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📅 Conference Agenda

Overview and details of the sessions of this conference. Please select a date or location to show only sessions at that day or location. Please select a single session for detailed view (with abstracts and downloads if available).

Please note that all times are shown in the time zone of the conference. **The current conference time is: 13th Aug 2021, 12:15:51am EEST**

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Session Overview

Date: Tuesday, 22/Sept/2020

- 10:20am **Workshop 2: Teaching Environmentally and Sustainability-Conscious Design Projects in Higher Education, using GRANTA EduPack**
Location: **VR1**
- 11:50am Chair: **Tatiana Vadimovna Vakhitova**, ANSYS Granta
Facilitator: Vakhitova Tatiana Vadimovna PhD, ANSYS Granta / Academic Relations Team (UK)
- 12:00pm **Workshop 1: Decentralising Education Using Blockchain Technology**
Location: **VR1**
- 1:00pm Facilitator: Dr. Alexander Mikroyannidis, Knowledge Media Institute, The Open University (UK)
- 1:10pm **Workshop 3: Idea Generation Board Game for Product Development "Create Products"**
Location: **VR1**
- 2:40pm Facilitators: Erich Scheffl (Mag.Ing) and Jürgen Jantschgi, DI. (Austria)
- 2:50pm **Workshop 4: IGIP Workshop on methodologies to build conceptual questions for assessing important misconceptions in engineering related areas**
Location: **VR1**
- 4:20pm Facilitators: Prof Teresa Restivo and Prof Diana Urbano (Portugal)

<https://videoconf-colibri.zoom.us/j/97168668952?pwd=V0lNMjZzZSBrUlg5SkJhTmluTVVMQT09>

Meeting ID: 971 6866 8952
Password : 453870

Date: Wednesday, 23/Sept/2020

- 10:00am **Opening Ceremony: Opening Ceremony**
Location: **VR1**
- 11:00am Chair: **Michael E. Auer**, FH Kärnten
Chair: **Tiia Rüttnann**, Tallinn University of Technology
- 11:00am **Plenary Session 1: Plenary Session 1**
Location: **VR1**
- 11:50am Chair: **Tiia Rüttnann**, Tallinn University of Technology
- Keynote speech by Prof Tarmo Soomere (President of Estonian Academy of Science, Professor at Tallinn University of Technology, Estonia)**
"Connecting Science, Training, Society and Policy"
- 11:50am **CB1: Coffee Break 1**
- 12:00pm
- 12:00pm **PS 1A: Parallel Session 1A**
Location: **VR1**
Chair: **Jaanus Pöial**, Tallinn University of Technology
- 12:00pm - 12:13pm
Motivating Students to Acquire Digital Skills
Reinhard Bernsteiner¹, Christian Ploder¹, Thomas Dilger¹, Andreas Probst²
1: Management Center Innsbruck (MCI), Austria; 2: HTL Weis
- 12:13pm - 12:26pm
A Digital Services Course to Promote Teaching of Informatics in Estonia
Kaido Kikkas, Birgy Lorenz
Tallinn University of Technology, Estonia
- 12:00pm **PS 1B: Parallel Session 1B**
Location: **VR2**
Session chair **Kashif Mahmood**, Tallinn University of Technology
- 12:00pm - 12:13pm
Innovative Common Study Block Framework for joined collaborative curriculums development.
Eduard Shevtshenko^{1,2}, Kati Nõuakas¹, Lea Murumaa¹, Oliver Kallas¹, Tatjana Karaulova²
1: TTK University of Applied Sciences, Estonia; 2: Tallinn University of Technology, Estonia
- 12:13pm - 12:26pm
Experience in an application of project-based
- 12:00pm **PS 1C: Parallel Session 1C**
Location: **VR3**
Chair: **Tarvo Niine**, Tallinn University of Technology
- 12:00pm - 12:13pm
Developing Engineering Students Writing Competence: An Intervention Based on Formative and Peer Assessment
Tom O'Mahony
Cork Institute of Technology, Ireland
- 12:13pm - 12:26pm
Achievement Motivation of Engineering High School Students in Relation to the Choice of School and Ideas of Study
Josef Malach, Dana Vicherková, Milan Chmura, Veronika Švrčinová

<p>12:26pm - 12:39pm Digital Transformation of Interdisciplinary Engineering Education Brit-Maren Block, Benedikt Haus, Anton Steenken, Torge von Geysso Leuphana University Lüneburg, Germany</p>	<p>learning to teaching of Mechanical Engineering and Energy Technology Processes Control Aleksei Höbesaar, Veroonika Shirokova, Tatjana Baraškova Tallinn University of Technology, Virumaa College, Estonia</p>	<p>University of Ostrava Faculty of Education, Czech Republic</p> <p>12:26pm - 12:39pm The MopBot Cleaning Robot – An EPS@ISEP 2020 Project Corina Tuluc¹, Frederique Verberne¹, Szymon Lasota¹, Tomás Almeida¹, Benedita Malheiro^{1,2}, Cristina Ribeiro^{1,3,4}, Jorge Justo¹, Manuel F. Silva^{1,2}, Paulo Ferreira¹, Pedro Guedes^{1,2} 1: ISEP - School of Engineering of the Polytechnic of Porto, Portugal; 2: INESC TEC; 3: i3S - Instituto de Investigação e Inovação em Saúde, Universidade do Porto; 4: INEB - Instituto de Engenharia Biomédica, Universidade do Porto</p>
<p>12:39pm - 12:52pm Evaluating Construction Education Interventions Theophilus Olowa, Emlyn Witt, Irene Lill Tallinn University of Technology, Estonia</p>	<p>12:26pm - 12:39pm A Method for Generation of Multiple-Choice Questions and Their Quality Assessment Aleksandr Saiapin Siberian State University of Science and Technologies, Russian Federation</p>	<p>12:39pm - 12:52pm Applying Strategies of Higher-level Thinking in Pre-gradual Preparation of Technical Subject Teachers Monika Valentová, Peter Brečka, Alena Hašková Constantine the Philosopher University in Nitra, Slovak Republic</p>
<p>12:52pm - 1:05pm Experiences from a Pilot Project to Efficiently add Subtitles to an Open Source Lecture Recording Environment Herwig Rehatschek, Marie Moriz Medical University of Graz, Austria</p>	<p>12:39pm - 12:52pm Effects of Competitive Coding Games on Novice Programmers Konrad Fischer, Sarah Vaupel, Niels Heller, Sebastian Mader, François Bry Ludwig Maximilian University of Munich, Germany</p>	<p>12:52pm - 1:05pm Requirements on Math and ICT Competences Within the Study Branches Transport and Automotive Service and Repair Alena Hašková¹, Dominik Zatkalik¹, Martin Zatkalik² 1: Constantine the Philosopher University in Nitra, Slovak Republic; 2: Upper Secondary Vocational School for Transport in Bratislava, Slovak Republic</p>
<p>1:05pm - 1:18pm Case Study in Experiential Learning - From Chaos to Order: Sensemaking With the Interactive Timeline Tool in Architecture and Civil Engineering Studies Nele Nutt¹, Sirle Salmistu¹, Cassi Meit², Katrin Karu³ 1: Tartu College, School of Engineering, Tallinn University of Technology, Estonia; 2: School of Planning, Design and Construction, Michigan State University, East Lansing, MI, USA; 3: School of Educational Sciences, Tallinn University, Estonia</p>	<p>12:52pm - 1:05pm E-inclusion Prediction Modelling in Blended Learning Courses Ieva Vitolina, Atis Kapenieks Riga Technical University, Latvia</p>	<p>1:05pm - 1:18pm Challenges of Teaching Programming in StackOverflow Era Jaanus Pöial Tallinn University of Technology, School of Information Technologies, IT College, Estonia</p>
<p>1:18pm - 1:29pm Challenges of Teaching Programming in StackOverflow Era Jaanus Pöial Tallinn University of Technology, School of Information Technologies, IT College, Estonia</p>	<p>1:05pm - 1:18pm Fostering Natural and Data Science Skills of School Kids Alexander Nussbaumer¹, Christina M. Steiner-Stanitznig¹, Silke Luttenberger², Sylvia M. Ebner², Christian Gütl¹ 1: Graz University of Technology, Austria; 2: University College of Teacher Education Styria, Austria</p>	<p>1:18pm - 1:29pm Optimization of Curricula of Engineering and Pedagogical Specialties Based on the Construction of a Model for Structuring Interdisciplinary Relations Olena Kovalenko¹, Nataliia Briukhanova¹, Tetiana Bondarenko¹, Tatjana Yaschun¹, Juergen Koeberlein-Kerler², Nataliia Bozhko¹ 1: Ukrainian Engineering Pedagogics Academy, Ukraine; 2: The University of Applied Sciences Würzburg-Schweinfurt, Germany</p>
<p>1:18pm - 1:29pm Challenges of Teaching Programming in StackOverflow Era Jaanus Pöial Tallinn University of Technology, School of Information Technologies, IT College, Estonia</p>	<p>1:18pm - 1:29pm Optimization of Curricula of Engineering and Pedagogical Specialties Based on the Construction of a Model for Structuring Interdisciplinary Relations Olena Kovalenko¹, Nataliia Briukhanova¹, Tetiana Bondarenko¹, Tatjana Yaschun¹, Juergen Koeberlein-Kerler², Nataliia Bozhko¹ 1: Ukrainian Engineering Pedagogics Academy, Ukraine; 2: The University of Applied Sciences Würzburg-Schweinfurt, Germany</p>	<p>1:05pm - 1:18pm The EPUM Platform: A Novel Collaboration Paradigm Christos Mettouris, Evangelia Vanezi, Theodora Kosti, Alexandros Yeratziotis, Nadia Charalambous, George A. Papadopoulos University of Cyprus, Cyprus</p>
<p>1:30pm - 2:30pm L 1: Lunch Break 1</p> <p>2:30pm - 4:00pm PS 2A: Parallel Session 2A Location: VR1 Chair: Emlyn David Witt, Tallinn University of Technology</p>	<p>1:18pm - 1:29pm Optimization of Curricula of Engineering and Pedagogical Specialties Based on the Construction of a Model for Structuring Interdisciplinary Relations Olena Kovalenko¹, Nataliia Briukhanova¹, Tetiana Bondarenko¹, Tatjana Yaschun¹, Juergen Koeberlein-Kerler², Nataliia Bozhko¹ 1: Ukrainian Engineering Pedagogics Academy, Ukraine; 2: The University of Applied Sciences Würzburg-Schweinfurt, Germany</p>	<p>1:18pm - 1:29pm Virtual Environments for Smart House System Studying Anzhelika Parkhomenko¹, Olga Gladkova¹, Yaroslav Zalyubovskiy¹, Andriy Parkhomenko¹, Artem Tulenkov¹, Marina Kalinina¹, Karsten Henke², Heinz-Dietrich Wuttke² 1: National University "Zaporizhzhia Polytechnic", Ukraine; 2: Ilmenau University of Technology, Germany</p>
<p>2:30pm - 2:43pm MOOCs in Logistics – Preliminary Data on University Curricula Coverage Tarvo Niine¹, Franca Cantoni², Miguel Córdova³ 1: TalTech School of Business and Governance, Tallinn University of Technology, Estonia; 2: Department of Social Sciences and Economics, Università Cattolica del Sacro Cuore, Italy; 3: Department of Management Sciences, Pontificia Universidad Católica del Perú, Peru</p>	<p>2:30pm - 2:43pm Using Competency Mapping for Skills Assessment in an Introductory Cybersecurity Course Sten Måses¹, Olaf Maennel¹, Stefan Sütterlin² 1: Tallinn University of Technology (TalTech), Estonia; 2: Ostfold University College, Norway</p>	<p>2:30pm - 2:43pm Occupational Qualification Standard for Truck Drivers as a Risk Management Tool in Road Transportation of Dangerous Goods Jelizaveta Janno, Ott Koppel Tallinn University of Technology, Estonia</p>
<p>2:43pm - 2:56pm Real and Virtual Lab Activities and the Effect of the Switching of their Order in Teaching Science Concepts to Students With Learning Difficulties –A Case Study Charilaos Tsihouridis¹, Marianthi Batsila², Dennis Vavougios³ 1: University of Thessaly, Department of Special Education, Volos, Greece; 2: Directorate of Secondary Education, Ministry of Education, Greece; 3: University of Thessaly, Department of Special Education, Volos, Greece</p>	<p>2:43pm - 2:56pm Cybertraining – A Development By Using A Holonic Control Structure Dorin Isoc, Amalia Isoc, Teodora Surubaru GRAUR (Group for Reform and University Reform), Romania</p>	<p>2:43pm - 2:56pm Systematic Assessment of Interactive Instructional Technologies in Higher Engineering Education Aurelia Clupe, Serban Meza, Bogdan Orza Technical University of Cluj-Napoca, Romania</p>
<p>2:56pm - 3:09pm STEM4Girls-Workshop on Machine Learning Veronika Thurner, Johanna Sickendiek University of Applied Sciences Munich, Germany</p>	<p>2:56pm - 3:09pm Emotion Analysis in Distance Learning Dalila Alves Durães¹, Paulo Novais³, Rámon Toala² 1: Algoritmi Center, University of Minho, Portugal; 2: Technical University of Manabí, Portoviejo, Manabí Ecuador; 3: CIICESI, ESTG, Instituto Politécnico do Porto, Portugal</p>	<p>2:56pm - 3:09pm SCool: Impact On Human-Computer Interface Improvements On Learner Experience In A Game-Based Learning Platform Martin Sackl¹, Alexander Steinmaurer¹, Christopher Cheong², France Cheong², Justin Filippou³, Christian Gueti¹ 1: Graz University of Technology, Austria; 2: Royal Melbourne Institute of Technology, Australia; 3: University of Melbourne, Australia</p>
<p>3:09pm - 3:22pm</p>	<p>3:09pm - 3:22pm Case Study on the Engineering Academic Staff Needs and Competencies in the Context of Sustainable Development Anda Zeidmane¹, Anna Vintere²</p>	<p>3:09pm - 3:22pm The Development of the Multifunctional Digital Platform for Distance Learning and</p>

Smart Bicycle Probe – an EPS@ISEP 2020 Project

Juho Ruusunen¹, Kaan Isik¹, Logan Smith¹, Melissa Boullaras¹, Zuzanna Szmytko¹, Benedicta Malheiro^{1,2}, Cristina Ribeiro^{1,3}, Jorge Justo¹, Manuel Silva^{1,2}, Paulo Ferreira¹, Pedro Guedes^{1,2}
 1: Instituto Superior de Engenharia do Porto, Portugal; 2: INESC TEC, Porto, Portugal; 3: INEB – Instituto de Engenharia Biomédica, Porto, Portugal

3:22pm - 3:35pm

Screening Executive Functions of Preschool children via a Web Application.

Nikolaos C. Zygouris, Kafenia Botsoglou, Antonios Dadalariis, Georgios Dimitriou, Daniil Trontsios, Georgios I Stamoulis, Denis Vavougios
 University of Thessaly, Greece

3:35pm - 3:48pm

Teaching Project Risk Management in a BIM-enabled Learning Environment

Emlyn Witt, Theophilus Olowa, Irene Lill
 Tallinn University of Technology, Estonia

3:48pm - 3:59pm

Application of Microfluidic Techniques to Experimental Research of Engineering Students

Artem Bezrukov, Dilbar Sultanova
 Kazan National Research Technological University, Russian Federation

1: Latvia University of Life Sciences and Technologies, Latvia; 2: Latvia University of Life Sciences and Technologies, Latvia

3:22pm - 3:35pm

Utilizing NLP Tools for the Creation of School Educational Games

Aristides Vagelatos¹, Maria Fountana¹, Monica Gavrielidou¹, Christos Tsalidis²
 1: CTI&P (Ministry of Education), Greece; 2: Neurocom SA, Greece

3:35pm - 3:48pm

Improving The Teaching-Learning Process In Engineering Trough a Game-Based Web Support System: Edutrivias

Renzo Angles Rojas¹, Luis Silvestre Quiroga¹, Gonzalo Pincheira Orellana¹, Claudia Galarce-Miranda^{1,2}, Diego Gormaz-Lobos^{1,2}
 1: Universidad de Talca, Faculty of Engineering, Chile; 2: International Center of Engineering Education, Universidad de Talca, Chile

3:48pm - 3:59pm

Engineering Students Mobility: Intercultural Barriers to Achieving Intercultural Competences

Valery Vodovozov, Zoja Raud
 Tallinn University of Technology, Estonia

Evolverment "PsyTech" in the Era of Great Challenges.

Anastasia Tabolina, Nadezhda Almazova, Marina Bolsunovskaya, Tatyana Baranova, Olga Kunina, Kseniya Manskova, Inna Yudina
 Peter the Great St.Petersburg Polytechnic University, Russian Federation

3:22pm - 3:35pm

Jewish Orthodox female in Israel Higher Education- A Test Case

Eran Gur
 Azrieli College of Engineering, Israel

3:35pm - 3:48pm

The Role of Metacognition and Critical Thinking for Engineer Students in EFL Learning

Roman Kupriyanov^{1,2}, Elvira Valeyeva¹, Nailiya Sh. Valeyeva¹, Saeed Ketabi³, Tahmineh Khalili³
 1: Kazan National Research Technological University, Russian Federation; 2: Kazan (Volga Region) Federal University, Russian Federation; 3: University of Isfahan, Iran.

3:48pm - 3:59pm

Mastering the Electronic Educational Environment of a University by Educators with a Different Overall Digital Competency Index

Elena Borisovna Gulk¹, Olga Olegovna Kunina¹, Konstantin Pavlovich Zakharov¹, Aleksandra Komarova²
 1: Peter the Great St. Petersburg Polytechnic University, Russian Federation; 2: The Herzen State Pedagogical University of Russia

4:00pm

CB2: Coffee Break 2

4:15pm

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PS 3A: Parallel Session 3A

Location: VR1

Chair: Ivar Annus, Tallinn University of Technology

4:15pm - 4:28pm

Reading Comprehension and Context of the Digital Generation of Secondary Engineering Schools' Pupils in the Czech Republic

Dana Vicherkova, Josef Malach
 University of Ostrava, Czech Republic

4:28pm - 4:41pm

Good Practice of Using Project Education in Technical Subject Teaching

Ivana Tureková, Alena Hašková
 Constantine the Philosopher University in Nitra, Slovak Republic

4:41pm - 4:54pm

Proposal for Laboratory Didactic at an Electrical Engineering Program: A Teaching-Learning Strategy for Laboratory Activities in Electrical Energy Conversion Applications

Diego Gormaz-Lobos¹, Pablo Acuna-Rios², Claudia Galarce-Miranda¹, Steffen Kersten³
 1: Universidad de Talca, Faculty of Engineering, International Center of Engineering Education, Chile; 2: Universidad de Talca, Faculty of Engineering, Chile; 3: Technische Universität Dresden, Faculty of Education, Germany

4:54pm - 5:07pm

Transition from Classroom Teaching to E-learning in a Blink of an Eye

Ivar Annus
 Tallinn University of Technology, Estonia

5:07pm - 5:20pm

Polytech WebQuest as an Organization Form of Students Project Activities

Pavel Kozlovskii, Anastasia Tabolina, Olga Kunina, Inna Yudina, Pavel Sataev, Veronika Fokina
 Peter the Great St.Petersburg Polytechnic University, Russian Federation

5:20pm - 5:33pm

Developing Teacher Professional Competency under the Integration of Russian Universities into the World**PS 3B: Parallel Session 3B**

Location: VR2

Session chair: Mart Saarna, Tallinn University of Technology

4:15pm - 4:28pm

Subtitled and Un-subtitled Movie and Listening Comprehension

Tania Trujillo¹, Ana Jazmina Vera - de la Torre², Dorys Cumbe³

1: Universidad Técnica de Ambato, Ecuador; 2: Universidad Técnica de Ambato, Ecuador; 3: Universidad Técnica de Ambato, Ecuador

4:28pm - 4:41pm

Self-monitoring Strategies to Enhance English Reading Comprehension Skills.

Sandra Cola¹, Wilma Suarez Mosquera², Maryorie Chimbo Cáceres³, Ana Vera - de la Torre⁴

1: Universidad Técnica de Ambato, Ecuador; 2: Universidad Técnica de Ambato, Ecuador; 3: Universidad Técnica de Ambato, Ecuador; 4: Universidad Técnica de Ambato, Ecuador

4:41pm - 4:54pm

Team Building Technologies In Engineering Education

Olga Khatsrinova, Gulnaz Fakhretdinova
 Kazan National Research Technological University, Russian Federation

4:54pm - 5:07pm

A Comparative Study on the Environmental Behavior of Engineering Students

Anna Vintere¹, Eve Aruvee², Daiva Rimkuvieni³

1: Latvia University of Life Sciences and Technologies, Latvia; 2: Estonian University of Life Sciences, Estonia; 3: Vytautas Magnus University, Lithuania

5:07pm - 5:20pm

Academic Maturity and Gender Differences in Students' Expectations from an ICT Study Program: a Survey

Patrizia Poscic, Sanja Candric, Danijela Jaksic
 University of Rijeka, Department of Informatics, Croatia

5:20pm - 5:33pm

A Three Year Analysis Of Engineering Students' Readiness For Remote Learning**PS 3C: Parallel Session 3C**

Location: VR3

Chair: Kaie Maennel, Tallinn University of Technology

4:15pm - 4:28pm

Qring Specialties' Course Elements to Support VET Learners' Cognitive Level

Marianthi Batsila¹, Charilaos Tsihouridis², Anastasios Tsihouridis³

1: Directorate of Secondary Education, Ministry of Education, Greece; 2: University of Thessaly, Department of Special Education, Volos, Greece; 3: Democritus University of Thrace, Greece

4:28pm - 4:41pm

Task-Based Mobile Learning ISC-system: Built-in Coronavirus Immunity Confirmed

Andres Udál, Martin Jaanus, Gunnar Pihoo
 Tallinn University of Technology, Estonia

4:41pm - 4:54pm

Adaptive Starting Points In Video Learning Environments For New Learners Based On Video And Topic Tree Relations

Alexander Lehmann
 Coburg University of Applied Sciences and Arts, Germany

4:54pm - 5:07pm

The Improvement of Engineering Subject Didactics and the Didactic Abilities of Teachers for Teaching Social Sciences Students: Case of Engineering Graphics

Vida Navickienė
 Vilnius Gediminas Technical University, Lithuania

5:07pm - 5:20pm

Remote Technical Labs: an Innovative and Scalable Component for University Cybersecurity Program Admission

Kaie Maennel, Kristian Kivimägi, Stefan Sütterlin, Olaf Maennel, Margus Ernits

Tallinn University of Technology, Estonia

5:20pm - 5:33pm

Emergency Remote Learning during COVID-19: socio-educational impacts on Portuguese students

Luciana Oliveira¹, Anabela Mesquita², Arminda Sequeira¹, Adriana Oliveira¹

1: CEOS.PP ISCAP Polytechnic of Porto, Portugal; 2: ...

Academic Area

Julia Lopukhova¹, Elena Makeeva²
1: Samara State Technical University, Samara, Russian Federation; 2: Samara State University of Social Sciences and Education, Russian Federation

5:33pm - 5:44pm

A New English Course For The Program "International Transport Policy"

Tatiana Polyakova
Moscow Automobile and Road Construction State Technical University (MADI), Russian Federation

And Its Relevance To COVID-19

Anuradha Peramunugamage¹, Hakim Usoof²
1: University of Colombo School of Computing, Sri Lanka; 2: University of Peradeniya, Sri Lanka

5:33pm - 5:44pm

Ontological Visualization of Knowledge Structures Based on the Operational Management of Information Objects

Marina Rostoka¹, Andrii Guraliuk¹, Olha Kuzmenko², Tetiana Bondarenko³, Lyudmyla Petryshyn⁴
1: V.O. Sukhomlynskyi State Scientific and Pedagogical Library of Ukraine, Kiev, Ukraine; 2: Flight Academy of the National Aviation University, Kropyvnytskyi, Ukraine; 3: Ukrainian Engineering Pedagogics Academy, Ukraine; 4: Lviv National Agrarian University, Ukraine

Polytechnic of Porto and Algoritmi RC, Portugal

5:33pm - 5:44pm

Professional Perceptions of Students of The Polytechnic University

Elena Borisovna Gulik, Marina Vasilyevna Olenikova, Tatiana Anatolyevna Baranova, Valeria Viktorovna Khoroshikh
Peter the Great St. Petersburg Polytechnic University, Russian Federation

Date: Thursday, 24/Sept/2020

10:00am

PS 4A: Parallel Session 4A

-

Location: **VR1**

11:30am

Session chair: Mohsen Malayjerdi, Tallinn University of Technology

PS 4B: Parallel Session 4B

Location: **VR2**

Session chair: Marge Kusmin, University of Tallinn

PS 4C: Parallel Session 4C

Location: **VR3**

Chair: Urve Läänemets, Estonian Academy of Music and Theatre

10:00am - 10:13am

Optimizing Experimental Science Learning Outcomes Through the Inquiry Based Method and Team Making Using a Sociometric Software Tool

Charilaos Tschouridis¹, Marianthi Batsila², Nick Petrou³, Dennis Vavougiou¹

1: University of Thessaly, Department of Special Education, Volos, Greece; 2: Secondary Education, Ministry of Education, Greece; 3: Directorate of Secondary Education, Ministry of Education, Greece

10:00am - 10:13am

Online Learning as a Necessary Measure During a Pandemic and as an Opportunity to Increase the Engineering Education Efficiency

Irina Makarova¹, Anton Pashkevich², Polina Buyvol¹, Eduard Muchametdinov¹, Vadim Mavrin¹
1: Kazan Federal University, Russia; 2: Politechnika Krakowska, Poland

10:00am - 10:13am

About the Effectiveness of Different Game Design Elements for an Introductory Programming Course

Andreas Schwarzmann, Dieter Landes, Yvonne Sedelmaier
Coburg University of Applied Sciences, Germany

10:13am - 10:26am

Educational Design Patterns For Student-Centered 21st Century Learning In Technology-Enhanced Learning Environments

Dominik Dolezal^{1,2,3}, Christoph Roschger², Andreas Hahnenkamp¹, Maximilian Mairinger², Daniel Zimmermann², Alexander Satek¹, Gottfried Koppensteiner², Renate Motschnig³

1: University of Applied Sciences Technikum Wien, Austria; 2: TGM - Vienna Institute of Technology, Austria; 3: University of Vienna, Austria

10:13am - 10:26am

Specializing the Teacher Training on a Chilean University and Vocational School: The Case of INACAP

Diego Gormaz-Lobos^{1,2}, Claudia Galarce-Miranda^{1,2}, Hanno Hortsch^{3,4}, Steffen Kersten^{3,5}, Pablo Rojas-Valdes^{1,2}, Carolina Vargas-Almonacid⁶

1: Universidad de Talca, Chile; 2: International Center of Engineering Education, Universidad de Talca, Chile; 3: Technische Universität Dresden, Germany; 4: Germany; 5: International Society of Engineering Pedagogy (IGIP); 6: Ingenieurpädagogische Wissenschaftsgesellschaft (IPW); 5: Ingenieurpädagogische Wissenschaftsgesellschaft (IPW); 6: INACAP, Chile

10:13am - 10:24am

WorldSkills Competition as an Efficient Engineer Training Technology

Alla A. Kaybiyaynen¹, Svetlana E. Matveeva², Irina Viktorovna Pavlova³

1: Kazan National Research Technological University, Russian Federation; 2: Kazan National Research Technological University, Russian Federation; 3: Kazan National Research Technological University, Russian Federation

10:26am - 10:39am

The Blended Teaching and Learning Methods and the Implementation of Online Laboratories in Electrical and Computer Engineering Education Programs

Adrian A. Adăscăliței¹, Ashraf Zein El Din², Sebastian Teodor Arădoaei¹, Marinel Costel Temneanu¹, Marcel Dumitru Istrate¹

1: Faculty of Electrical Engineering, Gh.Asachi Technical University from Iasi, Romania; 2: Faculty of Engineering, Menoufia University, Egypt

10:26am - 10:37am

Professional Development of Financial Managers

Elena Girfanova, Petr Osipov
Kazan National Research Technological University, Russian Federation

10:24am - 10:37am

Reflection Assignment as a Tool to Support Students' Metacognitive Awareness in the Context of Computer-Supported Collaborative Learning

Aleksandra Lazareva
University of Agder, Norway

10:39am - 10:52am

"Search for Physics Laws" — a New Laboratory Course for Engineering Students

Oksana Lozovenko¹, Yevgeny Sokolov¹, Yurii Minaiev²

1: National University "Zaporizhzhia Polytechnic", Ukraine; 2: Zaporizhzhia National University, Ukraine

10:37am - 10:50am

Project-Based Activities as Methodology for Developing Informational and Legal Competences in Future Engineers

Vladimir V. Nasonkin¹, Anna E. Serezhkina², Svetlana V. Barabanova², Maria S. Suntsova², Nataliya V. Nikonova²

1: Russian Peoples' Friendship University; 2: Kazan National Research Technological University, Russian Federation

10:37am - 10:50am

Realization Of Elite Education At Engineering Higher Education Institution

Olga Khatsrinova, Julia Khatsrinova, Veronika Bronskaya
Kazan National Research Technological University, Russian Federation

10:52am - 11:05am

The Lessons of Forced Distance Learning: Software Engineering Approach in the Gap of Generations of Educational Software

Olga Maksimenkova, Ekaterina Beresneva, Maria Gordenko, Alexey Neznanov
National Research University Higher School of Economics, Russian Federation

10:50am - 11:03am

Module Proposal in Mechanical Engineering based on Project Based Learning

Diego Gormaz-Lobos^{1,2}, Gonzalo Pincheira-Orellana¹, Claudia Galarce-Miranda^{1,2}

1: Universidad de Talca, Faculty of Engineering, Chile; 2: International Center of Engineering Education, Universidad de Talca, Chile

10:50am - 11:03am

Developing Cross-cultural Communicative Competence of University Students in the Globalized World

Elena Vyacheslavovna Volkova, Elena Yurievna Semushina, Ekaterina Evgenyevna Tsareva
Kazan national research technological university, Russian Federation

11:05am - 11:18am

LimStorm — a Didactic Card Game for Collaborative Math Learning for Gen Z Students

Attila Kőrei, Szilvia Szilágyi
University of Miskolc, Hungary

11:03am - 11:16am

Developing Intellectual Competence Of Future Biotechnologists In The process Of Learning A Foreign Language

Margarita Alexandrovna Mosina¹, Larisa Alexandrovna Kosolapova², Irina Viktorovna Smirnova³, Farida Rafikovna Khabibrakhmanova⁴

1: Perm State Humanitarian Pedagogical University, Russian Federation; 2: Perm State University, Russian Federation; 3: Perm National Research Polytechnic University, Russian Federation; 4: Perm National Research Polytechnic University, Russian Federation

11:03am - 11:16am

New Concept Of Engineering Education For Sustainable Development Of Society

Ralph Dreher, Vladimir V. Kondratyev, Ulyana A. Kazakova, Mariya N. Kuznetsova
University of Siegen, Germany, Kazan National Research Technological University, Russian Federation

11:18am - 11:29am

Development of Cross-Domain Competences for Work 4.0

Galyna Vladymyryvna Tabunshchik¹, Carsren

	<p>Wolff², Peter Arras³ 1: National University "Zaporizhia Polytechnic", Ukraine; 2: FH Dortmund; 3: KU Leuven</p>	<p>11:16am - 11:29am Examining Technology and Teaching Gaps in Russian Universities Amid Coronavirus Outbreak Elizaveta Osipovskaya¹, Svetlana Dmitrieva², Vadim Grinshkun³ 1: RUDN University; 2: Perm National Research Polytechnic University; 3: Moscow City University</p>	
11:30am	CB3: Coffee Break 3		
11:45am			
11:45am	Plenary 2: Plenary Session 2 Location: VR1 Chair: Tiia Rütütmann , Tallinn University of Technology		
12:35pm	Keynote speech by IGIP President Professor Hanno Horsch (Dresden Technical University, Germany) "New Prototype Curriculum of IGIP"		
12:35pm	L2: Lunch Break 2		
1:30pm			
1:30pm	PS 5A: Parallel Session 5A Location: VR1 Chair: Riina Palu , TalTech	PS 5B: Parallel Session 5B Location: VR2 Chair: Emlyn David Witt , Tallinn University of Technology	PS 5C: Parallel Session 5C Location: VR3 Chair: Tiia Rütütmann , Tallinn University of Technology
3:00pm	1:30pm - 1:41pm What Drives Sophomore Students to Study Electrical Engineering? The Case of Danish and Israeli Students Aharon Gero¹, Anna Friesel² 1: Technion - Israel Institute of Technology, Haifa, Israel; 2: Technical University of Denmark, Ballerup, Denmark	1:30pm - 1:41pm STACK Assessment In Mathematics Classroom: Advantages And Disadvantages Irina Georgievna Ustinova¹, Vladimir Alekseevich Tomilenko², Olga Nikolaevna Imas¹, Evgeniia Aleksandrovna Beliauskene¹, Olga Vladimirovna Yanuschik¹ 1: National Research Tomsk Polytechnic University, Russian Federation; 2: Tomsk State University of Control Systems and Radioelectronics, Russian Federation	1:30pm - 1:43pm Technology for L1 Kichwa/L2 Spanish speakers' vowel sound production of English as their L3 Soledad Chango Masaquiza¹, Mayorie Chimbo Cáceres², Wilma Suárez Mosquera³, Ana Jazmina Vera-de la Torre⁴ 1: Universidad Técnica de Ambato, Ecuador; 2: Universidad Técnica de Ambato, Ecuador; 3: Universidad Técnica de Ambato, Ecuador; 4: Universidad Técnica de Ambato, Ecuador
	1:41pm - 1:54pm Designing Didactic Orders For Written Examinations - A Topic For The Didactic Training Of Teaching Staff In The Engineering Sciences Marcel Köhler University of Applied Sciences Dresden, Germany	1:41pm - 1:54pm Master's Degrees in Russia: the reality of the Bologna System Implementation Daria Shcheglova, Anna Garmonova Higher School of Economics, Russian Federation	1:43pm - 1:54pm Remote Training for Firefighter Group Commanders Thomas Klinger¹, Klaus Tschabuschnig², Marvin Hoffland¹, Vera Ratheiser¹, Christian Kreiter¹ 1: Fachhochschule Kaernten - gemeinnützige Privatstiftung, Austria; 2: Landesfeuerwehrschule Kaernten
	1:54pm - 2:07pm Professor's Image as Viewed by Engineering University Students Petr Osipov, Julia Ziyatdinova Kazan National Research Technological University, Russian Federation	1:54pm - 2:07pm Development of the Ability for Professional Interaction in Future Engineers at a Research University Farida T. Shageeva, Natalia V. Kraysman Kazan National Research Technological University, Russian Federation	1:54pm - 2:07pm Developing Blitz Games and Using Them in Teaching Engineering Disciplines Irina V. Pavlova¹, Irina A. Strelnikova², Nataliya V. Nikonova¹, Maria S. Suntsova¹, Svetlana V. Barabanova¹ 1: Kazan National Research Technological University, Russian Federation; 2: National Research University Higher School of Economics, Russian Federation
	2:07pm - 2:20pm Use of AI For Improving Employee Motivation and Satisfaction Madara Pratt¹, Mohcine Boudhane¹, Sarma Cakula¹, Nazim Taskin² 1: Vidzeme University of Applied Sciences, Latvia; 2: Massey University, New Zealand	2:07pm - 2:20pm Improvement of STEM Higher Education in Hungary Istvan Simonics, Laszlo Nadai Óbuda University, Hungary	2:07pm - 2:20pm Design and Implementation of the International Center of Engineering Education at the University of Talca (Chile) under Igip and the Dresden School of Engineering Pedagogy Tradition Claudia Galarce-Miranda^{1,5}, Diego Gormaz-Lobos^{1,5}, Hanno Hortsch^{2,3}, Steffen Kersten^{2,4} 1: Universidad de Talca, Faculty of Engineering, Chile; 2: Technische Universität Dresden, Germany; 3: International Society of Engineering Pedagogy (IGIP); 4: Ingenieurpädagogische Wissenschaftsgesellschaft (IPW); 5: International Center of Engineering Education, Universidad de Talca, Chile
	2:20pm - 2:33pm University Ecosystems for Student Start-ups: A 'Platform of Trust' Approach Antti Ainamo¹, Ergo Pikas², Kari Mikkela² 1: Tallinn University of Technology TalTech; 2: Aalto University	2:20pm - 2:33pm Is Goode still Good? Barend Jacobus Van Wyk Nelson Mandela University, South Africa	
	2:33pm - 2:46pm Cross-disciplinary Remote Course For Mixed Group Of Students And Professionals Oskari Aleksii Lähdeaho, Olli-Pekka Hilmola LUT University, Finland	2:20pm - 2:33pm Features Of The System Of Advanced Training And Professional Retraining Of Educators Of Higher Technical Schools In Modern Conditions Vladimir V. Kondratyev, Ulyana A. Kazakova, Mariya N. Kuznetsova Kazan National Research Technological University, Russian Federation	
	2:46pm - 2:59pm Experiences from Maritime Logistics Distance Learning Course Olli-Pekka Hilmola^{1,2}, Riina Palu¹, Andres Tolli¹ 1: Taltech, Estonia; 2: LUT University, Kouvola Unit, Finland	2:46pm - 2:59pm Development and Implementation of Gamification in the Life Long Learning System (Based on a Multidisciplinary University) Anastasia Tabolina, Pavel Kozlovskii, Sergey Salkutsan, Olga Kunina, Dmitrii Popov, Inna Yudina, Anastasia Ryushenkova Peter the Great St.Petersburg Polytechnic University, Russian Federation	2:20pm - 2:33pm An Automated Support System in a Remote Laboratory in the Context of Online Learning Hugh Considine¹, Andrew Nafalski¹, Marek Milosz² 1: University of South Australia, Australia; 2: Lublin University of Technology, Poland
			2:33pm - 2:46pm From The Classroom to Home: Experiences On The Sudden Transformation Of Face-To-Face Bioengineering Courses To A Flexible Digital Model Due To The 2020 Health Contingency Jorge Membrillo-Hernández Instituto Tecnológico y de Estudios Superiores de

			Monterrey, Mexico
			2:46pm - 2:59pm
			Professional Skills for Developing Supportive Learning Environments
			Tiia Rütman¹ , Urve Läänemets ² , Kristi Kiilu ² , Katrin Kalamees-Ruubel²
			1: Tallinn University of Technology, Estonia; 2: Estonian Academy of Music and Theatre
3:00pm - 3:15pm	CB4: Coffe Break 4		
3:15pm - 4:45pm	PS 6A: Parallel Session 6A Location: VR1 Session chair: Merike Saar , University of Tallinn	PS 6B: Parallel Session 6B Location: VR2 Session chair: Mike Franz Wahl , Tallinn University of Technology	PS 6C: Parallel Session 6C Location: VR3 Chair: Eduard Shevtshenko , TTK University of Applied Sciences
3:15pm - 3:28pm	The OpenLang Network Platform: Building a European Community of Language Learners and Teachers Alexander Mikroyannidis¹ , Maria Perifanou ² , Anastasios Economides² , Antonio Giordano ³ 1: The Open University, United Kingdom; 2: University of Macedonia, Greece; 3: Pixel, Italy	3:15pm - 3:26pm Smart Instruction of EAP and ESP Reflecting Learner's Motivation Type Ivana Simonova , Katerina Kostolanyova, Ludmila Faltynkova University of Ostrava, Czech Republic	3:15pm - 3:26pm IGIP Prototype Curriculum, Teachers' Professional Development and Distance Education in Russia during COVID-19 Pandemic Viacheslav Prikhodko¹ , Taniana Polykova² 1: Moscow Automobile and Road construction State Technical University (MADI), Russian Federation; 2: 1
3:28pm - 3:41pm	Using Gitlab Interactions To Predict Student Success When Working As Part Of A Team Audrey Beatrice Ekuban , Alexander Mikroyannidis, Allan Third, John Domingue Knowledge, Media Institute, Open University, United Kingdom	3:26pm - 3:37pm Work-in-Progress: Development of the Discipline "Innovations in Engineering Pedagogy" as part of an Advanced Professional Training for Educators of Engineering Schools in Higher Education Institutions Guzel Rafaelevna Khusainova , Mansur Floridovich Galikhanov Kazan National Research Technological University, Russian Federation	3:26pm - 3:37pm Learners' Preferences in ESP Instruction for Higher Medical Staff Ludmila Faltynkova , Ivana Simonova, Katerina Kostolanyova, Tomas Barot University of Ostrava, Faculty of Education, Czech Republic
3:41pm - 3:54pm	Virtual Model of Learning: Cutting-edge Technologies and Challenges Ekaterina Budnik¹ , Elizaveta Osipovskaya ² 1: Pushkin State Russian language Institute, Russian Federation; 2: RUDN, Russian Federation	3:37pm - 3:48pm Work-in-Progress: Web delivered Reading Improvement Battery of Tasks Aikaterini Striftou , Nikolaos C Zygoris , Georgios I Stamoulis, Denis Vavougios University of Thessaly, Greece	3:37pm - 3:48pm Professional Development of Educators of General and Professional Education Systems in University Complex: Convergent Educational Environment Mansur Galikhanov , Ljubov' Ovsienko, Dinara Kulikova, Irina Zimina, Alina Guzhova Kazan National Research Technological University, Russian Federation
3:54pm - 4:07pm	Modern Pedagogical Techniques in Teaching French to Prepare Engineering University Students for Academic Mobility Natalia V. Kraysman , Farida T. Shageeva, Andrei B. Pichugin Kazan National Research Technological University, Russian Federation	3:48pm - 3:59pm Engineering Educators Training in the Context of Socio-Economic and Technological Trends of Kazakhstan Svetlana Karstina Academician Y.A. Buketov Karaganda State University, Kazakhstan	3:48pm - 3:59pm Career Strategies Approach for the Digitalised World Requirements Mariia Kuzmina , Andrii Karpenko, Galyna Tabunshchik , Viktor Kuzmin, Natalia Karpenko, Vasyi Popovych National University "Zaporizhzhia Polytechnic", Ukraine
4:07pm - 4:18pm	Virtual Reality for Developing Intercultural Communication Skills of Engineering Students Julia Ziyatdinova , Artem Bezrukov Kazan National Research Technological University, Russian Federation	3:59pm - 4:10pm The Challenge of Teaching Amidst COVID-19 in Brazil Aruaia Peixoto¹ , Cassia Isac Gonçalves da Silva ² 1: CEFET/RJ, Brazil; 2: IFRJ, Brazil	3:59pm - 4:10pm Teaching at a HTL in times of Covid 19 Gabriele Schachinger , Gerald Kalteis TGM, Austria
4:18pm - 4:29pm	Training Professional Vocabulary On-line when Studying "English for Special Purpose" in Technological University Elena Yurievna Semushina , Elena Vyacheslavovna Volkova Kazan National Research Technological University, Russian Federation	4:10pm - 4:21pm Developing the Competences of Generation Z with Innovative Teaching Methods in the context of the Requirement of Labour Market by Industry 4.0 Renata Machova , Eniko Korcsmaros, Zoltan Seben, Lilla Feher, Zsuzsanna Toth J. SELYE UNIVERSITY, FACULTY OF ECONOMICS AND INFORMATICS, Slovak Republic	4:10pm - 4:21pm Distant Education of Mature Age Students – Motivational Aspects Pavel Andres¹ , Dana Dobrovská ¹ , Roman Hrmo ² , David Vaněček ¹ 1: Masaryk Institute of Advanced Studies, Czech Technical University in Prague, Kolejní 2637/2a, 160 00 Prague 6, Czech Republic; 2: DTI University, Sládkovičova 533/20, 018 41 Dubnica nad Váhom, Slovakia
4:29pm - 4:40pm	Predicting First-Year Computer Science Students Drop-Out with Machine Learning Methods: A Case Study Natalja Maksimova , Olga Dunajeva, Avar Pentel TalTech Virumaa College, Estonia	4:21pm - 4:32pm The Work in Progress: The use of Serverless Technologies to support data processing within the Open Learning and Research Systems Ihor Bezvernyi¹ , Mariya Shyshkina² 1: Kyiv Glushkov Institute of Cybernetics of NAN of Ukraine; 2: Kyiv Glushkov Institute of Cybernetics of NAN of Ukraine Institute of Information Technologies and Learning Tools of NAES of Ukraine,	4:21pm - 4:32pm Work-in-Progress: Designing an Academical Online Course for Technical Students: Structure, Content, Assessment Elena Makeeva¹ , Julia Lopukhova ² , Ekaterina Gorlova ² 1: Samara State University of Social Sciences and Education, Russian Federation; 2: Samara State Technical University, Russian Federation
5:00pm - 7:30pm	RT: Round Table Discussion Location: VR1 Chair: Maria Teresa Restivo , LAETA-INEGI, FAc. Engineering, Univ Porto Chair: Luis Mendes Gomes , University of the Azores	4:32pm - 4:43pm Interdisciplinary Sustainable Development Module for Engineering Education Marina Zhuravleva , Natalia Bashkirtceva, Galina Klimentova, Nina Kotova, Elvira Valeeva Kazan National Research Technological University, Russian Federation	4:32pm - 4:43pm Experience of Introduction of Project-Based Learning Dilbar Sultanova , Anna Maliashova, Phillip Sanger Kazan National Research Technological University, Russian Federation

Round table discussion „COVID-19@ENG.EDU for ICL 2020“

<https://videoconf-colibri.zoom.us/j/94451944992?pwd=RDJmM3FkdkYrNG5mVXpsQmx6em9rdz09>

Meeting ID: 944 5194 4992

Password: 500032

Date: Friday, 25/Sept/2020

<p>10:00am - 11:30am</p>	<p>PS 7A: Parallel Session 7A Location: VR1 Chair: Aive Pevkur, Tallinn University of Technology</p>	<p>PS 7B: Parallel Session 7B - Poster Session Location: VR2 Session chair: Olga Vovk, Tallinn University of Technology</p>	<p>PS 7C: Parallel Session 7C - Special Session SYNERGY Location: VR3 Session chair: Kristian Kankainen, Tallinn University of Technology</p>
	<p>10:00am - 10:11am Modern Mobile Interface for Remote Laboratory Control Anzhelika Parkhomenko¹, Myroslav Zadoian¹, Aleksandr Sokolyanski¹, Artem Tulenkov¹, Yaroslav Zalyubovskiy¹, Andriy Parkhomenko¹, Heinz-Dietrich Wuttke², Karsten Henke² 1: National University "Zaporizhzhia Polytechnic", Ukraine; 2: Ilmenau University of Technology, Germany</p>	<p>10:00am - 10:05am Poster: The Difference in Adaptation Process between First-Year Students Majoring in Engineering and Human Sciences Dzhamilia Nugmanova^{1,2}, Roman Kupriyanov^{1,2}, Nailiya Sh. Valeyeva^{1,2} 1: Kazan National Research Technological University, Russian Federation; 2: Kazan (Volga Region) Federal University, Russian Federation</p>	<p>10:00am - 10:13am University-Business Collaboration in Engineering: A Bibliographic Coupling Analysis Luis Francisco Miranda¹, Vanessa Pertuz² 1: University of Barcelona, Barcelona, Spain; 2: Universidad Popular del Cesar, Valledupar, Colombia</p>
	<p>10:11am - 10:22am Development Of Knowledge Management – Transfer Approaches On The Way To A Learning Organisation Using The Example Of Prison Staff Dörte Göri-Rottstädt University of Applied Sciences Dresden (FHD), Germany</p>	<p>10:05am - 10:10am Poster: SOCIO-CULTURAL ADAPTATION OF FOREIGN STUDENTS IN THE KAZAN STATE POWER ENGINEERING UNIVERSITY Irina V. Pavlova¹, Phillip A. Sanger², Andrey A. Potapov³, Alla A. Kaybiyaynen⁴ 1: KNRTU, Russian Federation; 2: Purdue University, USA; 3: KSPEU, Russian Federation; 4: KNRTU, Russian Federation</p>	<p>10:13am - 10:26am Public-Private Partnership within the Context of Digital Transformation: Increasingly Larger Role of Educational Institutions Mansur F. Galikhanov, Svetlana V. Barabanova, Dmitry V. Elizarov, Maria S. Suntsova Kazan National Research Technological University, Russian Federation</p>
	<p>10:22am - 10:33am Extracurricular Activities as an Important Tool in Developing Soft Skills Petr Osipov, Gulnaz Fakhretdinova, Liudmila Dulalaeva Kazan National Research Technological University, Russian Federation</p>	<p>10:10am - 10:15am Poster: Technological University Faculty Attitudes toward Online Education Gulnara Fatykhovna Khasanova, Mansur Floridovich Galikhanov Kazan National Research Technological University, Russian Federation</p>	<p>10:26am - 10:39am Project-Based Learning Activities for Engineering College Students Ekaterina Tarasova, Olga Khatsrinova, Alla Kaybiyaynen, Gulnaz Fakhretdinova Kazan National Research Technological University, Russian Federation</p>
	<p>10:33am - 10:44am Self-Concept As An Activity Factor In The Social Networks Of The Polytechnic College Students Elena Borisovna Gulk, Valery Viktorovna Khoroshikh, Tatiana Anatolyevna Baranova, Konstantin Pavlovich Zakharov Peter the Great St. Petersburg Polytechnic University, Russian Federation</p>	<p>10:15am - 10:20am Poster: OER in Teaching Psychology and Pedagogy to Future Bachelors of the IT Sector Gulnara Fatykhovna Khasanova, Lidiya Aleksandrovna Semenova Kazan National Research Technological University, Russian Federation</p>	<p>10:39am - 10:52am Interaction Experience “University-Industrial Enterprise” For Perfection Of Preparation Of Engineering Personnel Olga Khatsrinova, Mansur Galikhanov, Julia Khatsrinova Kazan National Research Technological University, Russian Federation</p>
	<p>10:44am - 10:55am Promoting Creativity of Engineering Students in the Foreign Language Classroom Raushan Valeeva, Elvira Valeeva Kazan National Research Technological University, Russian Federation</p>	<p>10:20am - 10:25am Poster: Development of Managerial Skills in Engineering University Students in the Context of Modern Industrial Revolutions Venera M. Tokar¹, Larisa M. Bogatova², Svetlana V. Barabanova¹, Natalia V. Kraysman¹ 1: Kazan National Research Technological University, Russian Federation; 2: Kazan Federal University</p>	
	<p>10:55am - 11:06am Teacher Readiness For Distance Learning Olga Khatsrinova, Veronika Bronskaya, Svetlana Barabanova, Rozalina Shagieva, Julia Khatsrinova KNRTU, Russian Federation</p>	<p>10:25am - 10:30am Poster: Lesson Effects Of PBL Education Promoted The Use Of AI Yunosuke Kawazu¹, Kazuya Takemata², Akiyuki Minamide², Hirofumi Yamada¹ 1: Kanazawa Institute of Technology, Japan; 2: International College of Technology, Japan</p>	
	<p>11:06am - 11:17am The Influence of the Innovative Component on the Training of Specialists in the Field of Chemistry and Polymer Technology Dilbar Sultanova, Khasya Yaroshevskaya, Dinara Iskhakova Kazan National Research Technological University, Russian Federation</p>	<p>10:30am - 10:35am Poster: Technology “The Flipped Classroom” In The Study Of Mathematics At The Technical University Irina Georgievna Ustinova, Olga Vladimirovna Yanuschik, Svetlana Vladimirovna Rozhkova National Research Tomsk Polytechnic University, Russian Federation</p>	
	<p>11:17am - 11:28am Ethical Attitudes Among Engineering Students: Some Preliminary Insights Susanne Durst¹, Aive Pevkur², Velli Parts³ 1: Tallinn University of Technology, Estonia; 2: Tallinn University of Technology, Estonia; 3: Tallinn University of Technology, Estonia</p>	<p>10:35am - 10:40am Poster: Project-Based Learning In The Mathematics Course For First Year Students At A Technical University Svetlana Vladimirovna Rozhkova, Irina Georgievna Ustinova, Olga Vladimirovna Yanuschik National Research Tomsk Polytechnic University</p>	
		<p>10:40am - 10:45am Poster: Project Based Learning Using Digital Storytelling: Educational Program for Students before Learning Full-Scale PBL Practice</p>	

Kazuya Takemata, Akiyuki Minamide
International College of Technology, Kanazawa,
Japan

10:45am - 10:50am

Poster: Engineering Students' Personality Traits And Their Accommodation In Higher Education Process

Irina Zaripova^{1,2}, Nailya Sh. Valeyeva^{1,2}, Renat Zaripov¹, Roman Kupriyanov^{1,2}

1: Kazan National Research Technological University;
2: Kazan (Volga Region) Federal University, Russian Federation

10:50am - 10:55am

Poster: Digital and Non-Digital Reading: Differences for Future Engineers of IT Sector

Gulnara Fatykhovna Khasanova

Kazan National Research Technological University,
Russian Federation

10:55am - 11:00am

Poster: Practice of PBL Education in Collaboration with Printing Company

Akiyuki Minamide, Kazuya Takemata, Satoshi Fujishima

International College of Technology, Kanazawa,
Japan

11:00am - 11:05am

Poster: Outcomes Assessment for Engineering Education

Diana Gillazova, Elvira Valeeva

Kazan National Research Technological University,
Russian Federation

11:05am - 11:10am

Poster: Technique of Active Online Training: Lessons Learnt from EngiMath Project

Anne Uukkivi¹, Elena Safiulina¹, Oksana Labanova¹, Marina Latõnina¹, Vlad Bocanet², Christina Feniser², Florina Serdean², Ana Paula Lopes³, Filomena Soares³, Ken Brown⁴, Gerry Kelly⁴, Errol Martin⁴, Anna Cellmer⁵, Joanna Cymerman⁵, Volodymyr Sushch⁵, Igor Kierkosz⁵, Javier Bilbao⁶, Eugenio Bravo⁶, Concepcion Varela⁶, Olatz Garcia⁶, Carolina Rebollar⁶

1: TTK University of Applied Sciences, Estonia; 2: The Technical University of Cluj-Napoca; 3: The Polytechnic Institute of Porto; 4: Letterkenny Institute of Technology; 5: The Koszalin University of Technology; 6: The University of the Basque Country

11:00am - 11:30am **PS 7C/1: Parallel Session 7C/1 - Special Session IoT-EHFIR**

Location: **VR3**

Chair: **Tiia Rütütmann**, Tallinn University of Technology

1. Patrick Kane (Cypress Semiconductor Corporation). Presentation: "Essential Building Blocks for the IoT"

2. Egert Valmra (SKELETON) Presentation: "Higher energy density ultracapacitors will enable mass adoption of energy harvesting Technologies"

11:30am - 11:45am **CB5: Coffee Break 5**

Poster discussion

11:45am - 1:15pm **PS 8A: Parallel Session 8A - Special Session IoT-EHFIR**

Location: **VR1**

Session chair: **Olga Vovk**, Tallinn University of Technology

11:45am - 11:58am

IoT Based Smart Speech With Visual Feedback Navigation Guidance System For Visually Impaired

Vani A, Mamatha M N

BMS College of Engineering, India

11:58am - 12:11pm

Learning Methods Based On Artificial Intelligence in Educating Engineers for the New Jobs of the 5th Industrial Revolution

Horia Alexandru Modran¹, Doru Ursutiu^{1,2}, Cornel Samoilă^{1,3}, Tinashe Chamunorwa¹

1: Transilvania University of Brasov, Romania; 2: Romanian Academy of Scientists; 3: Romanian Academy of Technical Sciences

12:11pm - 12:24pm

Magnetic Measurements in Melotherapy (Development a New Medical IoT Device)

Emil Canciu¹, Botond Szöcs¹, Alina Corlaci¹, Cornel Samoilă², Doru Ursutiu³

11:45am - 11:58am **PS 8B: Parallel Session 8B - Special Session GinEE**

Location: **VR2**

Session chairs:

Matthias C. Utesch, Technical University of Munich, Germany

Kristian Kankainen, Tallinn University of Technology

11:45am - 11:58am

Teaching Environmental Entrepreneurship to Students with a Serious Gaming Approach

Ferdinand Shuyi Xiong, Florian Bajraktari, Benedikt Pirmin Ströbl, Victor Karl Möslin, Nilüfer Faizan, Robert Heininger, Matthias Christoph Utesch, Helmut Krčmar

Technical University of Munich, Germany

11:58am - 12:11pm

The Counterintuitive Concept of Ergodicity in the Context of a Business Simulation Game

Chrysa Bika¹, Sarah Koblitz¹, Nilüfer Faizan¹, Robert Heininger¹, Matthias Christoph Utesch^{1,2}, Helmut Krčmar¹

1: Technical University of Munich, Germany; 2: Staatliche Fachober- und Berufsbildungsschule Technik München Munich, Germany

11:45am - 11:58am **PS 8C: Parallel Session 8C - Special Session EIEEE**

Location: **VR3**

Session chair: **Kashif Mahmood**, Tallinn University of Technology

11:45am - 11:58am

Digitalization of an Educational Business Model Game

Ines Krajger¹, Mathias Lux², Erich J. Schwarz³

1: Department of Innovation Management and Entrepreneurship, University of Klagenfurt, Austria; 2: Institute of Information Technology, University of Klagenfurt, Austria; 3: Department of Innovation Management and Entrepreneurship, University of Klagenfurt, Austria

11:58am - 12:11pm

An Exploratory Study into Graduate Students' Attitudes Towards Peer Assessment.

Hsin-Chueh Chen^{1,3}, Galena Pisoni², Hannie Gijlers³

1: National Taiwan Normal University; 2: University of Nice Sophia Antipolis; 3: University of Twente, Enschede

12:11pm - 12:24pm

1: "TRANSILVANIA" University of Brasov, Romania; 2: "Transilvania" University of Brasov, Romania – ASTR; 3: "Transilvania" University of Brasov, Romania – AOSR

12:24pm - 12:37pm

Increase the Efficiency of IoT devices by using the Wirelessly Power Transmission in the Future of the Industrial Revolution 4.0

Mohamed zied Chaari, Somaya Al-maadeed
Qatar university, Qatar

12:37pm - 12:50pm

Improving the University – Industry Environment by Adopting the Remote Experiment as a Pedagogical Method

Cornel Samoilă¹, Doru Ursutiu², Lidia Magdalena Ciurea³, Raluca Müller⁴

1: "TRANSILVANIA" University - ASTR, Romania; 2: "TRANSILVANIA" University - AOSR, Romania; 3: National Institute of Materials Physics, IFM Bucharest, Romania; 4: National Institute for R&D in Microtechnologies , IMT Bucharest, Romania

12:50pm - 1:03pm

Embedded System Learning Platform For Developing Economies

Tinashe Chamunorwa¹, Doru Ursutiu^{1,2}, Cornel Samoilă^{1,3}, Horia Alexandru Modran¹

1: Transylvania University of Brasov, Romania; 2: Romanian Academy of Scientists; 3: Romanian Academy of Technical Sciences

1:03pm - 1:16pm

Engineering Student Attitude Towards New Technologies Employed in Active Teaching

Celina P. Leao, Ana C. Ferreira

Centro Algoritmi, University of Minho, Portugal

1:15pm

CB 6: Coffee Break 6

Poster discussion

1:30pm

Plenary 3: Plenary Session 3

Location: **VR1**

Chair: **Michael E. Auer**, CTI Frankfurt

2:20pm

Keynote speech by Professor Ruth Graham (USA)

"Reward and Recognition of University Teaching"

2:20pm

CB 7: Coffee Break 7

Poster discussion

2:30pm

Closing: Closing Ceremony

Location: **VR1**

Chair: **Michael E. Auer**, FH Kärnten

4:00pm

- **ICL2020 best paper announcement**
- **IELA Awards announcement (David Guralnick)**
- **Invitation for ICL2021 in Dresden, Germany**

12:11pm - 12:24pm

Towards a Framework for Adaptive Gameplay in Serious Games That Teach Programming: Association Between Computational Thinking and Cognitive Style

Anastasios Theodoropoulos¹, Vassilis

Pouloupoulos², George Lepouras¹

1: HCI-VR Laboratory, University of the Peloponnese, Greece; 2: Knowledge and Uncertainty Research Laboratory, University of the Peloponnese, Greece

12:24pm - 12:37pm

A Guide for the Development of Game-based Evacuation Simulators

George Kougioumtzoglou, Anastasios

Theodoropoulos, George Lepouras

HCI-VR Laboratory, University of the Peloponnese, Greece

How PBL Plans Help Entrepreneurship Skills of Engineering Students?

Ahmad Sedaghat, Hayder Salem, Raouf Mbarki, Fadi Alkhatib, Abdullah Alawadhi, Jessica Cheska Lopez, Girish Kaimal Mohanan

Australian College of Kuwait, Kuwait

12:24pm - 12:37pm

Activities to explore the Entrepreneurship Mindset at the HTL Wolfsberg

Markus Johannes Liebhard, Jürgen Jantschgi

HTL Wolfsberg, Austria

Workshop 5: Reward and recognition of university teaching.

Location: **VR2**

Chair: **Gunnar Piho**, Tallinn University of Technology

Facilitators: Dr Ruth Graham, Dr Roland Tormey, Dr Gunter Bombaerts, Dr Gunnar Piho (USA, EuroTech Universities)

Date: Saturday, 26/Sept/2020

9:00am

Social Program

-

Welcome to TalTech:

4:30pm

TalTech story <https://story.taltech.ee/en/>

TalTech virtual tour: <https://virtuaaltuur.taltech.ee/>

TalTech campus: <https://www.youtube.com/watch?v=7j4r3yLeiCU>

TalTech School of Engineering: <https://www.youtube.com/watch?v=j4nkol3s0fw;>

Welcome to Tallinn:

https://mediabank.visittallinn.ee/eng/videos/promotional_videos/oid-16155/?&offset=1

<https://www.youtube.com/watch?v=7IE4aZVTcEU>

<https://www.visitestonia.com/en> (EN)

<https://www.visitestonia.com/ru> (RU)

Visit Estonia:

https://www.youtube.com/watch?v=v_s6PVoexvE

<https://www.youtube.com/watch?v=3mPypAJTzIs>

<https://www.youtube.com/watch?v=Vj3w4Z8Gsc>

Visit Tallinn:

https://www.youtube.com/watch?v=q4qal_s_9-0 (Quiet streets in March 2020)

<https://www.youtube.com/watch?v=yJlBrD-kGI>

<https://www.youtube.com/watch?v=J0moeNq4ors>

https://www.youtube.com/watch?v=UplWQVc_TZA

<https://www.youtube.com/watch?v=5YXaA7iyCRQ>

<https://www.youtube.com/watch?v=VTy1hhZ5uWo>

<https://www.youtube.com/watch?v=IQN1TLws1vM>

<https://www.youtube.com/watch?v=CgWf2pgWIO4>
<https://www.youtube.com/watch?v=szfXufi3e74> (Christmas)
<https://www.youtube.com/watch?v=JLRsg0wysEE>
https://www.youtube.com/watch?v=_Zw2MXKZBrI&list=TLPQMDQwNjiwMjAsGxAwcOJWtQ&index=6
<https://www.youtube.com/watch?v=6Cfujj87CPE> (RU)

Song festival:

<https://2019.laulupidu.ee/en/> (EN)
<https://2019.laulupidu.ee/ru/> (RU)
<https://www.youtube.com/watch?v=3ERaWxl2qh0> (Song and Dance festival)
<https://www.youtube.com/watch?v=CbeSggrPwVU>

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