

# Conference Agenda

## Session Overview

**Date: Wednesday, 25/Sep/2019**

8:45am - 5:00pm	<b>R1: Registration</b> Location: <b>Breakout Room</b>	
9:00am - 10:30am	<b>WS 1: Workshop : IGIP Workshop On Methodologies To Build Conceptual Questions For Assessing Important Misconceptions In Engineering Related Areas</b> Location: <b>Pinnacle II</b> Chair: <b>Maria Teresa Restivo</b> , LAETA-INEGI, FAc. Engineering, Univ Porto Chair: <b>Diana Maria Carreira Pires Urbano</b> , University of Porto	
9:00am - 12:00pm	<b>CM 1: IGIP Committee Meeting</b> Location: <b>Pinnacle I</b> Chair: <b>Paul Hanno Hortsch</b> , IGIP	
10:30am - 11:00am	<b>CB0: Coffee Break</b> Location: <b>Breakout Room</b>	
11:00am - 12:30pm	<b>WS 2: Workshop : Getting Ready for IT Programs Accreditation in Europe: the Euro-Inf Standard</b> Location: <b>Pinnacle II</b> Chair: <b>Eduardo Vendrell Vidal</b> , Universitat Politècnica de València	
12:30pm - 1:30pm	<b>L1: Lunch</b> Location: <b>Espresso/Ginger Restaurant</b>	
1:30pm - 3:00pm	<b>WS 3: Workshop : Introduction to Modus Toolbox™ IDE Using PSoC® 6 MCUs</b> Location: <b>Pinnacle II</b> Chair: <b>Patrick Robert Kane</b> , Cypress	<b>WS 5: Workshop : Authentic Learning Strategies to Develop Engineering Competencies for the 21st Century</b> Location: <b>Pinnacle I</b> Chair: <b>Lueny Morell</b> , InnovaHiEd Chair: <b>Eduardo Vendrell Vidal</b> , Universitat Politècnica de València
3:00pm - 3:30pm	<b>CB1: Coffee Break</b> Location: <b>Breakout Room</b>	
3:30pm - 5:00pm	<b>WS 4: Workshop : Employing Accreditation Requirements to Build Engineering Leadership Components in The Curriculum</b> Location: <b>Pinnacle II</b> Chair: <b>Nael Barakat</b> , University of Texas at Tyler	
4:00pm - 5:00pm	<b>CM 2: IGIP Annual General Meeting</b> Location: <b>Pinnacle I</b> Chair: <b>Paul Hanno Hortsch</b> , IGIP	
6:00pm - 7:30pm	<b>WR: Welcome Reception</b> Location: <b>Ginger Restaurant</b> Dress code: <a href="#">Smart casual</a>	

Date: Thursday, 26/Sep/2019

8:30am - 4:30pm	<b>R2: Registration</b> Location: <b>Exhibition Hall</b>					
9:00am - 10:00am	<b>OC: Opening Ceremony</b> Location: <b>Grand Ballroom</b> 9.00am-9.10am : Suchart Siengchin, KMUTNB President, Thailand 9.10am-9.15am : Panarit Sethakul, ICL2019 Conference Chairs, Thailand 9.15am-9.25am : Michael E. Auer, General Chair, Germany 9.25am-9.35am : Hanno Hortsch, IGIP President, Germany 9.35am-9.45am : mementos and gifts 9:45am : Photo session [VIPs] 9:50am : Photo session [all ICL2019...]					
10:00am - 10:30am	<b>K1: Keynote 1 : The Importance of Entrepreneurship Education for University Graduates</b> Location: <b>Grand Ballroom</b> Chair: <b>Stefan Vorbach</b> , Graz University of Technology					
10:30am - 11:00am	<b>CB2: Coffee Break</b> Location: <b>Exhibition Hall</b>					
11:00am - 11:30am	<b>K2: Keynote 2 : The Impact of the 4th Industrial Revolution on Engineering Education</b> Location: <b>Grand Ballroom</b> Chair: <b>Aditad Vasinonta</b> , Office of Industrial Economics, Ministry of Industry					
11:30am - 12:00pm	<b>K3: Keynote 3 : Affective Education and New Technologies starting from Music Therapy to Engineering Education!</b> Location: <b>Grand Ballroom</b> Chair: <b>Doru Ursutiu</b> , "TRANSILVANIA" University - AOSR					
12:00pm - 12:30pm	<b>K4: Keynote 4 : Learning Centers, a tidal wave in shaping the workforce of the future</b> Location: <b>Grand Ballroom</b> Chair: <b>Xavier Fouger</b> , 3DS					
12:30pm - 1:30pm	<b>L2: Lunch</b> Location: <b>Espresso Restaurant</b>					
1:30pm - 3:00pm	<p><b>PS 1A: Parallel Sessions : Interactive Learning</b> Location: <b>Pinnacle I</b> Chair: <b>Phayung Meesad</b>, KMUTNB</p> <p><b>Innovative Technical Drawing Simulation Application for Higher-Order Thinking Skills in Teaching and Learning of Technical Graphic Communication for Upper Secondary School.</b> <b>Mohd Amir bin Abdul Latip<sup>1</sup></b>, <b>Shaharuddin bin Md Salleh<sup>1</sup></b>, <b>Aminah binti Idrus<sup>2</sup></b> 1: Universiti Teknologi Malaysia, Malaysia; 2: Universiti Malaysia Sabah</p> <p><b>Using Active Learning Integrated with Pedagogical Aspects to Enhance Students'</b></p>	<p><b>PS 1B: Parallel Sessions : STEM Education</b> Location: <b>Pinnacle II</b> Chair: <b>Arisara Chaikittiratana</b>, KMUTNB</p> <p><b>A Study on Pupils' Motivation to Pursue a STEM Career</b> <b>Georg Jäggle<sup>2</sup></b>, <b>Munir Merdan<sup>1</sup></b>, <b>Gottfried Koppensteiner<sup>3</sup></b>, <b>Wilfried Lepuschitz<sup>1</sup></b>, <b>Alexandra Posekany<sup>3</sup></b>, <b>Markus Vincze<sup>2</sup></b> 1: Practical Robotics Institute Austria (PRIA), Austria; 2: ACIN Institute of Automation and Control, Vienna University of Technology; 3: TGM, Vienna Institute of Technology</p> <p><b>Application of Microfluidic Tools for Training Chemical Engineers</b> <b>Artem Bezrukov</b>, <b>Dilbar Sultanova</b> Kazan National</p>	<p><b>PS 1C: Parallel Sessions : New Learning Models and Applications</b> Location: <b>Pinnacle III</b> Chair: <b>Galina Smirnova</b>, Karaganda State Technical University Chair: <b>Damira Jantassova</b>, Karaganda State Technical University</p> <p><b>Method of Thematic Immersion in the Information Educational Environment as a Tool for the Formation and Assessment of Professional Competence of Future Engineering Teachers</b> <b>Tetiana Bondarenko<sup>1</sup></b>, <b>Denys Kovalenko<sup>1</sup></b>, <b>Vasyl Iagupov<sup>2</sup></b>, <b>Nataliia Briukhanova<sup>1</sup></b> 1: Ukrainian Engineering Pedagogics Academy, Kharkiv, Ukraine; 2: National Defense University of Ukraine named after Ivan Cherniakhovskiy,</p>	<p><b>PS 1D: Parallel Sessions : Research in Engineering Pedagogy</b> Location: <b>Pinnacle IV</b> Chair: <b>Athakorn Kengpol</b>, KMUTNB</p> <p><b>Psychological and Pedagogical Problems of Beginning Lecturers and Postgraduate Students at Engineering University</b> <b>Elena Borisovna Gulk</b>, <b>Victor Nikolaevich Kruglikov</b>, <b>Tatyana Anatolievna Baranova</b>, <b>Anastasya Vladimirovna Tabolina</b>, <b>Pavel Sergeevich Kozlovskii</b> Peter the Great St. Petersburg Polytechnic University, Russian Federation</p> <p><b>The Impact of Alternative Assessments in Assessing the Seventh Component of the Washington Accord's Knowledge Profile</b> <b>Peck Loo Kiew<sup>1</sup></b>, <b>Chia</b></p>	<p><b>PS 1E: Parallel Sessions : E-Learning</b> Location: <b>Pinnacle V</b> Chair: <b>Anirach Mingkhwan</b>, KMUTNB</p> <p><b>Automatic Discovery Of Shared Resources In Extended Networks And Their Applications In E-learning</b> <b>Ulrich Hermann Sêmêvo Boko</b>, <b>Ousmane Racine Ly</b>, <b>Samuel Ouya</b>, <b>Gervais Mendy</b> Laboratory LIRT, Higher Polytechnic School, University Cheikh Anta Diop of Dakar</p> <p><b>Proposal Of A Dynamic Resource Allocation Solution For Virtual Classroom Platforms</b> <b>Ousmane Racine Ly</b>, <b>Ulrich Hermann Sêmêvo Boko</b>, <b>Keba Gueye</b>, <b>Samuel Ouya</b> Ecole Supérieure Polytechnique de</p>	<p><b>SS1: Special Sessions - Talking about Teaching</b> Location: <b>Pinnacle VI</b> Chair: <b>Maria Teresa Restivo</b>, LAETA-INEGI, FAc. Engineering, Univ Porto</p> <p><b>Student Engagement through Community Building: Making the Case for a Team-based Approach to Learning Physics</b> <b>Teresa Larkin</b> American University, United States of America</p> <p><b>Authentic e-Learning Perspectives from Online Facilitators in a Developing Country</b> <b>Amy Ooi Mei Wong</b>, <b>Kevin Kam Fung Yuen</b> Singapore University of Social Sciences, Singapore</p> <p><b>Construction of Evaluation Index System for Museum Learning Project</b></p>

<p><b>Learning Experience in Programming and Related Concepts</b> <u>Asanthika Medawani Imbulpitiya</u>, Nuwan Kodagoda, Anjalie Wasana Gamage, Kushnara Suriyawansa Sri Lanka Institute of Information Technology, Sri Lanka</p>	<p>Research Technological University, Russian Federation</p>	<p><b>How To Attract And Retain Winners Of The Scientific Competitions To Study Engineering</b> <u>Tanya Stanko</u><sup>2</sup>, <u>Oksana Zhirosh</u><sup>1</sup>, <u>Dmitry Sedelkov</u><sup>2</sup> 1: Innopolis University, Russian Federation; 2: Kazan National Research Technical University named after A.N. Tupolev (KNRTU-KAI)</p>	<p>Kyiv, Ukraine <b>The Application of Equilibrium Equations Matrix with Stiffness Method for Statically Indeterminate Structural Analysis</b> <u>Sacharuck Pornpeerakeat</u>, <u>Arisara Chaikittiratana</u> KMUTNB, Thailand</p>	<p><b>Pao Liew</b><sup>2,3</sup>, <b>Marlia Puteh</b><sup>4</sup>, <b>Kim Geok Tan</b><sup>5</sup> 1: UCSI University, Kuala Lumpur, Malaysia; 2: Tunku Abdul Rahman University College, Kuala Lumpur, Malaysia; 3: Engineering Accreditation Department, Board of Engineers, Kuala Lumpur, Malaysia; 4: Centre for Engineering Education, Universiti Teknologi Malaysia, Johor, Malaysia; 5: Multimedia University, Melaka, Malaysia</p>	<p>Dakar, LIRT, UCAD, Senegal <b>Studying English Online As A Part Of A Course "English For Special Purpose" In Technological University</b> <u>Elena Yurieva Semushina</u>, <u>Julia Nadirova Ziyatdinova</u> Kazan National Research Technological University, Russian Federation</p>	<p><b>in China</b> <u>Jiangfeng Gou</u>, <u>Nan Wang</u> School of Network Education, Beijing University of Posts and Telecommunications, P.R. China</p>
<p><b>Analysis of Student Members' Attitudes on Out-of-curriculum Science Communication Activities and Resultant Educational Effects</b> <u>Makoto Hasegawa</u> Chitose Institute of Science and Technology, Japan</p>	<p><b>Development of a "Smart Materials" Master's Degree Module for Chemical Engineering Students</b> <u>Artem Bezrukov</u>, <u>Dilbar Sultanova</u> Kazan National Research Technological University, Russian Federation</p>	<p><b>Realization of Competence-Based Approach in the System of Engineering-Pedagogical Staff Development</b> <u>Marat Ibatov</u>, <u>Gulnara Zhetessova</u>, <u>Galina Smirnova</u>, <u>Damira Jantassova</u> Karaganda State Technical University, Kazakhstan</p>	<p><b>Mobile Applications and their influence in the Cognitive Flexibility</b> <u>Cristina Paez-Quinde</u> Universidad Técnica de Ambato, Ecuador</p>	<p><b>A Development of Instructional Package using Problem-Based Learning for Power System Transients</b> <u>Phanuphon Siriwithayathanakun</u>, <u>Pichet Sriyanyong</u> Faculty of Technical Education King Mongkut's University of Technology North Bangkok, Thailand</p>	<p><b>Managing Tasks in Confidence Based Learning using K-ary Tree</b> <u>Rajeev Chatterjee</u><sup>1</sup>, <u>Sadhu Prasad Kar</u><sup>2</sup>, <u>Jyotsna Kumar Mandai</u><sup>2</sup> 1: National Institute of Technical Teachers' Training &amp; Research, Kolkata, India; 2: University of Kalyani, Kalyani, Nadia, India</p>	<p><b>Cu-T-Pi Revised: An Updated Model Supercomputer for Parallel Computing Pedagogy</b> <u>James Wolfer</u> Indiana University South Bend</p>
<p><b>Using Flipped Classroom In Foreign Language Teaching: Implementation Of Interactive Educational Technologies</b> <u>Julia Lopukhova</u><sup>2</sup>, <u>Elena Makeeva</u><sup>1,2</sup>, <u>Tatyana Rudneva</u><sup>3</sup> 1: Samara State University of Social Sciences and Education, Russian Federation; 2: Samara State Technical University, Russian Federation; 3: Samara National Research University</p>	<p><b>Designing Online Learning Activities for Collaborative Learning Among Engineering Students</b> <u>Anuradha Peramunugamage</u><sup>1</sup>, <u>Uditha Ratnayake</u><sup>2</sup>, <u>Shironica P. Karunanayaka</u><sup>2</sup>, <u>Rangika Halwatura</u><sup>1</sup> 1: University of Moratuwa, Sri Lanka; 2: Open University of Sri Lanka</p>	<p><b>Intelligent Virtual Reality Tutoring Systems as a New Generation of Simulators: Requirements and Opportunities</b> <u>Olga Maksimenkova</u>, <u>Fedor Dudyrev</u>, <u>Denis Mikhailenko</u> HSE, Russian Federation</p>	<p><b>International Network Conference as an Efficient Way to Integrate Universities and Businesses in the Context of Digital Economy</b> <u>Sergey V. Yushko</u>, <u>Mansur F. Galikhanov</u>, <u>Svetlana V. Barabanova</u>, <u>Alla A. Kaybiyaynen</u>, <u>Maria S. Suntsova</u> Kazan National Research Technological University, Russian Federation</p>	<p><b>Challenge Based Learning in the 4IR: Results on the Application of the Tec21 Educational Model in an Energetic Efficiency Improvement to a Rustic Industry</b> <u>Juan Manuel Reyna-González</u><sup>1</sup>, <u>Alicia Ramirez-Medrano</u><sup>1</sup>, <u>Jorge Membrillo-Hernández</u><sup>1,2</sup> 1: Departamento de Bioingeniería, Escuela de Ingeniería y Ciencias, Tecnológico de Monterrey, Campus</p>	<p><b>Research on Model of Faculty Learning Community Based on SNS</b> <u>Lu Peng</u><sup>1</sup>, <u>Cong Xiao</u><sup>2</sup>, <u>Ge Qingqing</u><sup>3</sup>, <u>Zhou Dongdai</u><sup>3</sup> 1: College of Art, Northeast Electric Power University, China, People's Republic of; 2: College of Science, Northeast Electric Power University, China, People's Republic of; 3: Engineering and Research Center of E-learning, Northeast Normal University, China, People's Republic of</p>	<p><b>Building A Community Of STEM Educators In Nigeria</b> <u>Itoro Charles Emembolu</u><sup>1</sup>, <u>Charles Emembolu</u><sup>2</sup>, <u>Kelvin Umechukwu</u><sup>2</sup>, <u>Abdulkabir Sulaiman</u><sup>2</sup>, <u>Olumide Aderinwale</u><sup>2</sup> 1: Northumbria University, United Kingdom; 2: TechQuest STEM Academy, Nigeria</p>
<p><b>Digitization and Current Educational Changes in Switzerland - Inspiration for the Czech Republic?</b> <u>Dana Dobrovská</u>, <u>Pavel Andres</u> Czech Technical University in Prague, Masaryk Institute of Advanced Studies, Czech Republic</p>						

				Ciudad de Mexico; 2: Writing Lab, TecLabs, Vicerrectoría de Investigación y Transferencia de Tecnología, Tecnológico de Monterrey, Ave. Eugenio Garza Sada 2501, Monterrey 64849, NL, Mexico.		
3:00pm - 3:30pm	<b>CB3: Coffee Break</b> Location: <b>Breakout Room</b>					
3:30pm - 5:00pm	<p><b>PS 2A: Parallel Sessions : Interactive Learning</b> Location: <b>Pinnacle I</b> Chair: <b>György Molnár</b>, Budapest University of Technology and Economics</p> <p><b>Infret: Enhancing a Tool for Explorative Learning of Information Retrieval Concepts</b> <b>Aleksandar Bobić<sup>1</sup></b>, <b>Christopher Cheong<sup>2</sup></b>, <b>Justin Filippou<sup>3</sup></b>, <b>France Cheong<sup>2</sup></b>, <b>Christian Güti<sup>1</sup></b> 1: Graz University of Technology, Austria; 2: RMIT University; 3: University of Melbourne</p> <p><b>From Collaborative Methods to Practice – Issues of Knowledge and Competence in Hungarian Higher Education</b> <b>György Molnár</b>, <b>Katalin Nagy</b> Budapest University of Technology and Economics, Hungary</p> <p><b>Extracurricular Activities In Engineering School And Its Impact On Students' Tolerance Formation</b> <b>Gulnaz Fakhretdinova</b>, <b>Liudmila Dulalaeva</b>, <b>Ekaterina Tsareva</b> Kazan National Research Technological University, Russian</p>	<p><b>PS 2B: Parallel Sessions : STEM Education</b> Location: <b>Pinnacle II</b> Chair: <b>Yoke Seng Wong</b>, KDU University</p> <p><b>More than Structured Programming in Primary School Syllabus</b> <b>Eleni Fatourou</b>, <b>Nikolaos C. Zygouris</b>, <b>Thanasis Loukopoulos</b>, <b>Geogios I Stamoulis</b>, <b>Denis Vavougiuos</b> University of Thessaly, Greece</p> <p><b>STEAM Gamification Learning Model to Enhance Vocational Students' Creativity and Innovation Skills</b> <b>Jiraphorn Kummanee</b>, <b>Pallop Piriyasurawong</b> King Mongkut's University of Technology North Bangkok, Thailand</p> <p><b>A game-based learning assessment framework for learning Ubiquitous Computational Thinking</b> <b>Yoke Seng Wong<sup>1</sup></b>, <b>Maizatul Hayati Mohamad Yatim<sup>2</sup></b>, <b>Wee Hoe Tan<sup>3</sup></b> 1: KDU University College, Malaysia; 2: Sultan Idris Education University, Tanjong Malim, Perak, Malaysia; 3: Sultan Idris Education University, Tanjong Malim, Perak, Malaysia</p> <p><b>Education of IoT-Engineering Topics at</b></p>	<p><b>PS 2C: Parallel Sessions : Modern Education Technology and Applications</b> Location: <b>Pinnacle III</b> Chair: <b>Kevin Kam Fung Yuen</b>, Singapore University of Social Sciences</p> <p><b>Engineering Education Over The Course Of Time - A Technical And Didactic Journey Over Four Decades: From Manual Road Map Navigation To Electronic Navigation Systems To Autonomous Cars</b> <b>Oliver Michler</b>, <b>Paul Schwarzbach</b>, <b>Robert Richter</b> Technical University Dresden (TUD), Germany</p> <p><b>Promoting Learner Autonomy And Enhancing Student Performance In Foreign Language Learning Through Online Learning Platform</b> <b>Neelakshi Chandrasena</b>, <b>Premawardhena</b> University of Kelaniya, Sri Lanka</p> <p><b>Overcoming Challenges Of Teaching Large Group Language Classes At University Through Computer Aided Language Learning</b></p>	<p><b>PS 2D: Parallel Sessions : Research in Engineering Pedagogy</b> Location: <b>Pinnacle IV</b> Chair: <b>Marcel Köhler</b>, Technical University of Dresden</p> <p><b>Inconsistent Interest Profiles Of Students Of Engineering Disciplines: Recruitment Potential For Other Technical Study Courses?</b> <b>Dr. Marcel Köhler</b>, <b>Andreas Leon</b>, <b>Nelly Schmechtig</b>, <b>Prof. Dr. Stephan Abele</b> Technical University of Dresden, Germany</p> <p><b>Chat-Interviews as a Means to Explore Students' Attitudes and Perceptions on Developing Video Games With Unity in Computer Science Classes</b> <b>Oswald Comber</b>, <b>Renate Motschnig</b>, <b>Hubert Mayer</b> University of Vienna, Austria</p> <p><b>Development Of International Academic Mobility: Success Stories</b> <b>Raushan Valeeva<sup>1</sup></b>, <b>Julia Ziyatdinova<sup>1</sup></b>, <b>Petr Osipov<sup>1</sup></b>, <b>Olga Oleynikova<sup>2</sup></b> 1: Kazan National Research Technological University, Russian Federation; 2: Center for VET Studies, Erasmus+ Programme Office in Russian Federation, Russian Federation</p> <p><b>Designing the Curriculum for the 4IR: Working the Case of Biology and Sustainable Development in</b></p>	<p><b>PS 2E: Parallel Sessions : Real World Learning Experiences</b> Location: <b>Pinnacle V</b> Chair: <b>Panich Voottipruex</b>, KMUTNB</p> <p><b>A Project-Centric Learning Strategy in Biotechnology</b> <b>Seshasai Srinivasan</b>, <b>Amin Rajabzadeh</b>, <b>Dan Centea</b> McMaster University, Canada</p> <p><b>Implementing Real World Learning Experiences - A Comparative Study of Competency Levels Between Students going through Current Curriculum and having Real World Learning Experiences</b> <b>Manav Chethan Bijjahalli</b> DR AMBEDKAR INSTITUTE OF TECHNOLOGY, India</p> <p><b>A Problem-Solving Based Approach to Learn Engineering Mathematics</b> <b>Nasim Muhammad</b>, <b>Seshasai Srinivasan</b> McMaster University, Canada</p> <p><b>'Learning By Competing': Experience From Smart India Hackathon 2019</b> <b>Shashikant Annarao Halkude</b>, <b>Dipal Dilip Awasekar</b> Walchand Institute Of Technology, Solapur, Maharashtra - India</p>	<p><b>SS2: Special Sessions : Entrepreneurship in Engineering Education</b> Location: <b>Pinnacle VI</b> Chair: <b>Jürgen Jantschgi</b>, HTL Wolfsberg</p> <p><b>Business Model Lab - A playground for tech entrepreneurs</b> <b>Stefan Vorbach</b>, <b>Christiana Müller</b> Graz University of Technology, Austria</p> <p><b>Entrepreneurship Game Concept "Create Products" – Idea generation for product development with a board game</b> <b>Jürgen Jantschgi<sup>1</sup></b>, <b>Erich Scheff<sup>2</sup></b>, <b>Franz Erkner-Sacher<sup>3</sup></b> 1: HTL Wolfsberg, Austria; 2: HTL Hollabrunn, Austria; 3: HTL Graz-Gösting, Austria</p> <p><b>Consistent Development of the Training Program "Innovation Management"</b> <b>Dilbar Sultanova</b>, <b>Anna Maliashova</b>, <b>Artem Bezrukov</b> Kazan National Research Technological University, Russian Federation</p> <p><b>"We Can Learn Ourselves" - Developing Digital Media For Student-Centered Learning</b> <b>Alexandra Posekany<sup>1,3,4</sup></b></p>

	<p>Federation</p> <p><b>A Method to Balance Educational Game Content and Lesson Duration: The Case of a Digital Simulation game for Nurse Training</b> <b>Catherine Pons</b> <b>Lelardeux<sup>1</sup>, Michel Galaup<sup>2</sup>, Hervé Pingaud<sup>3</sup>, Catherine Mercadier<sup>4</sup>, Pierre Lagarrigue<sup>5</sup></b> 1: IRIT, University of Toulouse, INU Champollion, France; 2: EFTS, University of Toulouse, INU Champollion, France; 3: LGC, University of Toulouse, INU Champollion, France; 4: GIP E-sante, French Regional Healthcare Agency, ARS Occitanie; 5: ICA, University of Toulouse, INU Champollion, France</p> <p><b>Development of Lesson Plans for Practicing Electrical Installation Professional Experience with Competency-Based Training System in Building Electricians</b> <b>Kanitta Hinon</b> KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK, Thailand</p>	<p><b>Austrian Vocational Secondary Schools</b> <b>Andreas Probst<sup>1</sup>, Manfred Grafinger<sup>4</sup>, Gabriele Schachinger<sup>3</sup>, Reinhard Bernsteiner<sup>2</sup></b> 1: HTL Wels, Austria; 2: HTL Jenbach, Austria; 3: tgm Wien, Austria; 4: TU Wien</p> <p><b>Interventions to Enhance Multinational Collaborative Projects as a Project-Based Learning Experience</b> <b>Ivan Enrique Esparragoza<sup>1</sup>, Jorge Rodriguez<sup>2</sup>, Maria Evans<sup>1</sup></b> 1: Penn State University, United States of America; 2: Western Michigan University, United States of America</p>	<p><b>Neelakshi Chandrasena Premawardhena</b> University of Kelaniya, Sri Lanka</p> <p><b>M-learning as Support Tool in the Diffusion of the Traditional Food Case Study Ambato</b> <b>Cristina Paez-Quinde</b> Universidad Técnica de Ambato, Ecuador</p> <p><b>Solving Exercise Generation Problems Using The Improved EGAL Metaheuristic Algorithm with precedence constraints</b> <b>Blanka Láng</b> Corvinus University of Budapest, Hungary</p>	<p><b>Bioengineering Courses</b> <b>Jorge Membrillo-Hernández<sup>1,2</sup>, Elsy G. Molina-Solis<sup>1</sup>, Vianney Lara-Prieto<sup>1</sup>, Rebeca Garcia-García<sup>1</sup></b> 1: Escuela de Ingeniería y Ciencias, Tecnológico de Monterrey; 2: Writing Lab, TecLabs, Vicerrectoría de Investigación y Transferencia de Tecnología, Tecnológico de Monterrey, Ave. Eugenio Garza Sada 2501, Monterrey 64849, NL, Mexico</p> <p><b>Development of the Engineering University Students' Ecological Competence Based on the Project Method</b> <b>Alisher Irismetov<sup>1</sup>, Petr Osipov<sup>1</sup>, Elena Klemyashova<sup>2</sup>, Leysan Khafizova<sup>1</sup></b> 1: Kazan National Research Technological University, Russian Federation; 2: Institute of the Study of Childhood, Family and Education of the Russian Academy of Education</p>	<p><b>Commitment Issues: How Commitment to Learning Affects the Relationship between Student's English Language Proficiency and Academic Performance of Students in International Program</b> <b>Achareeya Robkit</b> International College, King Mongkut's University of Technology North Bangkok, Thailand</p>	<p><b>Dominik Dolezal<sup>1,3</sup>, Lisa Vittori<sup>1,2</sup>, Gottfried Koppensteiner<sup>1,2</sup></b> 1: TGM, Austria; 2: PRIA: Practical Robotics institute Austria; 3: University of Applied Sciences Technikum Wien; 4: Danube University Krems</p> <p><b>Teaching Web programming using the MEAN stack</b> <b>Luis Mendes Gomes<sup>1</sup>, Francisco Martins<sup>2</sup>, Hélia Guerra<sup>3</sup></b> 1: NIDeS, Centro Algoritmi, University of the Azores; 2: NIDeS, LASIGE, University of the Azores; 3: NIDeS, Centro Algoritmi, University of the Azores</p>
5:15pm - 6:15pm	<p><b>AS: IGIP/IELA Award Session</b> Location: <b>Pinnacle I-II</b> Chair: <b>Paul Hanno Hortsch</b>, IGIP Chair: <b>David Guralnick</b>, Kaleidoscope Learning</p>					
6:30pm - 9:00pm	<p><b>CD: Conference Dinner</b> Location: <b>Grand Ballroom</b> Thai culture activities Best Paper Award Announcement for ICL2020 Dress code: Business casual or National dress</p>					

**Date: Friday, 27/Sep/2019**

8:25am - 12:00pm	<b>R3: Registration</b> Location: <b>Breakout Room</b>
8:30am - 9:00am	<b>PN: Plenary session/ICL2020 Announcement</b> Location: <b>Pinnacle I-II</b> Chair: <b>Michael E. Auer</b> , CTI Frankfurt - Keynote : "How Technology Can Improve Critical Thinking Skills" by David Guralnick, The president of the International E-Learning Association (IELA) - The ICL2020 announcement in Tallinn
8:30am - 1:30pm	<b>PT: Poster Sessions</b> Location: <b>Exhibition Hall</b> Chair: <b>Bandit Suksawat</b> , KMUTNB Chair: <b>Pichet Sriyanyong</b> , Faculty of Technical Education King Mongkut's University of Technology North Bangkok  <b>Poster: Development of Faculty Competences in Online Teaching</b> <b>Gulnara Fatykhovna Khasanova</b> , <b>Mansur Floridovich Galikhanov</b> Kazan National Research Technological University, Russian Federation  <b>Poster: The Usage of Open Educational Resources and Practices in Training Engineers for the IT Sector</b> <b>Gulnara Fatykhovna Khasanova</b> , <b>Renat Nazipovich Zaripov</b> Kazan National Research Technological University, Russian Federation  <b>Social-Psychological Readiness of Engineering University Students for Academic Mobility to European Countries</b> <b>Farida T. Shageeva</b> <sup>1</sup> , <b>Diliara R. Erova</b> <sup>2</sup> , <b>Natalia V. Kraysman</b> <sup>3</sup> 1: Kazan National Research Technological University, Russian Federation; 2: Kazan National Research Technological University, Russian Federation; 3: Kazan National Research Technological University, Russian Federation  <b>Computer-Aided Translation Course for Students Majoring in Engineering</b> <b>Olga Lefterova</b> , <b>Diana Giliyazova</b> , <b>Elvira Valeeva</b> , <b>Julia Ziyatdinova</b> Kazan National Research Technological University, Russian Federation  <b>Preparation of Engineering University Students for Academic Mobility to French Universities</b> <b>Natalia V. Kraysman</b> <sup>1</sup> , <b>Farida T. Shageeva</b> <sup>2</sup> , <b>Gulnara R. Mullakhmetova</b> <sup>3</sup> , <b>Andrei B. Pichugin</b> <sup>4</sup> 1: Kazan National Research Technological University, Russian Federation; 2: Kazan National Research Technological University, Russian Federation; 3: Kazan State Power Engineering University, Russian Federation; 4: Kazan National Research Technological University, Russian Federation  <b>Poster: Intensive Learning Technologies as a Trend in Education Digitalization</b> <b>Anna V. Aksyanova</b> <sup>1</sup> , <b>Svetlana V. Barabanova</b> <sup>1</sup> , <b>Natalia V. Kraysman</b> <sup>1</sup> , <b>Nataliya V. Nikonova</b> <sup>1</sup> , <b>Vladimir V. Nasonkin</b> <sup>2</sup> 1: Kazan National Research Technological University, Russian Federation; 2: Russian Peoples' Friendship University  <b>Design of PBL Educational Program in Collaboration with Printing Company: Paper Toy / Paper Craft Development Project</b> <b>Akiyuki Minamide</b> , <b>Kazuya Takemata</b> International College of Technology, Japan  <b>Development of Communication Skills for Future Engineers</b> <b>Guzel Rafealevna Khusainova</b> <sup>1</sup> , <b>Adelina Erkinovna Astafeva</b> <sup>1</sup> , <b>Liliya Rustemovna Gazizulina</b> <sup>1</sup> , <b>Gulnaz Nurkhametovna Fakhretdinova</b> <sup>1</sup> , <b>Julia Yurievna Yakimova</b> <sup>2</sup> 1: Kazan National Research Technological University, Russian Federation; 2: Kazan Volga Federal University, Russian Federation  <b>Design of an Educational Program for Freshmen before Practicing Project Based Learning: Utilization of Digital Storytelling</b> <b>Kazuya Takemata</b> , <b>Akiyuki Minamide</b> International College of Technology, Kanazawa, Japan  <b>Multilingualism as a Means of Students' Technocommunicational Competence Forming at Engineering University</b> <b>Ekaterina Tsareva</b> , <b>Roza Bogoudinova</b> , <b>Leisan Khafisova</b> , <b>Gulnaz Fakhretdinova</b> Kazan National Research Technological University, Russian Federation  <b>Creative, Mental, and Innovation Competences Formation in Engineering Education: Systemic Pattern of Labor Productivity Increase in Industry</b> <b>Lev Vadimovich Redin</b> , <b>Mansur Floridovich Galikhanov</b> Kazan National Research Technological University, Russian Federation  <b>Poster: Variable Scenarios of the VR Use in Training Engineers for Petrochemical Industry</b> <b>Gulnara Fatykhovna Khasanova</b> , <b>Farida Tagirovna Shageeva</b> Kazan National Research Technological University, Russian Federation

<b>Development and Implementation of Electronic Applications based on Arduino Platform for a First Basic Course</b> <b>Trujillo Aguilera Francisco David, Blazquez Parra Elidia Beatriz, Palomares Vigil Antonio, Marin Bao Teresa</b> University of Malaga, Spain							
9:00am - 10:30am	<p><b>PS 3A: Parallel Sessions : Interactive Learning</b>            Location: <b>Pinnacle I-II</b>            Chair: <b>Panita Wannapiroon</b>, King Mongkut's University of Technology North Bangkok</p> <p><b>Distance Interactive Collaborative Training For Future Teachers</b>  <b>Margarita Alexandrovna Mosina<sup>1</sup>, Larisa Alexandrovna Kosolapova<sup>2</sup>, Anna Illarionovna Sannikova<sup>1</sup>, Venera Viktorovna Korobkova<sup>1</sup>, Natalya Vladimirovna Tarinova<sup>1</sup></b>            1: Perm State Humanitarian Pedagogical University, Russian Federation; 2: Perm State University, Russian Federation</p> <p><b>Video Games and their Correlation to Empathy. How to teach and experience empathic emotion</b>  <b>Ossy Dwi Endah Wulansari, Johanna Pirker Pirker, Johannes Kopf Kopf, Christian Guetl Guetl</b>            Graz University of Technology, Austria</p> <p><b>The Development of an Artificial Intelligence Assistant for Participatory Design in the Engineering Design Educational Environment</b>  <b>Yu-Hung Chien, Hsien-Sheng Hsiao, Yu-Shan Chang, Chun-Kai</b></p>	<p><b>PS 3B: Parallel Sessions : Information Communication Technology for Education</b>            Location: <b>Pinnacle VI</b>            Chair: <b>Agnieszka Miguel</b>, Seattle University</p> <p><b>Evaluation on Academic Libraries' Websites of the Autonomous State Universities for the Minimal Level of Success and Failure Criteria</b>  <b>Nathaporn Utakrit, Pornwilai Sukmak</b>            King Mongkut's University of Technology North Bangkok, Thailand</p> <p><b>"Collaboratively Learning and Developing a Tool Kit for GPS Anti-Jamming"</b>  <b>Muhammad Zain Ul Abiden, Sarmad Ahmed Shaikh, Syed Masaab Ahmed, Muhammad Minhaj Arshad</b>            PAF-Karachi Institute of Economics and Technology, Pakistan</p> <p><b>Allocation of Latent Variables from Big Data in Institutional Researches of Engineering Teachers</b>  <b>Olena Kovalenko, Tetiana Bondarenko, Oleksandr Kupriyanov, Iryna Khotchenko</b>            Ukrainian Engineering Pedagogics Academy, Ukraine</p> <p><b>Analysis Dropout Situation of Business Computer Students at University of Phayao</b>  <b>Pratya Nuankaew<sup>1</sup>, Wongpanya Nuankaew<sup>2</sup>, Kanakarn Phanniphong<sup>3</sup>,</b></p>	<p><b>PS 3C: Parallel Sessions : Technical Teacher Training</b>            Location: <b>Pinnacle III</b>            Chair: <b>Prachyanun Nilsook</b>, King Mongkut's University of Technology North Bangkok</p> <p><b>Improvement of In-Company Trainers' Competencies using Simulation-Based Training for EEC Electronics Industries</b>  <b>Ekkaphan Phachroen, Somsak Akatimagool</b>            King Mongkut's university of technology north bangkok, Thailand</p> <p><b>Development and Efficiency Test of the Training Manual for IoT Programmer: A Case Study of Smart Factory</b>  <b>Anuchit Narkglom, Ekkamol Boonyapalanant, Poolsak Koseeyaporn</b>            King Mongkut's University of Technology Of Bangkok, Thailand</p> <p><b>Management of Learning and Teaching Activities in Promoting Practical Skills for Industrial Electronic Education</b>  <b>Kanokwan Ruangsiri, Somsak Akatimagool</b>            King Mongkut's University of Technology of Bangkok, Thailand</p> <p><b>The University Curricula and Creativity. A Point of View</b>  <b>Cornel Samoila<sup>1</sup>, Doru Ursutiu<sup>2</sup></b>            1: "TRANSILVANIA" University - ASTR - Romania, Romania; 2: "TRANSILVANIA" University - AOSR - Romania, Romania</p> <p><b>Inventive for teaching Braille writing begins</b>  <b>Yupin Suppakhun, Peerasak Serikul</b>            King Mongkut's</p>	<p><b>PS 3D: Parallel Sessions : Research in Engineering Pedagogy</b>            Location: <b>Pinnacle IV</b>            Chair: <b>Mesut Alptekin</b>, University Paderborn</p> <p><b>Engineering Education: Elite Training In A Technological University</b>  <b>Olga Yurievna Khatsrinova, Ekaterina Nikolaevna Tarasova, Lyubov Vasilievna Ovsienko, Sergey Vladimirovich Yushko, Mansur Floridovich Galikhanov</b>            Kazan National Reaserch Technological University, Russian Federation</p> <p><b>Correlation between Systems Thinking and Abstract Thinking among High School Students Majoring in Electronics</b>  <b>Aharon Gero, Aziz Shekh-Abed, Orit Hazzan</b>            Technion - Israel Institute of Technology, Israel</p> <p><b>A Development of Cognitive Tools to Enhance Problem – Solving in Basic Microcontroller Learning for Electrical Engineering Student</b>  <b>Kitti Surpare, Kanokwan Klinieam</b>            KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK, Thailand</p> <p><b>Measuring Students' Device Specific Competencies Using An Eye-Tracking Study On Oscilloscopes</b>  <b>Mesut Alptekin, Katrin Temmen</b>            University Paderborn, Germany</p>	<p><b>PS 3E: Parallel Sessions : Collaborative Learning</b>            Location: <b>Pinnacle V</b>            Chair: <b>Teeratorn Saneeyeng</b>, KMUTNB</p> <p><b>The Development of C&amp;A Technique for Learning Management to Enhance Instructional Media Creation Skills in a Cloud-Based Learning Environment for Undergraduate Students</b>  <b>Kanitta Hinon</b>            KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK, Thailand</p> <p><b>Increasing College Student Engagement with Digital Media and a Dedicated Space: An Exploratory Approach</b>  <b>Delia Perez-Lozano<sup>1</sup>, Luis Rocha-Lona<sup>2</sup></b>            1: Tecnologico de Monterrey, Mexico; 2: ESCA Santo Tomás, Instituto Politécio Nacional</p> <p><b>Conceptual Framework on League Learning Management</b>  <b>Anutchai Chutipascharoen, Soradech Krootjohn</b>            King Mongkut's University of Technology North Bangkok, Thailand</p> <p><b>Modeling the Behaviors of Participants in Meetings for Decision Making Using OpenPose</b>  <b>Eiji Watanabe<sup>1</sup>, Takashi Ozeki<sup>2</sup>, Takeshi Kohama<sup>3</sup></b>            1: Konan University, Japan; 2: Fukuyama University, Japan; 3: Kindai University, Japan</p> <p><b>Visualization of the Concentration Degree by using Biological</b></p>		

	<p><b>Yao</b> National Taiwan Normal University</p> <p><b>Contribution To Improvement Of Distance Learning Based On Zeroconf Protocol And An Interactive IPTV</b></p> <p><b>Massamba Seck, Baboucar Diatta, Samuel Ouya, Gervais Mendy, Kokou Gaglou</b> Laboratory LIRT, Ecole Supérieure Polytechnique, Université Cheikh Anta DIOP (U.C.A.D.), Sénégal</p> <p><b>The Learning Material Classified Model Using VARK Learning Style</b></p> <p><b>Beesuda Daoruang, Anirach Mingkhwan, Charun Sanrach</b> King Mongkut's University of Technology North Bangkok, Thailand</p>	<p><b>Rerkchai Foorateepsiri<sup>3</sup>, Sittichai Bussaman<sup>4</sup></b> 1: School of Information and Communication Technology, University of Phayao, Phayao, Thailand.; 2: Faculty of Information Technology, Rajabhat Mahasarakham University, Maha Sarakham, Thailand.; 3: Faculty of Business Administration and Information Technology, Rajamangala University of Technology Tawan-Ok, Thailand.; 4: Faculty of Science and Technology, Rajabhat Mahasarakham University, Maha Sarakham, Thailand.</p> <p><b>An Intelligent Assessment using Variable N-gram Technique</b></p> <p><b>Sadhu Prasad Kar<sup>1</sup>, Jyotsna Kumar Mandal<sup>1</sup>, Rajeev Chatterjee<sup>2</sup></b> 1: University of Kalyani, Kalyani, India; 2: National Institute of Technical Teachers' Training and Research, Kolkata, India</p>	<p>University of Technology North Bangkok., Thailand</p>	<p><b>Towards A Broader Acceptance Of Formal Verification Tools: The Role Of Education</b></p> <p><b>Mansur Khazeev, Manuel Mazzara, Daniel de Carvalho, Hamna Aslam</b> Innopolis University, Russian Federation</p>	<p><b>Information</b></p> <p><b>Kuniaki Yajima<sup>1</sup>, Keiichi Yonemura<sup>3</sup>, Yoshihiro Takeichi<sup>2</sup>, Jun Sato<sup>2</sup></b> 1: National Institute of Technology, Sendai college, Japan; 2: National Institute of Technology, Tsuruoka College; 3: National Institute of Technology Kisarazu college, Kisarazu, Japan</p>	
<p>10:30am - 11:00am</p>	<p><b>CB4: Coffee Break</b> Location: <b>Breakout Room</b></p>					
<p>11:00am - 12:30pm</p>	<p><b>PS 4A: Parallel Sessions : Collaborative Learning</b> Location: <b>Pinnacle I-II</b> Chair: <b>Nathaporn Utakrit</b>, King Mongkut's University of Technology North Bangkok Chair: <b>Asanthika Medawani Imbulpitiya</b>, Sri Lanka Institute of Information Technology</p> <p><b>Proposal of the Objective Function of Trust for the Dynamic Delegation and Automatic Revocation of Roles</b></p> <p><b>Jeanne Roux Ngo Bilong, Adam Ismael</b></p>	<p><b>PS 4B: Parallel Sessions : Information Communication Technology for Education</b> Location: <b>Pinnacle VI</b> Chair: <b>Teeratorn Saneeyeng</b>, KMUTNB</p> <p><b>Student Relationship Management Using Business Intelligence Model to Enhance Student's Leadership in 21st Century Chanin Tungpantong<sup>1</sup>, Pallop Piriyasurawong<sup>2</sup></b> 1: King Mongkut's University of Technology</p>	<p><b>PS 4C: Parallel Sessions : Technical Teacher Training</b> Location: <b>Pinnacle III</b> Chair: <b>Wattana Kaewmanee</b>, KMUTNB</p> <p><b>Teaching Based On Challenges: Academic Impact In The Industrial Networks Class</b></p> <p><b>Virgilio Vasquez-Lopez</b>, Luis Mauro Ortega-Gonzalez, Agustin Vazquez-Sanchez ITESM-CEM, Mexico</p> <p><b>Improvement of Rational Thinking Competency of Pre-service Teachers for Electrical Engineering Education</b></p> <p><b>Nutchanat</b></p>	<p><b>PS 4D: Parallel Sessions : Research in Engineering Pedagogy</b> Location: <b>Pinnacle IV</b> Chair: <b>Danai Torrungrueng</b>, KMUTNB</p> <p><b>Project Interdisciplinarity in Legal Students Education</b></p> <p><b>Svetlana Vasilievna Barabanova<sup>1</sup>, Natalia V. Kraysman<sup>1</sup>, Timofey Grigorievich Makarov<sup>2</sup>, Larisa G. Schurikova<sup>1</sup>, Fyodor G. Myshko<sup>3</sup></b> 1: Kazan National Technological University, Russian Federation; 2: Kazan Federal University; 3: State University of</p>	<p><b>PS 4E: Parallel Sessions : Electrical and Electronic Engineering</b> Location: <b>Pinnacle V</b> Chair: <b>Titipong Lertwiriyaprapa</b>, KMUTNB</p> <p><b>Learning Enhancement of Electrical Engineering Students (TU Dawei) by Using the Developed Voltage Source Inverter (VSI) for 3-Phase Induction Motor Drives by Modern 32-bits Microcontroller</b></p> <p><b>Ye Win Naing, Panarit Sethakul, Myo Thu Win</b> Technological University (Dawei), Myanmar, King</p>	



<p><b>Paco Sie, Gervais Mendy, Cheikhane Seyed, Samuel Ouya, Papa Samour Diop, Djiby Sow</b> University Cheikh Anta Diop, Senegal</p>	<p>Thonburi, Thailand; 2: King Mongkut's University of Technology North Bangkok, Thailand</p>	<p><b>Chumchuen</b> King Mongkut's University of Technology North Bangkok, Thailand</p>	<p>Management</p>	<p>Mongkut's University of Technology North Bangkok (KMUTNB), Thailand, Technological University (Dawei), Myanmar</p>
<p><b>Adaptation of Professional Engineering Training to the Challenges of Modern Digital Production</b></p>	<p><b>Possibilities for Correcting SQL Exercises Automatically</b> <b>Gabriella Baksa-Haskó</b> Corvinus University of Budapest, Hungary</p>	<p><b>Project Activities In Technical Institutes As A Mean Of Preparing Students For Life And Professional Self-Determination</b> <b>Anastasia Tabolina, Elena Gulk, Dmitriy Tikhonov, Tatyana Baranova, Marina Olennikova, Pavel Kozlovskij</b> Peter the Great St.Petersburg Polytechnic University, Russian Federation</p>	<p><b>Time Analysis of Teaching and Learning Method Based on LOVE Model</b> <b>Athakorn Kengpol<sup>1</sup>, Nitidetch Koohathongsumrit<sup>2</sup>, Warapoj Meethom<sup>1</sup></b> 1: King Mongkut's University of Technology North Bangkok, Thailand; 2: Ramkhamhaeng University, Thailand</p>	<p><b>Heterogeneous Computing Exercises in Digital Signal Processing Applications</b> <b>Christian Madritsch, Thomas Klinger, Andreas Pester</b> FH Kärnten, Austria</p>
<p><b>Ludmila Vasilievna Juravleva<sup>1</sup>, Vadim Anatolievich Shakhnov<sup>2</sup>, Andrey Igorevich Vlasov<sup>3</sup></b> 1: Bauman Moscow State Technical University, Moscow, Russian Federation; 2: Bauman Moscow State Technical University, Moscow, Russian Federation; 3: Bauman Moscow State Technical University, Moscow, Russian Federation</p>	<p><b>WhatsApp as a Support Tool for Language Learning by Immigrants</b> <b>Hagit Meishar-Tal, Tamara Reuveni, Shai Sofer</b> Holon Institute of Technology, Israel</p>	<p><b>Professional Learning Community Training Model through Cloud Technology to Enhance Competence Learning Management Teacher</b> <b>Napajit Dussadee, Pallop Piriyasurawong</b> King Mongkut's University of Technology North Bangkok, Thailand</p>	<p><b>Engineering Education Through The Eyes Of A Young Specialist: Information For Consideration</b> <b>Olga Khatsrinova<sup>1</sup>, Alexander Troitsky<sup>2</sup>, Julia Khatsrinova<sup>1</sup>, Weronika Bronskaia<sup>1</sup></b> 1: KNRTU, Kazan, Russian Federation; 2: State University of Management, Russia, Moscow</p>	<p><b>Virtual Laboratory Development in Measuring Antenna Radiation Pattern for Engineering Education</b> <b>Kobkhun Chaiyawong, Somsak Akatimagool</b> Faculty of Technical Education, King Mongkut's University of Technology North Bangkok, Thailand</p>
<p><b>Work-in-Progress: Reducing Social Loafing in Information Technology Undergraduate Group Projects</b> <b>Uthpala Prasadini Samarakoon<sup>1</sup>, Asanthika Imbulpitiya<sup>2</sup></b> 1: Sri Lanka Institute of Information Technology, Sri Lanka; 2: Sri Lanka Institute of Information Technology, Sri Lanka</p>	<p><b>Backward Design with Virtual Learning Ecosystem Model to Enhance Design Thinking and Innovation</b> <b>Chananchida Chunphongsuk, Pallop Piriyasurawong, Pinanta Chatwattana</b> KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK</p>	<p><b>Emotional Intelligence Of Secondary Technical School Students And Its Impact On Their Employment In Professional Practice</b> <b>Roman Hrmo<sup>1</sup>, Lucia Krištofiaková<sup>1</sup>, Juraj Miština<sup>2</sup></b> 1: DTI University, Slovak Republic; 2: University of Ss. Cyril and Methodius in Trnava, Slovak Republic</p>	<p><b>Improvement of Pre-service Teachers' Professional Competencies using DAPOA Project-based Learning</b> <b>Pichit Uantrai, Somsak Akatimagool</b> KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK, Thailand</p>	<p><b>Integration of Digital Technology Applications into the Pre-gradual Teacher Training</b> <b>Ján Záhorec<sup>1</sup>, Alena Hašková<sup>2</sup>, Michal Munk<sup>2</sup></b> 1: Comenius University in Bratislava, Slovak Republic; 2: Constantine the Philosopher University in Nitra, Slovak Republic</p>
<p><b>Development of Soft Skills by Doctoral Students</b> <b>Elvira Valeeva, Julia Ziyatdinova, Farida Galeeva</b> Kazan National Research Technological University, Russian Federation</p>	<p><b>Proposal Of A Platform For Practical Work To Improve The Learning Conditions Of Medical Learners In Developing Countries</b> <b>Bessan Melckior Dégbôé, Latyr Ndiaye, Samuel Ouya, Gervais Mendy</b> Higher Polytechnic School, Cheikh Anta Diop University, Senegal</p>	<p><b>Active Learning - Competency Development Strategy</b> <b>Olga Khatsrinova<sup>1</sup>, Olga Seliverstova<sup>2</sup>, Julia Khatsrinova<sup>1</sup>, Ekaterina Tarasova<sup>1</sup>, Svetlana Barabanova<sup>1</sup></b> 1: KNRTU, Russian Federation; 2: Federal Center for Educational Legislation, Moscow, Russian Federation</p>	<p><b>Development of an Instructional Package on Embedded System Design: Backward Design Learning Approach</b> <b>Surasak Inchan, Somsak Akatimagool</b> King Mongkut's University of Technology North Bangkok, Thailand</p>	<p><b>Development of an Instructional Package on Embedded System Design: Backward Design Learning Approach</b> <b>Surasak Inchan, Somsak Akatimagool</b> King Mongkut's University of Technology North Bangkok, Thailand</p>

	<p><b>Engineering Slam As a Project of Popularizing Sciences and Engineering Competencies</b>  <b>Zulfiya Kadeeva, Alla Kaybiyaynen, Olga Lisina, Elena Terner</b>          Kazan National Research Technological University, Russian Federation</p>					
12:30pm - 1:30pm	<p><b>L3: Lunch</b>          Location: <b>Espresso Restaurant</b></p>					
1:30pm - 3:00pm	<p><b>PS 5A: Parallel Sessions : Collaborative Learning</b>          Location: <b>Pinnacle I</b>          Chair: <b>Krismant Whattananarong, KMUTNB</b></p> <p><b>Combining the Imagineering Process and STEAM-GAAR Field Learning Model to Create Collaborative Art Innovation</b>  <b>Wannaporn Chujitarom<sup>1</sup>, Pallop Piriyasurawong<sup>2</sup></b>          1: Rangsit University, Thailand; 2: King Mongkut's University of Technology North Bangkok, Thailand</p> <p><b>A Collaborative Approach in Designing Curriculum for Industry 4.0 Software Integration Implementation</b>  <b>Dan Centea, Seshasai Srinivasan, Ishwar Singh, Tom Wanyama</b>          McMaster University, Canada</p> <p><b>A Systematic Approach in Implementing Complex Problem Solving in the Engineering Curriculum</b>  <b>Chia Pao</b></p>	<p><b>PS 5B: Parallel Sessions : Information Communication Technology for Education</b>          Location: <b>Pinnacle II</b>          Chair: <b>Nattavee Utakrit, KMUTNB</b></p> <p><b>Information and Computer Support for Adaptability of Learning in Higher Education Institutions</b>  <b>Olena Kovalenko, Nataliaia Briukhanova, Tetiana Bondarenko, Tatjana Yaschun</b>          Ukrainian Engineering Pedagogics Academy, Ukraine</p> <p><b>Mobile Learning of Mathematics Games to Enhance Problem-Solving Skills</b>  <b>Pallop Piriyasurawong, Supparang Ruangvanich</b>          King Mongkut's University of Technology North Bangkok, Thailand</p> <p><b>Problem-Based Learning (PBL) in Engineering Education in Sri Lanka: A Moodle based Approach</b>  <b>Anuradha Peramunugamage<sup>1</sup>, Hakim Usoof<sup>2</sup>, Priyan Dias<sup>1</sup>, Rangika Halwatura<sup>1</sup></b>          1: University of Moratuwa, Sri</p>	<p><b>PS 5C: Parallel Sessions : Vocational Education Development</b>          Location: <b>Pinnacle III</b>          Chair: <b>Harald Wahl, UAS Technikum Wien</b></p> <p><b>The Evaluation of the Work-integrated Computer Science Degree Program at the UAS Technikum Wien</b>  <b>Harald Wahl, Sabrina Rubenzer, Alexander Mense</b>          UAS Technikum Wien, Vienna, Austria</p> <p><b>Utilization Techniques and Guidelines for Benchmarking+USP within BOS in Identifying Distinct Excellence for CoEs in TVET</b>  <b>Adisorn Ode-sri<sup>1</sup>, Hanno Hortsch<sup>1</sup>, Thomas Köhler<sup>1</sup>, Saowakhon Khunnawut<sup>2</sup>, Sukanjana Lekapat<sup>2</sup></b>          1: Technische Universität Dresden, Germany; 2: King Mongkut's University of Technology North Bangkok, Thailand</p> <p><b>A Case Study of How Centers of Excellence on TVET are operated in Asia and Europe to Enhance an Understanding of Definitions and Classification</b>  <b>Adisorn Ode-sri<sup>1</sup>, Hanno Hortsch<sup>1</sup>, Thomas Köhler<sup>1</sup>, Saowakhon</b></p>	<p><b>PS 5D: Parallel Sessions : 21st Century Learning</b>          Location: <b>Pinnacle IV</b>          Chair: <b>Pichet Sriyanyong, Faculty of Technical Education King Mongkut's University of Technology North Bangkok</b></p> <p><b>Management Model for Excellent World-Class Research Center</b>  <b>Sukanjana Lekapat, Panarit Sethakul, Mathepot Phattanasak</b>          KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK, Thailand</p> <p><b>Diversity Leadership of Students in International Program at Thai University. A Case Study of International College, KMUTNB.</b>  <b>Maichanok Krapookthong</b>          King Mongkut's University of Technology North Bangkok, Thailand</p> <p><b>The Needs-Oriented Approach of the Dresden School of Engineering Pedagogy and Education</b>  <b>Diego Gormaz-Lobos<sup>1,5</sup>, Claudia Galarce-Miranda<sup>1,5</sup>, Hanno Hortsch<sup>2,3</sup>, Steffen Kersten<sup>2,4</sup></b>          1: Universidad de</p>	<p><b>PS 5E: Parallel Sessions : Engineering Education</b>          Location: <b>Pinnacle V</b>          Chair: <b>Sacharuck Pornpeerakeat, KMUTNB</b></p> <p><b>Learning Modules for Visual-based Position Tracking and Path Controlling of Autonomous Robots using Pure Pursuit</b>  <b>Supod Kaewkorn, Chanin Joochim</b>          King Mongkut's University of Technology North Bangkok, Thailand</p> <p><b>I 4.0 Production Plant For Educational Use</b>  <b>Robert Hauss, Gabriele Schachinger, Gerald Kalteis</b>          TGM, Austria</p> <p><b>Training Required for Quality Management in Gas Station Construction Projects</b>  <b>Suchanya Posayanant, Thidapat Saengthong</b>          KMUTNB, Thailand</p> <p><b>Engagement in Learning through Design and Experimentation with Robots</b>  <b>Huberth Perez, Igor Michael Verner</b>          Technion, Israel</p> <p><b>A Unified Concept of Element-Joint</b></p>	<p><b>PS 5F: Parallel Session : Research in Engineering Pedagogy</b>          Location: <b>Pinnacle VI</b>          Chair: <b>Soradech Krootjohn, King Mongkut's University of Technology North Bangkok</b></p> <p><b>Mobile Apps (EnglishListening and 6 Minute English) and the Listening skill.</b>  <b>Valeria Carolina Mendoza Chava, Ana Jazmina Vera de la Torre</b>          Universidad Técnica de Ambato, Ecuador</p> <p><b>Improvement of Emotional Intelligence in the Leader Training</b>  <b>Blanca Rocio Cuij Chacha, Wilma Lorena Gavilanes López, Cristina Andrea Sanchez López, Wilma Guadalupe Villacis Villacis</b>          Universidad Técnica de Ambato, Ecuador</p> <p><b>Methodology for the design of Educational Experiences using Augmented Reality with University Students</b>  <b>Wilma Lorena Gavilanes<sup>1</sup>, Blanca Rocio Cuij<sup>1</sup>, Javier Vinicio Salazar<sup>1</sup>, María José Abasolo<sup>2</sup></b>          1: Universidad Técnica de Ambato,</p>

<p><b>Liew<sup>1,2,4</sup>, Siti Hawa Hamzah<sup>2</sup>, Marlia Puteh<sup>3</sup>, Shahrin Mohammad<sup>2,4</sup>, Wan Hamidon Wan Badaruzzaman<sup>2,5</sup></b>  1: Tunku Abdul Rahman University College, Kuala Lumpur, Malaysia; 2: Engineering Accreditation Department, Board of Engineers, Kuala Lumpur, Malaysia; 3: Centre for Engineering Education, Universiti Teknologi Malaysia, Johor, Malaysia; 4: Universiti Teknologi Malaysia, Johor, Malaysia; 5: Universiti Kebangsaan Malaysia, Selangor, Malaysia</p>	<p>Lanka; 2: University of Peradeniya, Sri Lanka</p> <p><b>Augmented Reality Imagineering Model for Learning Management with Cloud Learning Environment to Encourage The Innovative Skills of Undergraduates</b>  <b>Kanitta Hinon</b>  KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK, Thailand</p>	<p><b>Khunnawut<sup>2</sup>, Sukanjana Lekapat<sup>2</sup></b>  1: Technische Universität Dresden, Germany; 2: King Mongkut's University of Technology North Bangkok, Thailand</p> <p><b>Background of the Revision of the Secondary School Engineering Curriculum in the Context of the Society 4.0</b>  <b>Josef Malach, Dana Vicherkova</b>  University of Ostrava, Czech Republic</p>	<p>Talca, Chile; 2: Technische Universität Dresden, Germany; 3: IGIP; 4: IPW; 5: CIEI - IGIP Zentrum Universidad de Talca, Chile</p> <p><b>An Effect of Implementing the Virtual Community of Practice Using Human Performance Technology Model to Enhance Innovation Competency and Innovation for High Performance Organization</b>  <b>Purita Sayavarant<sup>1</sup>, Paliop Piriyasurawong<sup>2</sup></b>  1: King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand; 2: King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand</p>	<p><b>Model for Applied Mathematics with Structural Mechanic Engineering Education</b>  <b>Sacharuck Pornpeerakeat<sup>1</sup>, Pasin Plodpradit<sup>2</sup></b>  1: KMUTNB, Thailand; 2: Konkuk University, Republic of Korea</p>	<p>Facultad de Ciencias Humanas y de la Educación, Ecuador; 2: Instituto de Investigación en Informática LIDI (III-LIDI), Facultad de Informática – Universidad Nacional de La Plata, UNLP</p> <p><b>Iconographic Virtual Learning Environments in the Students Cognitive Skills with Attention Deficit Hyperactivity Disorder (ADHD)</b>  <b>Cristina Jordan Buenaño, Cristina Paez-Quinde</b>  Universidad Técnica de Ambato, Ecuador</p>
<p><b>The Use Of The Project-Based Learning In The Study Of The Course Of Mathematical Analysis</b>  <b>Svetlana Vladimirovna Rozhkova, Irina Georgievna Ustinova, Igor Vitalievich Korytov, Olga Vladimirovna Yanuschik</b>  Tomsk Polytechnic University, Russian Federation</p>	<p><b>Technological Support of Teaching in The Area of Creating a Personalized E-course of Informatics</b>  <b>Milan Turčáni, Zoltán Balogh</b>  Constantine the Philosopher University in Nitra, Slovak Republic</p>	<p><b>Mentoring Across Cultures and Professions: Approaches and Methods</b>  <b>Julia Ziyatdinova, Petr Osipov, Indira Irismetova</b>  Kazan National Research Technological University, Russian Federation</p>	<p><b>Impact of Zeroconf Protocol In Distance Learning</b>  <b>Massamba Seck<sup>1</sup>, Baboucar Diatta<sup>1</sup>, Samuel Ouya<sup>2</sup>, Gervais Mendy<sup>2</sup>, Bessan Degboe<sup>2</sup></b>  1: Université Alioune DIOP, Senegal; 2: Université Cheikh Anta Diop, Senegal</p>		<p><b>Accessible Portal For School-Age Blind, As A Tool To Improve Social Skills</b>  <b>Mentor Javier Sanchez Guerrero</b>  Universidad Técnica de Ambato, Ecuador</p>
<p><b>Using Active Learning Methods within the Andragogical Paradigm</b>  <b>Svetlana V. Barabanova<sup>1</sup>, Nataliya V. Nikonova<sup>1</sup>, Irina V. Pavlova<sup>1</sup>, Rozalina V. Shagieva<sup>2</sup>, Maria S. Suntsova<sup>1</sup></b>  1: Kazan National Research Technological University; 2: State University of Management</p>					<p><b>Application Of Metaverses As An Evaluation Tool In The Baccalaureate</b>  <b>Mentor Javier Sanchez Guerrero</b>  Universidad Técnica de Ambato, Ecuador</p>

3:30pm - 3:30pm	<b>CB5: Coffee Break</b> Location: <b>Breakout Room</b>					
3:30pm - 5:00pm	<p><b>PS 6A: Parallel Sessions : Research in Engineering Pedagogy</b>          Location: <b>Pinnacle I</b>          Chair: <b>Istvan Simonics</b>, Óbuda University</p> <p><b>Engineering Pedagogy in Chilean context: Some results from the PEDING-Project</b>  <b>Diego Gormaz-Lobos<sup>1,4</sup></b>, <b>Hanno Hortsch<sup>2,3</sup></b>, <b>Claudia Galarce-Miranda<sup>1,4</sup></b>, <b>Steffen Kersten<sup>1,5</sup></b>          1: Universidad de Talca, Chile; 2: Technische Universität Dresden, Germany; 3: IGIP; 4: CIEI - IGIP Zentrum Universidad de Talca, Chile; 5: IPW</p> <p><b>Evaluation results of the first training program on Engineering Pedagogy in Chilean Universities</b>  <b>Diego Gormaz-Lobos<sup>1,5</sup></b>, <b>Hanno Hortsch<sup>2,3</sup></b>, <b>Claudia Galarce-Miranda<sup>1,5</sup></b>, <b>Steffen Kersten<sup>2,4</sup></b>, <b>Patricia Maldonado<sup>6</sup></b>, <b>Paul Fuentes<sup>1,5</sup></b>, <b>Jorge Hinojosa<sup>1</sup></b>, <b>Pablo Rojas<sup>1,5</sup></b>, <b>Nancy Calisto<sup>6</sup></b>, <b>Richard Lagos<sup>6</sup></b>, <b>Guillermo Schaffeld<sup>7</sup></b>          1: Universidad de Talca, Chile; 2: Technische Universität Dresden, Germany; 3: IGIP; 4: IPW; 5: CIEI - IGIP Zentrum Universidad de Talca, Chile; 6: Universidad de Magallanes, Chile; 7: Universidad Autónoma de Chile</p>	<p><b>PS 6B: Parallel Sessions : E-Learning</b>          Location: <b>Pinnacle II</b>          Chair: <b>Herwig Rehatschek</b>, Medical University of Graz</p> <p><b>Mobile Mini Laboratory Mode High Transaction Distance Model to Develop Problem Solving Skills and Maintenance Skills in the Industry</b>  <b>Siranan Boonyapalanant<sup>1</sup></b>, <b>Pallop Piriyasurawong<sup>2</sup></b>          1: KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK, Thailand; 2: KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK, Thailand</p> <p><b>Successful embedding of Virtual Lectures in Medical Psychology Education in order to improve teacher-student Interactivity and Collaboration</b>  <b>Herwig Rehatschek</b>, <b>Franziska Matzer</b>, <b>Christian Vajda</b>, <b>Christian Fazekas</b>          Medical University of Graz, Austria</p> <p><b>Engineering Project-Based Learning Model Using Virtual Laboratory mix Augmented Reality to Enhance Engineering and Innovation Skills</b>  <b>Wanwisa Wattanasin</b>, <b>Pinanta Chatwattana</b>, <b>Pallop Piriyasurawong</b>          King mongkut's university of technology north bangkok, Thailand</p> <p><b>The e-learning environment in</b></p>	<p><b>PS 6C: Parallel Sessions : Vocational and Engineering Education</b>          Location: <b>Pinnacle III</b>          Chair: <b>Sobsan Utakrit</b>, KMMUTNB</p> <p><b>Enhancing Dual Vocational Education in Conditions of Slovakia</b>  <b>Alena Hašková<sup>1</sup></b>, <b>Martin Zatkalič<sup>2</sup></b>          1: Constantine the Philosopher University in Nitra, Slovak Republic; 2: Upper Secondary Vocational School for Transport in Bratislava, Slovak Republic</p> <p><b>Proposal Of An Interactive IPTV Platform To Improve The Quality Of Service Of E-learning Platforms</b>  <b>Ulrich Hermann</b>, <b>Sēmèvo Boko</b>, <b>Bessan Melckior Dégbóé</b>, <b>Samuel Ouya</b>, <b>Gervais Mendy</b>          Laboratory LIRT, Higher Polytechnic School, University Cheikh Anta Diop of Dakar</p> <p><b>The Supervision Model of Professional Experience Training by Using Intelligent Portfolio with the Service Agent</b>  <b>Sittidat Kittiviriyaarn</b>, <b>Pallop Piriyasurawong</b>          King Mongkut's University of Technology North Bangkok, Thailand</p> <p><b>Motivation And It's Connection With The Achievements In Math Of University Students</b>  <b>Elena Gennadevna Lazareva<sup>1</sup></b>, <b>Irina Georgievna Ustinova<sup>2</sup></b>          1: Tomsk State University, Russian Federation; 2: Tomsk Polytechnic University, Russian Federation</p> <p><b>An Empirical Study of Critical Factors Relating to Higher Education Students' Loyalty in</b></p>	<p><b>PS 6D: Parallel Sessions : 21st Century Learning</b>          Location: <b>Pinnacle IV</b>          Chair: <b>Pichet Sriyanyong</b>, Faculty of Technical Education King Mongkut's University of Technology North Bangkok</p> <p><b>Development of Pick and Place Delta Robot</b>  <b>Chanin Joochim<sup>1</sup></b>, <b>Supod Kaewkorn<sup>1</sup></b>, <b>Alisa Kunapinun<sup>2</sup></b>          1: KMUTNB, Thailand; 2: AIT, Thailand</p> <p><b>Terminology Glossaries for Engineering Students of Kirghizstan</b>  <b>Tatiana Polyakova</b>          Moscow Automobile and Road Construction State Technical University (MADI), Russian Federation</p> <p><b>Predictive Model for Improvement of Spatial Visualization Skills</b>  <b>Jorge Rodriguez</b>          Western Michigan University, United States of America</p> <p><b>Guidelines for Increasing Operational Efficiency for Entrepreneurs of One Tambon One Product (OTOP) in Rayong.</b>  <b>Kritchouw Nanthasudsawaeng</b>          KMUTNB, Thailand</p> <p><b>Educational Crisis In The Context Of Master's: Employers' Opinions</b>  <b>Gulshat Nazifovna Sukhanova</b>, <b>Anna Vladimirovna Garmonova</b>          National Research University Higher School of Economics, Russian Federation</p> <p><b>Soft Skills of Engineers in the Era of the Fourth</b></p>	<p><b>PS 6E: Parallel Sessions : Research in Engineering Pedagogy</b>          Location: <b>Pinnacle V</b>          Chair: <b>Chaiwichit Chianchana</b>, KMUTNB</p> <p><b>Research of Teachers' Digital Competences in an International Context</b>  <b>Petr Svoboda</b>, <b>Jitka Lorenzova</b>, <b>Blanka Jirkovská</b>, <b>Lenka Mynaříková</b>, <b>Alena Vališová</b>, <b>Pavel Andres</b>          CTU MIAS, Masaryk Institute of Advanced Studies, Czech Technical University in Prague, Czech Republic</p> <p><b>Development of Research-Based RRSDI Learning Model for Telecommunication Engineering Education</b>  <b>Nattapong Intarawiset<sup>1</sup></b>, <b>Sivadol Nounoppadol<sup>2</sup></b>, <b>Rattapon Jeenawong<sup>3</sup></b>, <b>Somsak Akatimagool<sup>1</sup></b>          1: King Mongkut's University of Technology North Bangkok, Thailand; 2: Rattaphum College Rajamangala University of Technology Srivijaya.; 3: Rajamangala University of Technology Lanna</p> <p><b>An ICT Design for Modern Education Technology and Applications</b>  <b>Stefan Svetsky<sup>1</sup></b>, <b>Oliver Moravcik<sup>1</sup></b>, <b>Dariusz Mikulowski<sup>2</sup></b>, <b>Mariya Shyshkina<sup>3</sup></b>          1: Slovak University of Technology in Bratislava - Faculty of Materials Science and Technology in Trnava; 2: Siedlce University of Natural Sciences and Humanities; 3: Institute of Information Technologies and Learning Tools - National Academy of Educational Science</p> <p><b>A Development of Instructional Model</b></p>	<p><b>PS 6F: Parallel Session : Information Computer Technology for Education</b>          Location: <b>Pinnacle VI</b>          Chair: <b>Soradech Krootjohn</b>, King Mongkut's University of Technology North Bangkok</p> <p><b>Expanding STEM to the Suggestion of STE-SAL-M; A Cross-Curricular Approach to Primary Education Science Teaching and Learning</b>  <b>Charilaos Tsihouridis<sup>1</sup></b>, <b>Marianthi Batsila<sup>2</sup></b>, <b>Dennis Vavougiou<sup>3</sup></b>          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><b>WebQuests: From An Inquiry-Oriented Instruction To The Connectivist Approach To Science Teaching For The 21st Century Learners</b>  <b>Charilaos Tsihouridis<sup>1</sup></b>, <b>Marianthi Batsila<sup>2</sup></b>, <b>Dennis Vavougiou<sup>1</sup></b>, <b>Anastasios Tsihouridis<sup>3</sup></b>          1: University of Thessaly, Department of Special Education, Volos, Greece; 2: Directorate of Primary and Secondary Education, Ministry of Education, Greece; 3: Democritus University of Thrace, Greece</p> <p><b>Virtual and Augmented Reality in Science Teaching</b></p>

	<p><b>Flipped Classroom And Serious Games As A Teaching Model In Experimental Sciences At The University</b> <u>Lynda Ouchaouka</u>, Kamal Omari, Mohammed Talbi, Mohamed Moussetad, Najat Elamrani, Lahoucine Labriji Hassan II University of Casablanca, Morocco</p> <hr/> <p><b>Analyses of Reliability and Validity of Internet Sources</b> <u>Istvan Simonics</u> Óbuda University, Hungary</p> <hr/> <p><b>Cybertraining: Activities And Time Scheduling. A Case Study</b> <u>Dorin Isoc, Teodora Surubar</u> GRAUR (Group for Reform and University Reform), Romania</p>	<p><b>developing countries: case of Catholic University of Mozambique</b> <u>Domingos Luis Rhongo</u>, Simone Mura, Bonifacio Piedade Catholic University Of Mozambique, Mozambique</p> <hr/> <p><b>The Method Of Formation Of The Students Of The Engineering University Competence To Innovative Professional Activity</b> <u>Olga Yurievna Khatsrinova, Mansur Floridovich Galikhanov, Julia Alekseevna Khatsrinova</u> Kazan National Reaserch Technological University, Russian Federation</p>	<p><b>Thailand</b> <u>Nutthapat Kaewrattanapat</u><sup>1</sup>, Panita Wannapiroon<sup>2</sup>, Pallop Piriyasurawong<sup>2</sup>, Prachyanun Nilsook<sup>2</sup> 1: Division of Information and Communication Technology for Education, King Mongkut's University of Bangkok, Thailand; 2: Faculty of Technical Education, King Mongkut's University of Technology North Bangkok, Thailand</p>	<p><b>Industrial Revolution</b> <u>Nailya Valeyeva</u><sup>1,2</sup>, Roman Kupriyanov<sup>1,2,3</sup>, Elvira Valeyeva<sup>1</sup>, <u>Natalia Kraysman</u><sup>1</sup> 1: Kazan National Research Technological University; 2: Kazan (Volga Region) Federal University; 3: Institute for Advanced Study, Moscow State Pedagogical University Moscow</p>	<p><b>Based on Work-Integrated Learning for New Generation of Graduates: Case Study of Fujikura Electronics (Thailand) Ltd.</b> <u>Kitchar Chaithanu, Pinit Nuangpirom, Kanokwan Ruangsiri</u> Rajamangala University of Technology Lanna Thailand, Chitralada Technology Institute</p> <hr/> <p><b>Education 4.0 - A New Systemic Paradigm of Teacher Education for Technicians–Engineers in the Czech Republic and Slovakia</b> <u>Pavel Andres</u><sup>1</sup>, Roman Hrmo<sup>2</sup> 1: Czech Technical University in Prague, Masaryk Institute of Advanced Studies, Czech Republic; 2: DTI University</p>	<p><b>and Learning</b> <u>Charilaos Tschouridis</u><sup>1</sup>, Dennis Vavougiou<sup>1</sup>, <u>Marianthi Batsila</u><sup>2</sup>, George Ioannidis<sup>3</sup> 1: University of Thessaly, Department of Special Education, Volos, Greece; 2: Directorate of Primary and Secondary Education, Ministry of Education, Greece; 3: University of Patras, Patras, Greece</p> <hr/> <p><b>Proposal Of a Model For Monitoring Transhundance Tracks Outside Network Coverage By Pastoralists' Mobiles In Mauritania</b> <u>Hassine Ali Abeidi, Cheikhane Seyed, Mamadou Tourad Diallo, Mohamedade Farouk Nanne</u> university of Nouakchott AI Asriyaa, Mauritania</p> <hr/> <p><b>Transnational Learning, Teaching, Training Activities for B-CAPP Project</b> <u>Rafik Absi</u><sup>1</sup>, Bisera Karanovic<sup>2</sup>, Gordana Nikolac<sup>3</sup>, Mattheos Kakaris<sup>4</sup>, Fabian Gomez<sup>5</sup>, Ikram El Abbassi<sup>6</sup>, Mousmen Darcherif<sup>7</sup>, Anna Stamouli<sup>8</sup> 1: ECAM-EPMI, France; 2: PAR University College, Croatia; 3: PAR University College, Croatia; 4: CIVIC, UK; 5: FyG Consultors, Spain; 6: ECAM-EPMI, France; 7: ECAM-EPMI, France; 8: CCS, Greece</p>
5:00pm	Closing Ceremony					

**Date: Saturday, 28/Sep/2019**

9:00am - 4:30pm	Social Program
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