

Association for the Development of the Information Society

in collaboration with



Institute of Mathematics
and Informatics,
Bulgarian Academy
of Sciences



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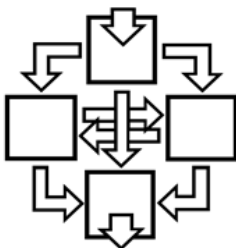


Plovdiv University
"Paisii Hilendarski"



Universities for Science,
Informatics
and Technologies
in eSociety

14th International Conference *Education and Research in the Information Society*



PROGRAM

September 27 – 28, 2021
Plovdiv, Bulgaria

September 27, 2021 (Monday)

Opening session

Chair: Ivan Koychev

10:30 Welcome Addresses

10:40 **Maria Nisheva-Pavlova.** *AI Courses for Secondary and High School – Comparative Analysis and Conclusions*

Session I: Knowledge Discovery from Data and Text

Chair: Avram Eskenazi

11:00 **Mariya Zhekova, George Pashev, George Totkov, Silvia Gaftandzhieva.** *Automated Extraction of Values of Quantitative Indicators to a Quality Evaluation System Using Natural Language Analysis Tools*

11:20 **Todor Tsonkov, Gergana Lazarova, Valentin Zmiycharov, Ivan Koychev.** *A Comparative Study of Extractive and Abstractive Approaches for Automatic Text Summarization on Scientific Texts*

11:40 **Mariya Zhekova, George Pashev, George Totkov.** *Implementing Semantic Search in Decision Support System*

12:00 Coffee break

Session II: Data Mining Applications

Chair: Maria Nisheva-Pavlova

12:20 **Karina Agafonova, Kseniya Bekisheva, Olga Drabenia, Arina Petrova, Krassimira Ivanova.** *How do People Read Science Fiction and Why it is Popular: Common Tendencies and Comparative Analysis*

12:40 **Milena Dobрева.** *Disinformation Research in Smaller Languages. A Case Study and First Steps in Bulgaria*

13:00 Lunch break

Session III: Intelligent Systems

Chair: Reneta Barneva

15:00 **Magda Marek.** *Aspects of Road Safety: A Case of Education by Research – Analysis of Parameters Affecting Accidents*

15:20 **Bozhan Orozov, Daniela Orozova.** *An AI Application in E-Learning*

15:40 **Georgi Tuparov, Daniela Tuparova.** *Gamification in Higher Education – a Pilot Study with SQL Course*

16:00 Coffee break

Session IV: Analytics in Education

Chair: Elena Somova

16:20 **Rositsa Doneva, Silvia Gaftandzhieva, Stanislava Bandeda.** *Data Analytics Tools in Higher Education*

16:40 **Rositsa Doneva, Silvia Gaftandzhieva, Stanislava Bandeda.** *Best Practices for Using Data Analytics Tools in Universities: State-of-Play*

17:00 **Stoyan Denchev, Kristina Varbanova-Dencheva.** *Education 4.0 - 5.0 and the Post-Information Transformation of University Libraries*

17:20 **Silvia Gaftandzhieva, Rositsa Doneva, Mariya Docheva.** *Digital Maturity Level of Bulgarian Primary and Secondary Schools*

17:40 **Juliana Peneva.** *The Forced Transition to Distance Learning - a Challenge for the Overall Educational Process*

18:00 Cocktail

September 28, 2021 (Tuesday)

Session V: Programming Elements

Chair: Krassimira Ivanova

10:00 **Nikolay Handzhiyski, Elena Somova.** *The Expressive Power of the Statically Typed Concrete Syntax Trees*

10:20 **Boyko Bantchev.** *Computing at our Fingertips: Four Sketches*

10:40 Coffee break

Workshop of DISTILL project: Digital Transformation in Culture and Arts

Chair: Milena Dobreva

11:00 **Introduction**

11:10 **Andrija Sagic.** *What is Digital Transformation?*

11:30 **Tamara Butigan-Vučaj.** *The Digital Collections of the National Library of Serbia in the Europeana Ecosystem*

11:50 **Zlatogor Minchev, Gabriela Chavгова.** *Mixed Realities Future Security Outlook*

12:10 Lunch break

Workshop: Recent Advances in Information Theory, Practice and Education

Chair: Kristina Varbanova-Dencheva

14:00 **Петя Бъркалова, Ива Неделева.** *Синтактичната игра „Питанките на Месиза“ – реструктуриране и стъпки към нови платформи*

14:20 **Весела Статкова.** *Виртуални театрални пространства и сериозни игри – аспекти и значение на визуалния стил*

14:40 **Радостина Денчева, Агнеса Цветкова.** *Синергия между образованието и бизнеса за креативните професии в дигитална среда*

15:00 **Деница Младенова.** *Потенциалът на интелигентната специализация за опазване и социализация на културното наследство*

15:20 **Кристина Върбанова-Денчева.** *Библиометрия и научни изследвания – нови приложения на традиционни методи*

15:40 **Closing Ceremony**