



7th International Scientific Conference Technics and Informatics in Education

Faculty of Technical Sciences, Čačak, Serbia, 25-27th May 2018

Friday, 25th May

FH	14 ⁰⁰ – 16 ⁰⁰
232	16 ⁰⁰ – 18 ⁰⁰

Registration

Round Table – University education of the teachers of technics and IT in the region

Saturday, 26th May

FH	08 ⁰⁰ – 10 ⁰⁰
A	10 ⁰⁰ – 11 ⁰⁰
A	11 ⁰⁰ – 13 ⁰⁰

Registration

Conference Opening

Plenary Session: Keynotes

P1 Conceptualization of Technology as a Curriculum Framework of Technology Education

D. Purković

P2 Formal Education in Data Science – A Perspective of Serbia

I. Luković

P3 New approaches in designing educational assessment instruments and its use in international (assessment) studies: What's new in PISA 2018?

D. Pavlović Babić

FH	13 ⁰⁰ – 14 ⁰⁰
	14 ⁰⁰ – 18 ⁰⁰

Cocktail

Parallel Sessions:

1. Technics, Technology and Informatics in Education
2. IT Education and Practice
3. Engineering Education and Practice

14
15
17

Sunday, 27th May

FH	10 ⁰⁰ – 11 ⁰⁰
232	11 ⁰⁰ – 12 ⁰⁰

Poster Presentation – Research in the field of technical sciences and teaching

Round Table – The contribution of research projects supported by the Ministry of Education, Science and Technological Development to the development of technical education in Serbian schools - presentation of the main results

L	10 ⁰⁰ – 12 ⁰⁰
232	12 ³⁰ – 14 ⁰⁰

Visit to the laboratories of the Faculty of technical sciences

Chairmen reports

Selecting the best conference paper

Closing remarks



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Session 1: Technics, Technology and Informatics in Education

Chair: Veljko Aleksić, PhD

OC Member: Milan Marjanović

1. Application of interactive whiteboard in the consideration of concepts pollination and pollinators
Draganić, Stefanović, Mijakovac, Stanisavljević, Stanisavljević
2. ICT and art education
Ilić, Stojanović-Dorđević, Šiki-Erski
3. Learning to Sing Byzantine Music Online: The Intersection of Rich Content Education and Special Education
Politis, Margounakis, Tzimas, Kazdaridis, Paris, Aleksić
4. Educational software for learning psychics - combination of simulations and formative assessment
Dorić, Lambić, Jovanović
5. Programming and Simulation of Model Controls in Teaching Technics and Informatics
Kreculj, Jovišić, Manojlović, Minić
6. Video Games - Influence on Children's Cognitive Abilities
Arsović, Zlatić
7. Video Conference in Terms of Application of ICT in Education
Gavrilović, Pravdić
8. Application of a remote experiment in elementary school teaching
Diković
9. Enhancing Teaching and Learning in Greece by Implementation of ICT in Educational System
Obradović, Moumou, Moumou, Sidiropoulou, Sidiropoulou
10. The contribution of information technology in the education of high school students with visual impairment
Žigić, Savković, Mačešić-Petrović, Veselinović
11. Implementation of the Lean concept within Smart School Management
Puzović, Paunović, Vesić Vasović
12. Predictive Analytics for Students' Success
Pokrajac, Mladenović
13. Future belongs to innovative and ICT skilled nations - is Serbia ready?
Pecić
14. Professional orientation of secondary school students of economics
Petrović, Popović Božanić
15. Grammar School Graduates' Professional Decision-Making and Higher Education Orientation
Milovanović, Kićanović, Dunjić Mandić, Dorić
16. Application of statistics for the analysis of results achieved in primary education
Mijailović, Lazarević, Djukić
17. Language of the Internet - change or decline?
Palurović, Tica

Session 2: IT Education and Practice

Chair: Miloš Papić, PhD

OC Member: Katarina Mitrović

1. Cloud Services in Higher Education
Stefanović, Janjić
2. Shifting Education to Cloud: A Reference to Maritime Studies
Bauk, Dlabac
3. The Correlation Between International E-Learning Standards and National Standards of Serbia and Nearby Countries
Knežević
4. Comparative Analysis of E-Learning Standard
Bursać
5. Knowledge Sources in ICS Fields With Daily Intensity of Innovation - „TIE“-2017
Micić, Ružić
6. Comparative Analysis of the Development and Application of Standards for Software Development in Serbia and BiH
Atanasijević
7. Using Web Server Log Files for Analysis and Improvements Related to Study Programs
Stolić, Milošević
8. Will You Bring Your Laptop? Investigating Students' Attitudes Towards BYOD
Milošević, Radović, Ristić
9. Usability Testing in Human-Computer Interaction Classroom
Damnjanović, Mitrović
10. The concept of development of the intelligent tutoring system sensitive to emotions
Veljović
11. Online Reading Strategies Use in English as a Foreign Language in Biotechnical Engineering
Bojović
12. Mechanism for Migrating Data in Relational Databases
Nogo, Vasiljević
13. Information system for obtaining reports on students of the High Technical School of Vocational Studies from Urosevac in Leposavac
Marković, Živković, Marković
14. Knowledge Bases in the Field of Expert Systems and Artificial Intelligence
Pešić
15. An Analysis of User's Information Security Awareness
Đurković, Milošević
16. Benchmark of Web Browsers with Automated Testing Tool
Nogo, Škrkar
17. Software Testing Course in IT Undergraduate Education in Serbia
Šošić, Ristić, Mitrović, Milošević
18. Teaching Adaptability and Code Reuse of Web Applications with the N-tier Architecture: Case study in VS.NET
Kazi, Radosav, Kazi, Cherkashin, Bhatt, Kansara
19. One MCDM Approach to Learning Management Systems Evaluation
Paunović, Puzović, Vesić Vasović
20. Possibility of Deploying COSMOS Operating System on Personal Computer
Đokić, Stanojlović, Vujičić
21. A Mathematical Learning Environment Based on Serbian Language Resources
Radojičić, Obradović, Stanković, Utvić, Kaplar

Session 3: Engineering Education and Practice

Chair: Nedeljko Dučić, PhD

OC Member: Miloš Božić

1. Financial Literacy of Engineering Students - Waiting for PISA 2018 Results in Serbia
Stanisavljević, Stojković
2. Dual/Cooperative Education in Higher Education
Hochrinner, Haas
3. Innovation of University Courses in The Field of Manufacturing Technologies Based on The Implementation of Dual Education
Dučić, Baralić, Slavković
4. A Constructive Approach to Teaching with Robotino®
Pršić, Stojanović, Dorđević
5. Application of the RobotStudio software package for programming assembly robots
Jevremović, Petrović, Čirić, Popadić
6. Creating an Android Weather Forecast Application in the Android Studio
Aleksandrov, Vulović
7. Simulations of Analog Circuits in Multisim Software Suite
Damnjanović, Milošević, Vujičić, Jovanović, Jagodić
8. Differences in Radio Broadcasting between Europe and America: two Separate Models and the Advent of the Digital Audio Broadcasting System
Politis, Nikiforos, Aleksić
9. Arduino Platform Capabilities in Multitasking Environment
Mitrović, Randić
10. Raspberry Pi module clustering and cluster application capabilities
Mitrović, Marković, Randić
11. Multifunctional Solar Park with "+five in one"
Nađ, Glišić, Radak, Nađ, Živanić
12. Photovoltaic Laboratory Trainer in Student Educations for Renewable Energy Sources
Štatkić, Arsić, Milkić, Čukarić
13. The Magnetoimpedance Effect Principles of Measuring
Surla, Mitrović, Orelj, Joksimović
14. A tomographic method for determining the distance between standing wave anti-nodes and the frequency of electromagnetic radiation inside a microwave oven
Luković, Kalezić-Glišović, Nedeljković, Antić
15. Educational Laboratory Setup for Electric Current Measurement using Hall Effect Current Sensors
Luković, Koprivica, Milovanović
16. Virtual Instrumentation for Load Cell - Calibration and Measurements
Milosavljević, Milovanović, Koprivica
17. Application of Induction Machine U/f Control Through the Educational Laboratory Setup
Rosić, Bjekić, Šučurović
18. Realization of Model of Robotic Arm S-430iF for Education Purposes
Vujičić, Milićević, Dragičević, Marjanović
19. Application of Computer Simulation in Engineering Education
Marjanović, Dragičević, Milićević, Popović, Vujičić
20. Design of 3D Virtual Classroom in Second Life for Metal Cutting Technology Course
Mitrović, Radović
21. Numerical Analysis of The Profile in the Aero Tunnel
Terzić, Aleksandrov, Todorović
22. Health Care Analysis Using Statistics
Pešić, Lazarević, Đukić
23. Student Attitudes about Cheating in High Education
Papić, Blagojević, Hochrinner, Kraguljac