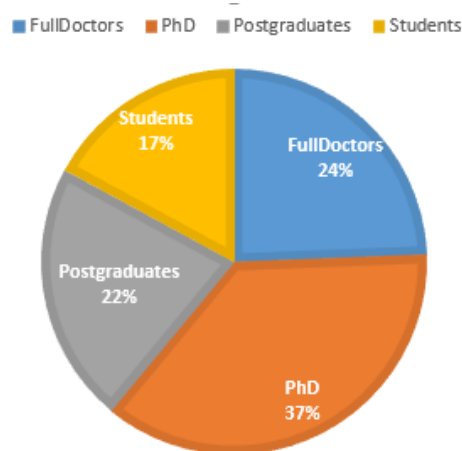


Figure 1: Participants' academic levels

The high research level was proved by the participants' academic level and their research standing: 24% had the status of Full Doctor and 37 % PhD in Computer Science, Pedagogics, Applied Math, Technology and Engineering; 39 % - Postgraduates and students. More than half of the participants (52%) were young scientists under 35 whose interests apportioned the conference topics (Fig. 1).

5 Overview and Program of Accepted Papers

The reports, presented on the Conference, gave the opportunity to draw a broad picture of the modern education development. Concerning higher education, such aspects as an individual educational route, adaptive learning, electronic communication, web-resources design, and educational data mining were discussed. In the vocational training context, the most topical questions of e-learning, developing professional skills (e.g., WorldSkill movement), and students' autonomy were debated. In addition, risks and issues of the electronic environment influence on a person were considered - computer anxiety, and up-bringing in the electronic informational and educational environment.

PROGRAM

16th Aprile 2019,
48, Emb. Moiki, Building 2, St.Petersburg, Room 263
9.00 – 9.30 – Registration

9.30 – 12.35 PLENARY SESSION

- 9.30 – Organizing Committee Welcome Speech
- 9.45 – 10.10 Tatiana Noskova, Full Doctor, Herzen State Pedagogical University of Russia. **Implementation of Individual Educational Route Through the Organization of Independent Work of the Student in the Digital Environment**
- 10.10 – 10.35 Svetlana Kalmykova, PhD, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia, Peter Svec, PhD, Constantine the Philosopher University in Nitra, Slovakia. **Adaptive Knowledge Quality Control in E-learning Using the Ranked Algorithm**
- 10.35 – 11.00 Olga Yakovleva, PhD, Herzen State Pedagogical University of Russia. **Designing an Electronic Communication Resource: a Practical Experience of Shaping Advanced Professional Competencies for Future Teachers**
- 11.00 – 11.25 Alexey Sergeev, Full Doctor, Volgograd State Social and Pedagogical University, Russia. **Development of an Instrumental Planning System for Assessment Materials of Basic Professional Educational Programs**
- 11.30 – 11. 45. BREAK
- 11.45 – 12.10 Tatiana Noskova, Full Doctor, Svetlana Kulikova, PhD, Herzen State Pedagogical University of Russia. **Communication Models in the Digital Learning Environment**
- 12.10 – 12.35 Evgenya Baranova, Full Doctor, Guliya Gizatullina, Master degree student,

Herzen State Pedagogical University of Russia. **Model of the Web-resource «Dean's Office», as a Component of the Integrated Learning Management System**

LUNCH

14.00 – 16.45 (Room 263) ROUND TABLE

Digital Technologies for Modern Industry, Information Systems and Education Technologies

Tatiana Pavlova, Evgenya Baranova – moderators

14.00 – 14.15 Tatiana Noskova, Full Doctor, Tatiana Pavlova, PhD, Olga Yakovleva, PhD, Herzen State Pedagogical University of Russia; Nataliia Morze, Full Doctor, Borys Grinchenko Kyiv University, Ukraine; Sixto Cubo-Delgado, Full Doctor, Laura Alonso-Díaz, PhD, University of Extremadura, Spain. **The Use of ICT Tools by Academic Teachers in the International Comparative Context**

14.15 – 15.30 Vladimir Fomin, Full Doctor, Aleksander Osochkin, PhD Student, Herzen State Pedagogical University of Russia; Yulia Zhuk, PhD, Saint-Petersburg State Forest Technical University, Russia. **Frequency and Morphological Patterns of Recognition and Thematic Classification of Essay and Full Text Scientific Publications**

15.30 – 15.45 Xenia Piotrowska, Full Doctor, Ekaterina Terbusheva, PhD Student, Herzen State Pedagogical University of Russia. **Educational Data Mining for Future Educational Employees**

15.45 – 16.00 Evgenya Baranova, Full Doctor, German Shvetsov, PhD Student, Herzen State Pedagogical University of Russia. **Modern Technologies for the Implementation of Web-resources**

16.00 – 16.15 BREAK

16.15-18.00 PANEL TALKS

Digital educational environment: General education and vocational school

Olga Yakovleva – moderator

1. Alexey Bessolicin, PhD, Andrey Grachev, PhD, Natalya Fedorova, Emperor Alexander I St. Petersburg State Transport University, Russia. **Information Technologies Used in the Training of Railway Transport Specialists**
2. Svetlana Voronina, Master degree student, Ivan Shutov, PhD, Emperor Alexander I St. Petersburg State Transport University, Russia. **Innovative Teaching Technologies for Students Within the Framework of Personnel Training for the Project “Digital railway”**
3. Alyona Vasileva, PhD Student, Emperor Alexander I St. Petersburg State Transport University, Russia. **Control of Independent Work of Foreign Students in Mathematics in the LMS Moodle**

4. Seville Vekilova, PhD, Galina Semenova, PhD, Herzen State Pedagogical University of Russia. **Computer Anxiety Of Teachers As A Manifestation Of Resistance To Growth In The Digital Educational Environment**
5. Victoria Zabolotnaya, Rybnitsa branch of Pridnestrovian Shevchenko State University, Moldova. **Implementation of Interdisciplinary Connections in Teaching Informatics Engineering Students**
6. Tatiana Zoltner, Master degree student, Elene Tumaleva, PhD, Herzen State Pedagogical University of Russia. **Interaction with Parents of Preschool Children with General Underdevelopment of Speech in the Digital Educational Environment**
7. Olga Golubeva, Master degree student, Herzen State Pedagogical University of Russia. **Electronic Assessment Tools as an Integrative Element of the Combined Lesson**
8. Anna Kazannikova, PhD, Elene Starovoytova, PhD, State Budgetary Educational Institution progymnasium «Raduga» № 624, Saint-Petersburg, Russia. **Digital Learning Environment : Practical Expertise of Work for Preschool General Primary School Levels**
9. Natalya Kozina, PhD Student, Herzen State Pedagogical University of Russia. **The Role of the Specifically Designed E-learning Environment in Bachelor's of Technology Education Preparing**
10. Sergei Kostousov, PhD Student, Herzen State Pedagogical University of Russia. **Application of Visual Modelling Tools on Informatics Lessons During Problem-solving Approach**
11. Svetlana Kulikova, PhD, Olga Kunina, Master degree student, Herzen State Pedagogical University of Russia. **Informatization of Preschool Education: the Involvement of Parents in the Educational Process**
12. Tatiana Repina, St Petersburg University, Russia. **Information and Communication Technologies in the Higher Education System Implemented in Teaching a Foreign Language**
13. Olga Yakovleva, PhD, the Herzen State Pedagogical University of Russia. **Features of Professional Up-bringing in the Electronic Information and Educational Environment**
14. Olga Yakovleva, PhD, Elizaveta Isaeva, Master degree student, Herzen State Pedagogical University of Russia. **Information Educational Environment for the Individualization of Childrens' Foreign Language Teaching : a Study of Parents' Opinion**
15. Olga Yakovleva, PhD, Herzen State Pedagogical University of Russia; Ludmila Yagodnik, School № 213, Saint-Petersburg, Russia. **Practical Experience of Information Technology Use for Project Activities on the English Lessons**

16. Natalya Matrosova (PhD Student), Dmitry Shtennikov, St. Petersburg National Research University of Information Technologies, Mechanics and Optics, Russia. **Saaty-method as a Solution to the «Cold start» Problem for Building Individual Educational Trajectories in E-learning Systems**
17. Veronika Shomysova, PhD Student, the Herzen State Pedagogical University of Russia. **Methodology for Pedagogics Students Teaching to the Development of Electronic Educational Resources in the Context of Digital of Education**

6 Acknowledgments

The conference would not have been possible without the support of many people. First of all, we would like to thank all the authors who submitted papers to "New Educational Strategies in the Modern Information Space - 2019" and thus demonstrated their interest in the research problems within our scope. We are very grateful to the members of our Program Committee for providing timely and thorough reviews and, also, for being cooperative in doing additional review work. We would like to thank the local organizers of the conference whose devotion and efficiency made this instance of New Educational Strategies in the Modern Information Space a very interesting and effective scientific forum.

References

- [NESinMIS, 2012] New Educational Strategies in Modern Informational Space. (2012). Proceedings of Scientific Conference. Ed. by T. Noskova et al. Desember, 2, 2012, Saint-Petersburg, Russia. 208 p.(In Rus.) = Novye obrazovatel'nye strategii v sovremennom informacionnom prostranstve: Sbornik nauchnyh statei. SPb.: Izd-vo Lema, 2012. - 208 s. Available at <http://fit-herzen-conf.ru/pdf/2011-12.pdf>
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