

EDUCON 2019 9–11 April, 2019 - American University in Dubai, Dubai, UAE

← Final Versions	7:35:35 pm +04	👤 Sebastian Schreiter ▾	🔗 Logout
Overview > Conference Agenda			📄 🖨️ ⌵

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).

🔍 Hide Presentations	☰ List View	👤 Authors	▾ More...	<input type="text" value="Name, Title..."/>
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Session Overview

Date: Monday, 08/Apr/2019

- 8:00am - **Bus transportation to AUD Campus**
Location: [Movenpick Hotel Jumeirah Beach](#)
- 8:15am Complimentary bus transportation will be provided for workshop attendees staying in the JBR area, at or near the Rixos Premium Hotel JBR.

Meeting Point: Entrance of Movenpick Hotel Jumeirah Beach

Meeting Point Coordinates: [25°04'49.3"N 55°08'11.3"E](#)
- 8:30am - **WSS-1: Workshop: STEM 1**
Location: [AUD-C227](#)
- 10:00am Chair: [Haitham Solh](#), American University in Dubai

Engaging the Disengaged Student in Algebra, Geometry, and Statistics.
[Nelly Belinga](#)
Ministry of Education, UAE
- 8:30am - **WSA-1: Workshop: Assessment 1**
Location: [AUD-E421](#)
- 10:30am Chair: [Mason Marzbali](#), American University in Dubai
Chair: [Khaled Ali](#), American University in Dubai

Transformation of Engineering Education through Project/Design-Based Education
[Siva Chandrasekaran](#)
Swinburne University of Technology, Australia
- 9:00am - **WSC-1: Workshop: Computing 1**
Location: [AUD-E309](#)
- 12:00pm Chair: [Vinod Pangracious](#), American University in Dubai

Engaging Students via Physical Computing
[Martin Čápay](#), [Nika Klimová](#)
Constatntine the Philosopher University, Slovak Republic
- 10:00am - **Coffee Break**
Location: [AUD E-Building Rotunda](#)
- 11:00am
- 10:30am - **WSS-2: Workshop: STEM 2**
Location: [AUD-C227](#)
- 12:30pm Chair: [Micheline Bejjani](#), American University in Dubai

Creating a spark in K-12 classrooms with fun hands-on activities
[Anis Hague](#)
University of Calgary, Canada
- 11:00am - **WSA-2: Workshop: Assessment 2**
Location: [AUD-E421](#)
- 1:00pm Chair: [Salem Haggag](#), American University in Dubai

Supporting ABET Engineering Learning Outcomes with 7 Active Teaching and Learning Strategies
[Araceli Martinez Ortiz](#), [Anthony Samuel Torres](#)
Texas State University, United States of America
- 12:00pm - **Lunch**
Location: [AUD Campus](#)
- 2:30pm
- 1:30pm - **WSC-2: Workshop: Computing 2**
Location: [AUD-E301](#)
- 4:30pm Chair: [Salem Haggag](#), American University in Dubai

Finite Element Analysis for Structural, Motion and Topological Optimization Applications
[Erik Witwen Larson](#)
Altair Engineering, United States of America

2:00pm **WSS-3: Workshop: STEM 3**
 - Location: **AUD-E309**
4:00pm Chair: **Ramin Masoudi**, American University in Dubai

An Open and Improved VISIR System Through PILAR Federation for Electrical/Electronics Remote Experiments
Felix Garcia Loro, Manuel Castro
 UNED, Spain

2:30pm **WSA-3: Workshop: Assessment 3**
 - Location: **AUD-E421**
4:30pm Chair: **Ghaleb Ali Ibrahim**, American University in Dubai

Learning Analytics Impact on Teaching and Instructional Design in Higher Education
Mohammad Khalil¹, **Saif Rayyan²**
 1: University of Bergen, Norway; 2: American University of Ras Al Khaimah, UAE

4:30pm **Welcome Reception**
 - Location: **AUD Campus**

6:30pm

4:30pm **Registration**
 - Location: **Rixos Conference Center Foyer**

8:00pm Registration Desk Open from 15:00 to 20:00

Date: Tuesday, 09/Apr/2019

8:00am **Registration - All Day**
 - Location: **Rixos Conference Center Foyer**

5:00pm Registration Desk Open

8:30am **T1-A: Roundtable: Diversity and Inclusion**
 - Location: **Diamond Ballroom**

Chair: **Aruquia Peixoto**, CEFET/RJ
 Chair: **Micheline Bejjani**, American University in Dubai

PANELISTS

Boutheina Tlili, *RIT Dubai, UAE*

Carina González, *Universidad de La Laguna, Spain*

Hiba Abdel Jaber, *Lacasa Architects & Engineering Consultants, UAE*

Kemi Fasae, *DIGISTEM, Nigeria*

Lisa Keller, *University of Applied Sciences Würzburg-Schweinfurt, Germany*

How Can Computer Science Faculties Increase the Proportion of Women in Computer Science by Using Robots?

Lisa Keller, Isabel John
 University of Applied Sciences
 Würzburg-Schweinfurt, Germany

A Study on the Support for Women in Engineering Courses

Mayara Rodrigues de Carvalho Fernandes, **Kamilla da Silva Duarte**, **Viviane Rodrigues Madeira**, **Ana Luiza Lima de Souza**, **Herlander Alegre da Gama Afonso**, **Aruquia Peixoto**
 CEFET/RJ, Brazil

Panel: Women in Engineering - Honoring the Pioneers

Aruquia Peixoto¹, **Micheline Bejjani²**
 1: CEFET/RJ, Brazil; 2: American University in Dubai

T1-B: Virtual Presentations B
 Location: **Aquamarine**

Chair: **Siraj KM**, American University in Dubai

Designing a Multi-disciplinary Group Project for Computer Science and Engineering Students

Kheng Leong Tan, **Wooi Boon Goh**
 Nanyang Technological University, Singapore

How Electrical and Computer Engineering Departments are Preparing Undergraduate Students for the New Big Data, Machine Learning, and AI Paradigm: A Three-Model Overview

Samuel Olugbenga King
 Colorado State University, United States of America

Producing "T-shaped" Engineering Graduates: The Impact of Student Clubs as Learning Communities

Samuel Olugbenga King
 Colorado State University, United States of America

Barriers To The Integration Of Digital Technologies In The Classroom: A Case Study Of Teachers In Nigeria

Opeyemi Dele-Ajayi², **Victor Ayodele¹**, **Emma Anderson²**, **Oluwafemi Alufa¹**, **Itoro Emembolu²**, **Rebecca Strachan²**
 1: STEMRES Learning Initiative, Nigeria; 2: Northumbria University, United Kingdom

A Research-led Practice-driven Digital Forensic Curriculum to Train Next Generation of Cyber Firefighters

Syed Naqvi
 Birmingham City University, United Kingdom

Creative Entrepreneurship - a Proposal to 2030's Education

Jovani Castelan¹, **Gustavo De Lucca¹**, **Carlos Ferreira¹**, **Roderval Marcelino²**, **Luiz Salomão Ribas Gomez²**
 1: SATC; 2: UFSC

Teaching Emerging DDoS Attacks on Firewalls: A Case Study of the BlackNurse Attack

Zouheir Trabelsi, **Safaa Zeidan**, **Heba Saleous**

T1-C: Virtual Presentations C

Location: **Emerald**

Chair: **Vinod Pangracious**, American University in Dubai

Assessment of Oral Communication in Senior Engineering Students

Maria Calle¹, **José Daniel Soto¹**, **Luis Torres¹**, **Lucy Garcia¹**, **Adela de Castro¹**, **John Candelo²**

1: Universidad del Norte, Colombia; 2: Universidad Nacional de Colombia, Sede Medellin

Meaningful Learning Through Virtual Tutors: A Case Study

Garis Coronell, **Boris Goenaga**, **Maria Calle**
 Universidad del Norte, Colombia

A Process for Extracting Knowledge Base for Chatbots from Text Corpora

Aliane Loureiro Krassmann, **João Marcos Flach**, **Anita Raquel Cestari da Silva Grando**, **Liane Margarida Rockenbach Tarouco**, **Magda Bercht**
 Federal University of Rio Grande do Sul, Brazil

Analyzing the Gender Gap in Computing through the Thoughts of the Brazilian Community

Maria Elaine Santos, **Tamires Siqueira Rocha**, **Francisco Gabriel Oliveira**, **Vilson Lacerda Brasileiro**, **Cleyton Caetano Souza**
 IFPB, Brazil

Beyond 2030 Challenges of Engineering Education in an Information Systems Driven World - an Extraction based on Research Topics

Matthias Gottlieb¹, **Matthias Christoph Utesch^{1,2}**, **Markus Böhm¹**

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

The Effects of Multi-Sensory Augmented Reality on Students' Motivation in English Language Learning

Somaiyeh Vedadi^{1,2}, **Zaleha Abdullah²**, **Adrian David Cheok¹**
 1: Imagineering Institute, Malaysia; 2: University of Technology, Malaysia

A Basic Course Model on Information Security for High

	<p>UAE University, United Arab Emirates</p> <p>Exploring the Opportunities of Cisco Packet Tracer Tool For Hands-on Security Courses on Firewalls</p> <p>Zouheir Trabelsi, Heba Saleous UAE University, United Arab Emirates</p>		<p>School IT Curriculum</p> <p>Zouheir Trabelsi, Ezedin Barka UAE University, United Arab Emirates</p> <hr/> <p>"How to become an entrepreneur?" - Fostering entrepreneurial thinking of engineers</p> <p>Lana Plumanns, Daniela Janssen, Rene Vossen, Frank Hees, Ingrid Isenhardt IMA & IfU of RWTH Aachen University, Germany</p> <hr/> <p>Organizational and individual factors for training of the manufacturing workforce in digitalization</p> <p>Lana Plumanns, Daniela Janssen, Rene Vossen, Ingrid Isenhardt IMA & IfU, Germany</p>	
10:15am	Coffee Break			
-	Location: Rixos Conference Center Foyer			
10:45am	G-1: Plenary: Opening Ceremony			
-	Location: Diamond Ballroom			
12:15pm	Chair: Alaa K. Ashmawy , American University in Dubai			
DUBAI WELCOMES EDUCON 2019				
Tariq Al Hashimi, <i>Dubai Business Events and City Operations</i>				
HOST WELCOME AND KEYNOTE				
Imad Hoballah, <i>Provost, American University in Dubai</i>				
EDUCON STEERING COMMITTEE KEYNOTE				
Manuel Castro, <i>UNED, Spain</i>				
IEEE-UAE SECTION KEYNOTE				
Eesa Bastaki, <i>President, University of Dubai</i>				
IEEE REGION 8 KEYNOTE				
Adeel Sultan, <i>Vice-Chair Member Activities</i>				
EDUCON 2020 ANNOUNCEMENT				
Gustavo Alves, <i>Polytechnic of Porto, Portugal</i>				
Maria Teresa Restivo, <i>University of Porto, Portugal</i>				
VIDEO				
<i>Dubai: Engineering Meets Innovation</i>				
Keynote: Engineering Education through Student Engagement, or Engineering Engagement through Student Education?				
Sirin Tekinay Sabanci University, Turkey				
12:30pm	Lunch			
-	Location: Turquoise Restaurant - Ground Level			
1:30pm				
2:00pm	T2-A: SS: IoTedu'19 - Internet of Things Education	T2-B: A2 - Active Learning Methods	T2-C: A4 - Programming Education (1)	T2-F: A6 - Assessment (1)
-	Location: Diamond Ballroom	Location: Aquamarine	Location: Emerald	Location: Ruby
3:30pm	Chair: Manfred Leisenberg , University of Applied Sciences -FHM Bielefeld Chair: Dario Assante , Università Telematica Internazionale UNINETTUNO	Chair: Supaporn Erjongmanee , Kasetsart University Chair: Yara C. Almanza-Arjona , Tecnológico de Monterrey	Chair: Kay Berkling , Cooperative State University Chair: V Anantha Narayanan , Amrita School of Engineering, Amrita Vishwa Vidyapeetham	Chair: David Huang , The University of Western Australia Chair: Arthur James Swart , Central University of Technology
IoT – a solution for Educational Management challenges		Alternative Approach to Teach Probability and Statistics for College Engineering Students		Detailed Comparison of Instructor and Student-based Assessment in Project Based Learning
Hamid Doost Mohammadian University of Applied Sciences (FHM), Germany		Supaporn Erjongmanee Kasetsart University, Thailand		Agung W. Setiawan Biomedical Engineering, School of Electrical Engineering and Informatics, ITB, Indonesia
Implementation of an Arduino Remote Laboratory with Raspberry Pi		Research-based approach to undergraduate Chemical Engineering Education		A Knowledge Based System for Automated Assessment of Short Structured questions
Atilano Fernández-Pacheco, Sergio Martin Gutierrez, Manuel Castro UNED - Spanish University for Distance Education, Spain		Yara C. Almanza-Arjona¹, Berenice Vergara-Porras¹, Beatriz E. García-Rivera², Salvador E. Venegas-Andraca^{1,3} 1: Escuela de Ingeniería y Ciencias, Tecnológico de Monterrey; 2: Instituto de Ciencias Aplicadas y Tecnología, Universidad Nacional Autónoma de México; 3: Writing Lab, TecLabs, Vicerrectoría de Investigación y Transferencia de Tecnología,		Teshna Luchoomun, Muhammad Yusuf Chumroo, Vidasha Ramnarain-Seetohul University Of Mauritius, Mauritius
Internet of Energy – a solution for Energy Management challenges		To be or not to be, that is the recursive question.		A case-study of automated feedback assessment
Hamid Doost Mohammadian University of Applied Sciences (FHM), Germany		Francisco Fernández de Vega University of Extremadura, Spain		Omid Mirmotahari¹, Yngvar Berg¹, Stein Gjessing¹, Ester Fremstad²,

An educational IoT-based indoor environment monitoring system

Dario Assante, Claudio Fornaro
Università Telematica Internazionale UNINETTUNO, Italy

Guidelines for Teaching an Introductory Course on the Internet of Things

Mounib Khanafer, Mohammed El-Abd
American University of Kuwait, Kuwait

M2M learning environment for electric applications

Dario Assante, Roberto Crucco
Università Telematica Internazionale UNINETTUNO, Italy

T2-G: A3 - Entrepreneurship

Location: **Amber**
Chair: **Maria del Mar Martinez Diaz**, KU Leuven/ EIT InnoEnergy
Chair: **Svein Hagen**, University of South-Eastern Norway

Entrepreneurship Education for Engineering Students -- A Survey of Former Students' Self-Employment and Market Attraction

Harald Hasleberg¹, Kari H. Voldsund², Svein Thore Hagen¹
1: University of South-Eastern Norway, Norway; 2: Western Norway University of Applied Sciences, Norway

The Entrepreneurship Journey: Fostering Engineering Students' Entrepreneurship by Startup Creation

Mar Martinez¹, Xavier Crusat²
1: KU Leuven, Belgium; 2: Innoenergy, The Netherlands

The effect of computer self-efficacy on entrepreneurial aspirations of students

Ioannis Sitaridis, Fotis Kitsios
University of Macedonia, Greece

Coopetition: Industrial interplay to foster innovative entrepreneurship in energy engineering education

Scarlett Nadir Tokunaga Contreras¹, Mar Martinez Diaz¹, Xavier Crusat²
1: KU Leuven, Belgium; 2: InnoEnergy

Tecnologico de Monterrey, Ave. Eugenio Garza Sada 2501, Monterrey 64849, NL, Mexico.

Narrative Based Motivation For Engineering Students

Henrietta Steenkamp, Andre Leon Nel
University of Johannesburg, South Africa

A Systems Engineering Based Effective Approach for Executing Senior Projects for Engineering Students

Hossny Elshierief
University of California Riverside, United States of America

The International Chair - Concept and Benefits of a New Interdisciplinary Faculty Position

Karl Kirschner, Juergen Bode, Dirk Reith
Bonn-Rhein-Sieg University of Applied Sciences, Germany

Learnt: A Serious Game to Support Study Methods in Engineering Education

Carlos Vaz de Carvalho, Pedro Bessa, Ricardo Costa, Ana Barata, Alexandra Costa
Instituto Superior de Engenharia do Porto, Portugal

T2-H: A5 - MOOCs

Location: **Pearl**
Chair: **Rafael Jiménez Castañeda**, Cadiz University
Chair: **Kevin Anthony Jones**, Nanyang Technological University

MOOCs in Secondary Education - Experiments and Observations from German Classrooms

Thomas Staubitz, Ralf Teusner, Christoph Meinel
Hasso Plattner Institute (HPI), Germany

MOOC Lab, a Massive Online Laboratory with Real Time access

Manuel E. Macias, Elvira Guadalupe Rincón
Tecnológico de Monterrey, Mexico

Sustaining or disruptive: Future of MOOC innovation in tertiary education still up for grabs

Kevin Anthony Jones¹, Ravi Sharma²
1: Nanyang Technological University, Singapore; 2: University of Canterbury, New Zealand

MoocRec: Learning Styles-Oriented MOOCs Recommender and Search Engine

Saugat Aryal, Nuwan Kodagoda, Kushnara Suriyawansa
Sri Lanka Institute of Information Technology, Sri Lanka

Developing Health Technology Innovators: A Collaborative Learning Approach

Marieke Agterbos⁴, Frank Aldershoff⁴, Oisín Cawley², Norbert Jung⁵, Joseph Kehoe², Eric Klok⁴, Andreas Künz³, Jan Harald Nilsen⁶, Patrick Jost³, Irene Rothe⁵, Grethe Sandstrak¹, Reidun Skar¹, Karl-Heinz Weidman³
1: Norwegian University of Science and Technology; 2: Institute of Technology Carlow; 3: Vorarlberg University of Applied Sciences; 4: Amsterdam University of Applied Sciences; 5: Hochschule Bonn-Rhein-Sieg; 6: 3D Motion Technologies

Standardization guide to develop collaborative Massive Open Courses for engineering teaching in DIEGO project

Rafael Jiménez Castañeda¹, Manuel

Collaborative Learning with COZMO to Teach Programming in Scratch and Python

Andreas Humpe, Lars Brehm, Holger Günzel, Olav Hinz, Henrike Martius
University of Applied Sciences Munich, Germany

Teaching Java and Object Oriented Programming by Using Children Board Games

Julia Gabaruk, Doina Logofatu, Damian Großkreuz, Christina Andersson
Frankfurt University of Applied Sciences, Germany

Koding4Kinder: Teaching Computational Thinking and Programming to School Children

Nada Sharaf¹, Ghada Ahmed¹, Ahmed Adel¹, Slim Abdennadher¹, Kay Berking²

1: The German University in Cairo, Egypt; 2: DHBW Karlsruhe

T2-D: Collaborative & Demo Space

Location: **Jade**
Available for reservation at the Registration Desk

Crina Damsa²

1: Dept. of Informatics, University of Oslo, Norway; 2: Dept. of Education, University of Oslo, Norway

Correlating Learning Outcomes to the Graduate Attributes of the International Engineering Alliance in a Problem-Based Learning Module

Arthur James Swart¹, Marietjie Havenga²

1: Central University of Technology, South Africa; 2: North West University, South Africa

Optimization of Quality Assessment and Evaluation Approach for Engineering Program Accreditation

Sidi Mohamed Ahmed Ghaly
AL IMAM University, Saudi Arabia

Communication Technologies Course with Intensive Mode Teaching: a Case Study

David Huang, Lu Jin
The University of Western Australia, Australia

	<p>Castro Gil², German Jiménez Ferrer¹, Daniella Suger Bedorin³, Lourdes Socarras Mérida³, Gabriel Quiroga Salomon⁴, Cristian Guzman Quaharre³ 1: Cadiz University, Spain; 2: UNED, Spain; 3: Galileo University, Guatemala; 4: National University of Chilecito, Argentina</p>		
3:30pm	Coffee Break		
-	Location: Rixos Conference Center Foyer		
4:00pm			
4:00pm	T3-A: Workshop: Educational Robotics	T3-B: A1 - Lab and Simulation Tools (1)	T3-C: A6 - Data Analytics
-	Location: Diamond Ballroom	Location: Aquamarine	Location: Emerald
5:30pm	Chair: Aruquia Peixoto , CEFET/RJ Chair: Viviane Rodrigues Madeira , CEFET/RJ	Chair: Martin Jaeger , Australian College of Kuwait Chair: Robin T. Bye , NTNU - Norwegian University of Science and Technology	Chair: Saif Rayyan , American University of Ras Al Khaimah Chair: Tobias Rohloff , Hasso Plattner Institute
	Encouraging Diversity and Inclusion through Educational Robotics and Programming Tools Pedro Plaza¹, Aruquia Peixoto², Elio Sancristobal¹, German Carro¹, Manuel Castro¹, Mónica Muñoz¹, García-Loro Felix¹ 1: UNED, Spain; 2: CEFET/RJ, Brazil	HeatShield: a Low-Cost Didactic Device for Control Education Simulating 3D Printer Heater Blocks Gergely Takács , Martin Gulan, Juraj Bavlna, Richard Köpflinger, Michal Kováč, Erik Mikuláš, Sohaibullah Zarghoon, Richard Salini Slovak University of Technology in Bratislava, Bratislava, Slovak Republic	Utilizing Web Analytics in the Context of Learning Analytics for Large-Scale Online Learning Tobias Rohloff , Sören Oldag, Jan Renz, Christoph Meinel Hasso Plattner Institute, Germany
		From heterogeneous activities to unified analytics dashboards Iván Martínez-Ortiz , Dan Cristian Rotaru, Iván J. Pérez-Colado, Manuel Freire, Baltasar Fernández-Manjón Universidad Complutense de Madrid, Spain	Achievement, Engagement and Student Satisfaction in a Synchronous Online Course Elena Olvera , Claudia López, Juan Olivares ITESM, Mexico
		On the Development of Laboratory Projects in Modern Engineering Education Robin T. Bye , Ottar L Osen NTNU - Norwegian University of Science and Technology, Norway	Dissemination of Knowledge and Sharing Experiences in Emerging Issues through a Remote Summer School Ruchira Rohanajith Abeyweera¹ , Gwenaëlle Guillerme ² , Nihal Srikantha Senanayake ¹ , Thanushka Sandaruwan Peiris ³ , Jeevan Jayasuriya ⁴ , Torsten Henry Fransson ⁵ 1: The Open University of Sri Lanka (OUSL), Sri Lanka; 2: T.I.M.E. Association, Paris, France; 3: Ceylon Electricity Board (CEB), Norochchola, Sri Lanka; 4: EIT InnoEnergy, Stockholm, Sweden; 5: EIT InnoEnergy, Eindhoven, Netherlands
		The Impact of Laboratory Courses in Technical Study Programs – Knowledge Earning or Not Much Learning? Damian Großkreutz , Doina Logofatu, Anna Schott Frankfurt University of Applied Sciences, Germany	Market Basket Analysis of Student Attendance Records Mohammed Hussain¹ , Abdullah Hussein ² 1: Zayed University, United Arab Emirates; 2: University of Sharjah, United Arab Emirates
		Deeper theoretical understanding by means of practical experience in electric and electronic circuits for freshmen Ingo Gross , Dirk Reith, Martina Grein, Iris Gross Bonn-Rhein-Sieg University of Applied Sciences, Germany	Investigating the Data Science Skill Gap: An Empirical Analysis Patrick Mikalef , John Krogstie Norwegian University of Science and Technology
		Process Learning Simulator: Trial and Error, Thinking and Learning Effectiveness Martin Jaeger¹ , Desmond Adair ² 1: Australian College of Kuwait, Kuwait; 2: University of Tasmania, Australia	Towards a new adaptive learning scripting model for LMS Jeanne Pia Malick Sene¹ , Ndeye Massata Ndiaye ² , Gaoussou Camara ¹ , Claude Lishou³ 1: Université Alioune DIOP de BAMBEY(UADB), Senegal; 2: Université Virtuelle du Senegal(UVS), Senegal; 3: Université Cheikh Anta DIOP de Dakar, Senegal
			Real-time distance courses to improve satisfaction and competence - A case study on the performance of students observing their grades. Martha Elena Núñez¹ , Juan-Carlos Rojas² , Miguel X Rodriguez-Paz ³ 1: Tecnológico de Monterrey, Escuela de Arquitectura, Arte y Diseño, Puebla, Mexico; 2: Tecnológico de Monterrey, Escuela de Arquitectura, Arte y Diseño, Monterrey, Mexico; 3: Tecnológico de Monterrey, Escuela de Ingeniería y Ciencias, Puebla, Mexico
			Benefits and challenges of distributed student activities in online education settings: cross-university collaborations on a pan-European level Galena Pisoni¹ , Maurizio Marchese ¹ , Frederic Renouard ² 1: University of Trento, Italy; 2: EIT Digital and University of Rennes, France
			What Kind of Teacher Achieves Student Engagement in a Synchronous Online Model? Linda Medina Herrera , José Carlos Miranda Valenzuela Tecnológico de Monterrey, México
			The Use of Technology to Support Learning at Western Region Institutes, UAE Ghassan Frache , Gratchia Mkrttchian, Kostas Stavropoulos, George Tombras Abu Dhabi Vocational Education and Training, United Arab Emirates

T3-G: A3 - Employability

Location: **Amber**
 Chair: **Christian Madritsch**, Carinthia University of Applied Sciences
 Chair: **Dario Assante**, Università Telematica Internazionale UNINETTUNO

Innovative Elements for a Balanced and Successful Study and Work Program in Part-time Engineering Education

Wolfgang Werth, **Christian Madritsch**
 Carinthia University of Applied Sciences, Austria

Analyzing Cybersecurity Job Market Needs in Morocco by Mining Job Ads

Ibrahim Rahhal^{1,2}, **Ibtissam Makdoun**^{1,2}, **Ghita Mezzour**¹, **Imane Khaouja**^{1,2}, **Kathleen Carley**³, **Ismail Kassou**²

1: International University of Rabat, Morocco; 2: Université Mohammed V Rabat, Morocco; 3: Institute for Software Research Carnegie Mellon University Pittsburgh, PA

Student engagement in cross-domain innovation development and impact it on learning outcomes and career development in Electrical Engineering

Nadezda Kunicina¹, **Rasa Bruzgiene**², **Anatolijs Zabasta**¹, **Antons Patlins**¹, **Neringa Dubauskiene**², **Leonids Ribickis**¹

1: Riga Technical University, Latvia; 2: Kaunas University of Technology

Smart education in the context of Industry 4.0

Dario Assante, **Alessandro Caforio**, **Marta Flamini**, **Elpidio Romano**
 Università Telematica Internazionale UNINETTUNO, Italy

Parents' Views on Higher Education Abroad – a Focus Group Study for Launching a New Engineering University in Eastern Europe

Oksana Zhirosh¹, **Tanya Stanko**², **Elena Chernyshkova**³

1: Innopolis University; 2: Kazan National Research Technical University named after A.N.Tupolev - KAI; 3: University of Navarra - Spain, Ural State University - Russia

T3-H: SS: IDEE'19 - Inclusion and Diversity in Engineering Education (1)

Location: **Pearl**
 Chair: **Carina González**, Universidad de La Laguna
 Chair: **Ruth Schorr**, Frankfurt University of Applied Sciences

On Teaching Intercultural Competencies Using Ethnography and Cultural Dimension Theory

Ruth Schorr, **Lotte Rose**, **Martina Voigt**
 Frankfurt University of Applied Sciences, Germany

Influence of Student Diversity on Educational Trajectories in Engineering High-Failure Rate Courses that Lead to Late Dropout

Juan Pablo Salazar-Fernandez^{1,2}, **Marcos Sepúlveda**¹, **Jorge Muñoz-Gama**¹

1: Universidad Austral de Chile, Chile; 2: Pontificia Universidad Católica de Chile, Chile

Actions to promote diversity in engineering studies: a case study in a Computer Science Degree

Alicia Garcia-Holgado¹, **Andrea Vázquez-Ingelmo**¹, **Sonia Verdugo-Castro**¹, **Carina González**², **Mª Cruz Sánchez Gómez**¹, **Francisco J. García-Peñalvo**¹

1: GRIAL Research Group, University of Salamanca, Spain; 2: University of La Laguna, Spain

Diversity and inclusion: buzzword or real value?

Letizia Clementi, **Riccardo Cavadini**, **Fabiola Casasopra**, **Marco Rabozzi**, **Sara Notargiacomo**, **Marco Domenico Santambrogio**
 Politecnico di Milano, Italy

A Low-Cost Autonomous Attention Assessment System for Robot Intervention with Autistic Children

Fady S. Alnajjar¹, **Abdulrahman Renawi**², **Massimiliano Cappuccio**², **Omar Mubain**³

1: College of Information Technology, United Arab Emirates University; 2: Department of Philosophy, United Arab Emirates University; 3: Human-Centred Computing & Human-Computer Interaction, Western Sydney University

Work in Progress: Curricular STEMification, In-Service Teacher Education, and Course Development in a Semi-Periphery Country: An American and Chinese Collaboration

Douglas Lecorchick¹, **Bryanne Peterson**²

1: North Carolina State University; 2: Virginia Polytechnic Institute and State University

T3-D: Collaborative & Demo Space

Location: **Jade**
 Available for reservation at the Registration Desk

Date: Wednesday, 10/Apr/2019

8:00am **Registration - All Day**
 Location: **Rixos Conference Center Foyer**
5:00pm Registration Desk Open

8:30am **W1-A: A3 - STEM & K-12 Education (1)**
10:15am Location: **Diamond Ballroom**
 Chair: **Martin Cápay**, Constantine the Philosopher University
 Chair: **Sebastian Gross**, The MathWorks GmbH

Inquiry-based learning and trialogical knowledge-creation approach in Smart Schoolhouse

W1-B: A2 - Student Engagement (1)
 Location: **Aquamarine**
 Chair: **Conrado Rosales Torres**, Instituto Tecnológico y de Estudios Superiores de Monterrey
 Chair: **Jorge Membrillo-Hernandez**, Instituto Tecnológico y de Estudios Superiores de Monterrey

Engaging Part-Time Students in

W1-C: SS: OER'19 - Open Education Resources
 Location: **Emerald**
 Chair: **Riadh Habash**, University of Ottawa
 Chair: **Andrea Schwandt**, Bonn-Rhein-Sieg University of Applied Sciences

New Open Educational Resources framed in the Microelectronics Cloud Alliances Project:

W1-F: A4 - Programming Education (2)
 Location: **Ruby**
 Chair: **Ulrich Schäfer**, Ostbayerische Technische Hochschule Amberg-Weiden
 Chair: **Vianney Lara**, Tecnológico de Monterrey

Using Brain Computer Interaction in Programming

supported by IoT devices kits**Marge Kusmin**

Tallinn University, Estonia

Engage Your Students via Physical Computing!**Martin Čápay, Nika Klimová**

Constatntine the Philosopher University, Slovak Republic

K-12 school/industry partnership for modelling and simulation**Sebastian Gross¹, Eomji Park¹, Annette Pickl², Tim Storck^{2,3}**

1: The MathWorks GmbH, Ismaning, Germany; 2: Rupprecht-Gymnasium München, Munich, Germany; 3: Ludwig-Maximilian-Universität München, Munich, Germany

Teaching Mobile Application Development in 20 Hours for High School Girls: A Web-Based Approach**Hend Al-Khalifa, Hadil Faisal, Ghadah Al-Gumaei**

King Saud University, Saudi Arabia

STEM and Educational Robotics Using Scratch**Pedro Plaza, Elio Sancristobal, German Carro, Manuel Blazquez, Felix Garcia-Loro, Mónica Muñoz, María Jose Albert, Belen Moriñigo, Manuel Castro**

UNED, Spain

Impact of Online Education in Jordan: Results from the MUREE Project**Llanos Tobarra¹, Rafael Pastor¹, Antonio Robles-Gomez¹, Jesus Cano¹, Bashar Hammad², Abdullah Al-Zoubi³, Roberto Hernandez¹, Manuel Castro⁴**

1: Department of Communications and Control, National Distance University (UNED), Madrid, Spain; 2: Mechanical and Maintenance Engineering, German Jordanian University, Jordan; 3: Communication Engineering Department, Princess Sumaya University Technology, Amman, Jordan; 4: Electrical and Computer Engineering National Distance University (UNED), Madrid, Spain

W1-G: A5 - Technology-Assisted LearningLocation: **Amber**Chair: **Miguel X. Rodriguez-Paz**, Tecnológico de MonterreyChair: **Tobias Rohloff**, Hasso Plattner Institute**From MOOCs to Micro Learning Activities****Max Bothe**, Jan Renz, Tobias Rohloff, Christoph Meinel
Hasso Plattner Institute, Germany**Use of an offline video repository as a tool to improve students' performance in Engineering courses versus real-time long distance courses****Software Security by Inductive Learning****Egon Teiniker¹, Gerhard Seuchter¹, William Farrelly²**

1: FH JOANNEUM, Austria; 2: Letterkenny Institute of Technology, Ireland

Discovering Students' Engagement Behaviors in Confidence-based Assessment**Rabia Magsood¹, Paolo Ceravolo¹, Sebastián Ventura²**

1: University of Milan, Italy; 2: University of Cordoba, Spain

Including Active Learning in an Online Database Management Course for Industrial Engineering Students**Christina Andersson¹, Gerald Kroisandt², Doina Logofatu¹**

1: Frankfurt University of Applied Sciences, Germany; 2: Htw Saar, Germany

The i-Semester Experience: Undergraduate Challenge-Based Learning within the Automotive Industry**Roberto J. Mora-Salinas, Carlos R. Gijón R., Conrado Rosales Torres, D. H. Castillo, Miguel X. Rodríguez-Paz**

Tecnológico de Monterrey, Escuela de Ingeniería y Ciencias, Puebla, México

Student Engagement Outside the Classroom: Analysis of a Challenge-Based Learning Strategy in Biotechnology Engineering**Jorge Membrillo-Hernandez^{1,2}, Rodrigo B. Muñoz-Soto¹, Álvaro C. Rodríguez-Sánchez¹, Josefina Castillo-Reina¹, Patricia Vázquez-Villegas^{2,3}, José A. Díaz-Quiróñez⁴, Alicia Ramírez-Medrano¹**

1: Departamento de Bioingeniería, Escuela de Ingeniería y Ciencias, Instituto Tecnológico de Estudios Superiores de Monterrey, Región Ciudad de México.; 2: Writing Lab, TeCLabs, Vicerrectoría de Investigación y Transferencia de Tecnología, Tecnológico de Monterrey, Ave. Eugenio Garza Sada 2501, Monterrey 64849, NL, Mexico; 3: Escuela de Ingeniería y Ciencias, Instituto Tecnológico de Estudios Superiores de Monterrey, Campus Monterrey, México; 4: Instituto de Diagnóstico y Referencia Epidemiológicos, Av. Francisco de P. Miranda 177, Lomas de Plateros, 01480 Ciudad de México, México

Training Reading and Writing through Text-based Games; Step 1: Adapting to Gamer Type.**Nikhil Sharma², Kay Berkling¹**

1: Cooperative State University, Germany; 2: Indian Institute of Technology Tirupati

W1-H: A3 - Ethics and GlobalizationLocation: **Pearl**Chair: **Khalid Said Rabayah**, Arab American universityChair: **Sarma Cakula**, Vidzeme University of Applied Sciences**Faculty Perception of Engineering Student Cheating and Effective Measures to Curb It****Sami W. Tabsh¹, Hany A. El-Kadi², Akmal S. Abdelfatah¹**

1: American University of Sharjah, United Arab Emirates; 2: Zayed University

Technology-Based Communication in the Business Company**Strengthen the collaboration between the Labor Market and Higher Education****Rosario Gil Ortego¹, Manuel Castro Gil¹, Francisco Javier Leal Juárez², Rafael Jiménez Castañeda³, Slavka Tzanova⁴**

1: Spanish University for Distance Education (UNED), Spain; 2: INOMA Renovables SL, Spain; 3: Cadiz University, Spain; 4: Technical University of Sofia (TUS), Bulgaria

Information retrieval model for Open Educational Resources**Manuel Sucunuta¹, Guido Riofrio², Edmundo Tovar³**

1: Universidad Técnica Particular de Loja; 2: Universidad Técnica Particular de Loja; 3: Politecnica de Madrid

Make it Open - Improving Usability and Availability of an FPGA Remote Lab**Andrea Schwandt, Marco Winkler**

Bonn-Rhein-Sieg University of Applied Sciences, Germany

A proposal of Quality Assessment of OER based on emergent technology**Audrey Romero-Pelaez, Veronica Segarra-Faggioni, Nelson Piedra, Edmundo Tovar**

Universidad Tecnica Particular de Loja, Loja, Ecuador

g9toengineering: A Virtual Community of Practice in Knowledge Creation**Riadh Habash**

University of Ottawa, Canada

Problem Solving**Ana Rita Teixeira¹, Joana Eloy², António José Mendes³, Anabela Gomes⁴**

1: Coimbra Polytechnic - ESEC & Institute of Electronics and Informatics Engineering of Aveiro - University of Aveiro; 2: Coimbra Polytechnic - ISEC; 3: Centre for Informatics and Systems - University of Coimbra, Portugal; 4: Coimbra Polytechnic - ISEC & Centre for Informatics and Systems - University of Coimbra, Portugal

Teaching Modern C++ with Flipped Classroom and Enjoyable IoT Hardware**Ulrich Schäfer**

Ostbayerische Technische Hochschule Amberg-Weiden, Germany

PasOnto: ontology for learning pascal programming language**Baboucar Diatta¹, Adrien Basse¹, Samuel Ouya²**

1: University Alioune Diop of Bambey, Senegal, Senegal; 2: Department Computer Engineering University Cheikh Anta Diop Dakar Sénégal

Pyweekend: Not Your Typical Hackathon**Rafael Ignacio Bonilla, Estefania Lozano, Roger Granda**

ESPOL, Ecuador

Introductory Programming Using Non-Textual Modalities - An Empirical Study on Skill Assessment Using Rainfall Problem**Vibha Rao, Thangavelu S., Shymala C. K., Shunmuga Velayutham C.**

Amrita Vishwa Vidyapeetham, India

First-year Engineering Students Engagement by Hands-on Experience with Star Wars Robotics**Yianney Lara-Prieto, Jacob de la Cruz-Hinojosa, Eduardo J. Arrambide-Leal, Francisco Palomera-Palacios, M. Ileana Ruiz-Cantisani, Juan Manuel Campos-Sandoval**

Tecnológico de Monterrey, Mexico

W1-D: GEDC MeetingLocation: **Jade**Chair: **Şirin Tekinay**, Sabancı UniversityChair: **Khalid Hussain**, University of Wollongong in Dubai

Booked: UAE-EDC Meeting with GEDC Chair Elect

Miguel X. Rodriguez-Paz¹, Jorge A. Gonzalez-Mendivil¹, Juan-Carlos Rojas², Martha Elena Núñez³

1: Tecnológico de Monterrey, Escuela de Ingeniería y Ciencias, Puebla, Mexico; 2: Tecnológico de Monterrey, Escuela de Arquitectura, Arte y Diseño, Monterrey, Mexico; 3: Tecnológico de Monterrey, Escuela de Arquitectura, Arte y Diseño, Puebla, Mexico

GOAL: Generating Learning Opportunities in Logistics

Ernesto Armando Pacheco-Velázquez, Marlene Aguilar-Abalo
Tecnológico de Monterrey Campus Ciudad de México, Mexico

Critical Incidents for Technology Enhanced Learning in Vocational Education and Training

Adrian Wilke, Johannes Magenheimer
Paderborn University, Germany

An Effective Framework for Enhancing Student Engagement and Performance in Final Year Projects

Usman Naeem¹, Syed Islam², Arish Siddiqui³
1: Queen Mary University of London, United Kingdom; 2: University College London; 3: University of East London

Understanding the Foundations of Electromagnetic Field Theory with Computer Software

N. Fusun Oyman Serteller, Gulden Kari
Marmara University, Turkey

10:15am
-

Coffee Break
Location: [Rixos Conference Center Foyer](#)

10:45am

10:45am
-

G-2: Plenary: Keynote Lectures
Location: [Diamond Ballroom](#)

12:15pm

Chair: **Michael Auer**, CTI
Chair: **Henrique Santos**, University of Minho

Keynote: Education in the Digital Age – Education for the Digital Age

Helmut Krcmar
Technische Universität München, Germany

Keynote: IFEEES and the GEDC Global Attributes

Hans-Jürgen Hoyer
IFEEES-GEDC, United States of America

12:30pm
-

Lunch
Location: [Turquoise Restaurant - Ground Level](#)

1:30pm
-

W2-A: A1 - Augmented Reality and Virtual Environments

Location: [Diamond Ballroom](#)
Chair: **Carlos Delgado Kloos**, Universidad Carlos III de Madrid
Chair: **Danielle Stephanie Ceulemans**, Delft University of Technology

3:00pm

360 degree virtual tour for educational purposes. An exploratory study on the design elements

Danielle Stephanie Ceulemans^{1,2}, Renate G. Klaassen^{1,2}
1: Delft University of Technology, Netherlands, The; 2: 4TU.Centre for Engineering Education

Virtual Reality Models for Promoting Learner Engagement in Construction Studies

Don Amila Sajeevan Samarasinghe, Suhaimi Abd-Latif, Nilufa Baghaei
Otago Polytechnic Auckland International Campus, New Zealand

FireEscape: a Gamified Coordinative Approach to Multiplayer Fire-Safety Training

Ioana Paula Stroe, Aurelia Ciupe, Serban Meza, Bogdan Orza
Technical University of Cluj-Napoca, Romania

Madara Pauga, Sarma Cakula
Vidzeme University of Applied Sciences, Latvia

Multicultural experiences in Global Projects

Pedro Orta, Horacio Ahuett-Garza, Pedro Daniel Urbina-Coronado, Ricardo Ramirez-Mendoza
Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico

Transdisciplinary Learning Community: A model to enhance collaboration between higher education institutions and society

Jorge Lozoya-Santos, Brenda Guajardo-Leal, Adriana Vargas-Martinez, Indira Molina-Gaytán, Rubén Morales-Menéndez, Ricardo Ramirez-Mendoza, Armando Román-Flores
Tecnológico de Monterrey, Mexico

The Impact of Culture on Acceptance of E-Learning: A Palestinian Case Study Using Structural Equation Model

Khalid Said Rabayah
Arab American university, Palestinian Territories

W2-B: SS: SEE'19 - Smart Engineering Education (1)

W2-B: SS: SEE'19 - Smart Engineering Education (1)

Location: [Aquamarine](#)
Chair: **Jeffrey P. Bakken**, Bradley University
Chair: **Vladimir Uskov**, Bradley University

Innovative InterLabs System for Smart Learning Analytics in Engineering Education

Vladimir Uskov, Jeffrey Bakken, Ashok Shah, Nicholas Hancher, Cade McPartlin, Kaustubh Gayke
Bradley University, United States of America

Engineering Solutions on Multimodal Profiling Tool for Digital Jobs Analysis and Matching of Requirements Competences Framework

Danguole Rutkauskiene, Daina Gudoniene
Kaunas University of Technology, Lithuania

Automation, Technology Transfer and Managerial Practices for the Organizational Growth of SMEs. An Advanced Smart Curriculum for the Competitiveness

Nunzio Casalino¹, Barbara Borin¹,

W2-C: A3 - STEM & K-12 Education (2)

Location: [Emerald](#)
Chair: **Ghassan Frache**, Abu Dhabi Vocational Education and Training
Chair: **Alexander Gurov**, Bauman Moscow State Technical University

Promoting and Implementing Digital STEM Education at Secondary Schools in Africa

Denis Gillet¹, Bosun Tijani², Senam Beheton³, Juan Carlos Farah¹, Diana Dikke⁶, Aurelle Noutahi³, Rosa Doran⁶, Nuno R. C. Gomes⁶, Sam Rich⁴, Ton de Jong⁷, Célia Gavaud⁸
1: EPFL, Switzerland; 2: CcHub; 3: EtriLabs; 4: eLimu; 5: IMC; 6: NUCLIO; 7: University of Twente; 8: MitoTech

Teachers' Perceptions about using Serious Games in Formal Education in Jordan: Possibilities and Limitations

Mohammad Assaf¹, Jos van Hillegersberg¹, Ton Spij¹, Nariman Arikat²

1: University of Twente, Netherlands; 2: Bunat Alghad Academy, Jordan

Research and Categorization of Conceptual Difficulties in

W2-F: A5 - Online Education

Location: [Ruby](#)
Chair: **Xiaolong Xu**, Nanjing University of Posts and Telecommunications
Chair: **Abdallah Al-Zoubi**, Princess Sumaya University for Technology

Cyber-Training: Relations, Connections, Synergistic and Negative Reactions

Dorin Isoc, Teodora Surubaru
GRAUR - Group for Reform and University Alternative, Romania, Cluj-Napoca

The e-LIVES project: e-Engineering where and when students need

Manuel Gericota¹, Guillaume Andrieu², Claire Dalmay², Paulo Ferreira¹, Andre Fidalgo¹
1: School of Engineering - Polytechnic of Porto, Portugal; 2: University of Limoges, France

Megrez: MOOC-oriented EEG-based Arousal of Brain Detection and Adjustment Scheme

Haoyan Xu, Xiaolong Xu
Nanjing University of Posts and Telecommunications, China, People's

<p>Impact of visuospatial abilities on perceived enjoyment of students toward an AR-simulation system in physics course</p> <p>María Blanca Ibáñez¹, Angela Di Serio², Diego Villarán¹, Carlos Delgado-Kloos¹</p> <p>1: Universidad Carlos III de Madrid; 2: Universidad Simón Bolívar</p>	<p>Giuliana Pizzolo², Simone Cavallini²</p> <p>1: LUISS Business School and Marconi University; 2: LUISS Business School</p> <p>Crowdsourcing-Based Learning: the Effective Smart Pedagogy for STEM Education</p> <p>Vladimir Uskov, Jeffrey Bakken, Lavanya Aluri</p> <p>Bradley University, United States of America</p>	<p>Electricity's Concepts and Basic Laws</p> <p>Ghassan Frache¹, Konstantinos Stavropoulos², Gerasimos G. Vavasis³, Efstratios C. Kapotis³, Gratchia Mkrttchian², Hector E. Nistazakis³, George S. Tombras³</p> <p>1: Abu Dhabi Vocational Education & Training Institute, United Arab Emirates; 2: Higher Colleges of Technology, Baynounah Educational Complex, Abu Dhabi, UAE; 3: Department of Physics, National and Kapodistrian University of Athens, Greece</p>	<p>Republic of</p> <p>Design and implementation of an online remediation course</p> <p>Ndeye Massata Ndiaye</p> <p>Virtual university of Senegal, Senegal</p>
<p>Automated Assessment in Learning and Teaching Programming Languages using Virtual Learning Environment</p> <p>Ján Skalka, Martin Dřík, Juraj Obonya</p> <p>Constantine the Philosopher University, Slovak Republic</p>	<p>Smart Technologies. Application for International Cooperation in Taxation.</p> <p>Natalya Vladimirovna Serdyukova¹, Ivan Kolpashnikov²</p> <p>1: the Russian Presidential Academy of National Economy and Public Administration of the Russian Federation, Russian Federation; 2: Thomson Reuters</p>	<p>Promoting Computational Thinking Skills in Primary School Students to Improve Learning of Geometry</p> <p>Leovy Echeverría¹, Ruth Cobos², Mario Morales³, Fernando Moreno¹, Victor Negrete¹</p> <p>1: Universidad Pontificia Bolivariana, Colombia; 2: Universidad Autónoma de Madrid, España; 3: Universidad de Córdoba, Colombia</p>	
<p>W2-G: A3 - Policy & Society</p> <p>Location: Amber</p> <p>Chair: Ruben Morales-Menendez, Tecnológico de Monterrey</p> <p>Development of an Educational Ecosystem that Supports Engineering Research</p> <p>Varghese Panthaloorkan</p> <p>Rajagiri School of Engineering & Technology, India</p> <p>Research Path that Improves Student Engagement</p> <p>Ruben Morales-Menendez¹, Francisco J Cantu Ortiz¹, Nathalie Galeano Ramirez¹, James Fangmeyer², Ana Marcela Hernandez de Menendez¹</p> <p>1: Tecnológico de Monterrey; 2: Catholic University of America, USA</p> <p>Place and role of K-MOOC in Hungarian and Trans-border Education</p> <p>Istvan Simonics</p> <p>Obuda University, Hungary</p> <p>A system engineering approach in orienting traditional engineering towards modern engineering</p> <p>Adel Ablawi, AbdulAziz Alsayyari, Mohammad Sadique Nawab</p> <p>Shaqra University, Saudi Arabia</p> <p>Media competence: Enable for digitization</p> <p>Denise Grams</p> <p>University of Applied Management, Germany</p> <p>Work Placement in Higher Education – Bridging the Gap between Theory and Practice</p> <p>Robert Immerstein, Harald Hasleberg, Terje Bråthen</p> <p>University of South-Eastern Norway, Norway</p>	<p>Awareness and Cooperation of Relevant Stakeholders by Improving a Curriculum for SMEs Sustainability and Increasing Competences Related to Green Tourism</p> <p>Nunzio Casalino¹, Barbara Borin¹, Giuliana Pizzolo², Simone Cavallini²</p> <p>1: LUISS Business School and Marconi University; 2: LUISS Business School</p> <p>W2-H: SS: IREP'19 - Innovation in Real Engineering Projects</p> <p>Location: Pearl</p> <p>Chair: Vinod Pangracious, American University in Dubai</p> <p>Chair: Songsu Son, American University in Dubai</p> <p>Evaluating project based education for IT-system engineering</p> <p>Jan Renz, Christoph Meinel</p> <p>HPI, Germany</p> <p>Enhancing Electric Energy Systems Final Project through Real Engineering Design Problems</p> <p>Manuel Travassos Valdez², Carlos Machado Ferreira², Fernando Maciel-Barbosa¹</p> <p>1: University of Porto & INESC TEC, PT, Portugal; 2: Departamento de Engenharia Eletrotécnica Coimbra Polytechnic - ISEC Coimbra, Portugal</p> <p>Predicting Bitcoin Prices using Deep Learning</p> <p>Maninder Jeet Kaur, S Yogeshwaran, Piyush Maheshwari</p> <p>Amity University, United Arab Emirates</p> <p>Project Based Learning methodology to improve electrical efficiency in road lighting</p> <p>Jorge M. F. Monteiro², Tiago A. P. Figueiredo², Rita M. Monteiro Pereira², Adelino J. C. Pereira², Fernando Maciel-Barbosa¹</p> <p>1: University of Porto, PT, Portugal; 2: Departamento de Engenharia Eletrotécnica Coimbra Polytechnic - ISEC Coimbra, Portugal</p> <p>Thermal engine using Nitinol wire</p> <p>Ghaleb Ali Ibrahim, Salem Haggag, Moon Diab, Hadi Abbas, Laith Al Qassem</p> <p>American University in Dubai, United Arab Emirates</p> <p>Integration of Real-World Project Tasks in a Course on Automation</p>	<p>The Influence of Interactive Art of Visual Music on the Creativity of Science and Engineering Students</p> <p>Hsin-Yun Chang¹, Hao-Chiang Lin², Ting-Ting Wu³, Yueh-Min Huang¹</p> <p>1: National Cheng Kung University; 2: National Tainan University; 3: National Yulin University of Science and Technology</p> <p>W2-D: EDUCON Steering Committee - by invitation only</p> <p>Location: Jade</p> <p>Chair: Manuel Castro, UNED</p> <p>Chair: Michael Auer, CTI</p>	

and Robot Engineering**Erik Hultman¹, Mats Leijon^{1,2}**

1: Uppsala University, Sweden; 2: Chalmers University of Technology, Sweden

3:00pm Coffee Break- Location: [Rixos Conference Center Foyer](#)**3:30pm****3:30pm W3-A: Industry Workshop - Cloud Services for Engineering Education**

-

5:00pmLocation: [Diamond Ballroom](#)
Chair: [Sebastian Gross](#), The MathWorks GmbH
Chair: [Stefano Olivieri](#), Mathworks**Teaching with MATLAB in the Cloud****Sebastian Gross, Stefano Olivieri**
The MathWorks GmbH, Germany**W3-B: SS: SEE'19 - Smart Engineering Education (2)**Location: [Aquamarine](#)
Chair: [Vladimir Uskov](#), Bradley University
Chair: [Jeffrey P. Bakken](#), Bradley University**Machine Learning-based Predictive Analytics of Student Academic Performance in STEM Education****Vladimir Uskov, Jeffrey Bakken, Ashok Shah, Adam Byerly**
Bradley University, United States of America**Engaging Control Systems Students with a Pneumatic Levitator Project****Diana Marcela Ovalle, Luis Francisco Combita**
UNIVERSIDAD DISTRITAL FRANCISCO JOSE DE CALDAS, Colombia**Adaptable Concept for Projects in Computer Science Degree Programs – An Experience Report****Jens Liebehenschel**
Frankfurt University of Applied Sciences, Germany**Assessing the Reliability of Automated Knowledge Control Results****Natalia Alexandrovna Serdyukova¹, Vladimir Ivanovich Serdyukov^{2,3}, Sergey Sergeevich Neustroev³, Svetlana Ivanovna Shishkina²**

1: Plekhanov University of Economics, Russian Federation; 2: Bauman Moscow State Technical University; 3: Institute of Education Management of the Russian Academy of Education

Can Instructors Use Social Media to Enhance Learning in a Smart Course Room and Foster a Culture of Academic Integrity?**Michele T. Cole, Louis B. Swartz**
Robert Morris University, United States of America**W3-G: A1 - Instructional Technology**Location: [Amber](#)
Chair: [Kiyohisa Nishiyama](#), Nagoya University
Chair: [Alexander Lehmann](#), Coburg University of Applied Sciences and Arts**Problem Tagging and Solution-Based Video Recommendations in Learning Video Environments****Alexander Lehmann**
Coburg University of Applied Sciences and Arts, Germany**Exploring Computational Thinking Skills in 3D Printing: A Data Analysis of an Online Makerspace****Christos Chytas¹, Alexandros Tsilingiris², Ira Diethelm¹**
1: University of Oldenburg, Germany; 2: Aristotle University of Thessaloniki**W3-H: A2 - Collaborative Learning**Location: [Pearl](#)
Chair: [Jorge Alberto González](#), ITESM
Chair: [Edmundo Tovar](#), Universidad Politécnica de Madrid**Measuring the Developing of Competences with Collaborative Interdisciplinary Work****Jorge A. Gonzalez-Mendivil, Miguel X. Rodríguez-Paz, Eduardo Caballero, Claudia L. Garay**
ITESM, Mexico**Motivation of Computer Science Students at Universities Organized around Small Groups****Daniel Lopez-Fernandez¹, Edmundo Tovar², Laura Raya¹, Francisco Marzal¹, José Jesús García¹**
1: U-tad: Technology and Digital Art University; 2: Technical University of Madrid**W3-C: A6 - Assessment (2)**Location: [Emerald](#)
Chair: [Kay Berkling](#), Cooperative State University
Chair: [Tiffany Cammidge](#), Khalifa University**State-of-the-Art to Measure the TPACK Level of Trainees in Higher Education to Increase the Learnability of the Train-The-Trainer Sessions****Nilüfer Deniz Faizan¹, Matthias Gottlieb¹, Alexander Löffler¹, Matthias Utesch², Helmut Krcmar¹**

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

Student Proficiency Profiles through the Computing Professional Skills Assessment**Maurice Michael Danaher¹, Kevin Schoepp², Anthony Rhodes³, Tiffany Cammidge⁴**

1: Zayed University, United Arab Emirates; 2: Independent; 3: Zayed University, UAE; 4: Khalifa University, UAE

Bilingual Ontology-Based Automatic Question Generation**Baboucar Diatta¹, Adrien Basse¹, Samuel Ouya²**

1: University Alioune Diop of Bambey, Senegal; 2: Department Computer Engineering University Cheikh Anta Diop Dakar Sénégal

Course experience evaluation using importance-performance analysis.**Ioannis Sitaridis, Fotis Kitsios**
University of Macedonia, Greece**A Study of Dispositions According to the IEEE Information Technology Curricula 2017 for German Industry and Student Population****Kay Berkling¹, Mehmet Ali Incekara³, Tom Wolske²**

1: Cooperative State University, Germany; 2: Fiducia GAD IT AG; 3: 1&1 Telecommunication SE

W3-D: Collaborative & Demo SpaceLocation: [Jade](#)*Available for reservation at the Registration Desk***W3-F: SS: GinEE'19 - Games in Engineering Education**Location: [Ruby](#)
Chair: [Matthias Gottlieb](#), Technical University of Munich
Chair: [Matthias Utesch](#), Staatliche Fach- und Berufsschule Technik München und Technische Universität München**A Model to Support Outside Classroom Learning****Boumediene Belkhouche, Heba Ismail, Fatmah Ramsi**
United Arab Emirates University, United Arab Emirates**Work in Progress: Enabling learning environments for underprepared engineering students at higher education institutes by blending game-based and project orientated methodologies****Ankie Sophia Robbets, Linda Van Ryneveld**
University of Pretoria, South Africa**Conceptual Framework for Developing Cyber Security Serious Games****Menelaos N. Katsantonis, Isabella Kotini, Panayotis Fouliras, Ioannis Mavridis**
University of Macedonia, Greece**A Gamification Framework for Long-Term Engagement in Education Based on Self Determination Theory and the Transtheoretical Model of Change****Ulrike Hammerschall**
University of Applied Sciences Munich, Germany**Teaching Methods for Simulation Games: The Example of Learning Business Process Change****Alexander Löffler¹, Debora Jacoby¹, Nilüfer Faizan¹, Matthias Utesch², Harald Kienegger¹, Helmut Krcmar¹**

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

Moodle Mobile Plugin for Problem- Based Learning (PBL) in Engineering Education

Anuradha Peramunugamage¹, Hakim Usouf², Janitha Hapuarachchi¹
1: University of Moratuwa, Sri Lanka; 2: University of Colombo School of Computing, Sri Lanka

Finding Learning and Teaching Content inside HPI School Cloud (Schul-Cloud)

Alexander Kremer, Arne Oberländer, Jan Renz, Christoph Meinel
Hasso-Plattner-Institute, Germany

Development of Universal Research Advising for Engineering Discipline

Kiyohisa Nishiyama¹, Lelele Emanuel²
1: Nagoya University, Japan; 2: Nagoya University, Japan

Evaluating the Impact of Personalized Content Recommendations on Informal Learning from Wikipedia

Heba Ismail, Boumediene Belkhouche
UAUE, United Arab Emirates

An inter-institutional and inter-disciplinary collaborative learning to in-silico Motif discovery in Molecular sequences

Salwa Fatima Ali Mohsin¹, Smitha Sunil Kumaran Nair¹, Saqar Said Nasser Al Maskari¹, Mohamed Yousuf Said Al Rawahi¹, Shobhy Sosa Andrews², Jenifer Caroline Johnson², Sharmila Queenthy², Akhila Rajan²
1: Middle East College, Sultanate of Oman; 2: Waljat College of Applied Sciences, Sultanate of Oman

Team and collaborative work of the students within subject on Master of Science study

Grzegorz Jodlowski¹, Karol Sztetker¹, Marta Wojcik¹, Jaroslaw Zuwała²
1: AGH University of Science and Technology, Poland; 2: Institute for Chemical Processing of Coal, Zamkowa 1, 41-803 Zabrze, Poland

Collaborative Learning Outcomes for Creation of Industry-oriented Curricular: a Case Study of ERASMUS+ Project Physics

Anatolijs Zabasta, Anastasija Ziravecka, Nadezda Kunicina, Jelena Caiko, Leonids Ribickis
Riga Technical University, Latvia

Student-activation by employing Student Peer Review with Criteria-Based Assessment

Omid Mirmotahari¹, Yngvar Berg¹, Ester Fremstad², Crina Damsa²
1: Dept. of Informatics, Universitetet i Oslo, Norway; 2: Dept. of Education, Universitetet i Oslo, Norway

6:30pm Conference Dinner and Banquet
Location: [Dubai Marina Promenade](#)

9:00pm **DHOW CRUISE IN THE MARINA**

Marina Channel, Dubai Marina

Meeting Point Coordinates: [25.071115](#), [55.130849](#)

Date: Thursday, 11/Apr/2019

8:00am Registration - All Day
Location: [Rixos Conference Center Foyer](#)

3:00pm Registration Desk Open

8:30am **R1-A: A5 - V&R Labs**
Location: [Diamond Ballroom](#)
Chair: [Felix Garcia Loro](#), UNED

10:15am Chair: [Thomas Klinger](#), Carinthia University of Applied Sciences

Collaborative Learning Through Development of Virtual DC Network Laboratory: A Case Study

Gargi Basu¹, **Urmila Kar²**
1: Jnan Chandra Ghosh Polytechnic, Kolkata-23, INDIA; 2: NITTTR, Kolkata, India

Internet of Things Remote Labs: Experiences with Data Analysis Experiments for Students Education

Manfred Leisenberg, Madeleine Stepponat
University of Applied Sciences -FHM Bielefeld, Germany

PILAR: Sharing VISIR Remote Labs through a Federation

Felix Garcia-Loro¹, Elio San Cristobal¹, Gabriel Diaz¹, Manuel Castro¹, Pablo Orduña², Wlodek Kulesza³, Kristian Nilsson³, Andre Fidalgo⁴, Gustavo Alves⁴, Unai Hernandez-Jayo⁵, Javier Garcia-Zubia⁵, Christian Kreiter⁶, Andreas Pester⁶, Michael Auer⁷, Carla Garcia⁸, Ricardo Tavo⁸, Kati Valtonen⁹, Elina Lehtikangas⁹

R1-B: A1 - Lab and Simulation Tools (2)

Location: [Aquamarine](#)
Chair: [Ottar Osen](#), NTNU
Chair: [Aurelia Ciupe](#), Technical University of Cluj-Napoca

Learning Computer Vision using a Humanoid Robot

Jessica Patricia Madureira Vital^{1,2}, **Nuno Miguel Fonseca Ferreira^{1,3,4,5}**, **Antonio Valente^{1,2}**, **Vitor Filipe^{1,2}**, **Salviano F.S.P. Soares^{1,2}**
1: INESC TEC-INESC Technology and Science; 2: University of Tras-os-Montes and Alto Douro; 3: Institute of Engineering of Coimbra / Polytechnic Institute of Coimbra; 4: Knowledge Engineering and Decision-Support Research Center (GECAD) of the Institute of Engineering, Polytechnic Institute of Porto; 5: Laboratory of Artificial Intelligence and Computer Science (LIACC)

Learning Agile with Intelligent Conversational Agents

Aurelia Ciupe, Doru Florin Mititica, Serban Meza, Bogdan Orza
Technical University of Cluj-Napoca, Romania

On the Use of Hardware-in-the-Loop for Teaching Automation Engineering

Ottar L Osen
NTNU - Norwegian University of Science

R1-C: A2 - Learning Tools and Methodologies

Location: [Emerald](#)
Chair: [Usman Naeem](#), Queen Mary University of London
Chair: [Birgit Rösel](#), OTH Regensburg

Experiences with a new digitalized concept for teaching control theory as minor subject at a university of applied science

Thomas Köhler¹, **Birgit Rösel²**
1: Martin-Luther-Universität Halle-Wittenberg, Germany; 2: OTH Regensburg, Germany

Methodology of Teaching and Learning Antenna Theory at Port Said University

Heba Soliman
Port Said University, Egypt

Study Centre for IT Foundations at Tallinn University of Technology – Introducing Computer Science Basics to First Year Students

Olga Mironova
Tallinn University of Technology, Estonia

Knowledge Generation in Higher Education Institutions

Jorge Lozoya-Santos, Brenda Guajardo-Leal, Adriana Vargas-Martinez, Indira Molina-Gaytán, Rubén Morales-Menéndez, Ricardo Ramírez-Mendoza, Armando Román-Flores

R1-F: A3 - STEM & K-12 Education (3)

Location: [Ruby](#)
Chair: [Christos Douligeris](#), University of Piraeus
Chair: [Viviane Rodrigues Madeira](#), CEFET/RJ

EduApp: A Collaborative Application for Mobile Devices to Support the Educational Process in Greek Secondary Education

Eleni Seralidou, Christos Douligeris, Christina Gralista
University of Piraeus, Greece

Holographic Application of Endemic Origami Animals from the Galápagos Islands that Self-Folds

Diana E. Olmedo-Vizueta, José V. Monar-Manzano, Geovanna G. Carrera-Espin, Ramiro Santos-Poveda, Victor F. Proaño-Brito
Escuela Superior Politécnica de Chimborazo, Ecuador

Current Status and Perspectives of Debugging in the K12 Classroom: A Qualitative Study

Tilman Michaeli¹, **Ralf Romeike²**
1: Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany; 2: Freie Universität Berlin, Germany

1: UNED, Spain; 2: DeustoTech-LabsLand, Spain; 3: BTH, Sweden; 4: ISEP, Portugal; 5: UDeusto, Spain; 6: CUAS, Austria; 7: IAOE; 8: EVM; 9: OMNIA, Finland

Building a Remote Laboratory for Advanced Experiments in Transmission Line Theory

Thomas Klinger, Christian Kreiter, **Andreas Pester**, Christian Madritsch
Carinthia University of Applied Sciences, Austria

Developing the Next Generation Cluster of Computers Remote Laboratory

Christian Madritsch, **Thomas Klinger**, **Andreas Pester**
Carinthia University of Applied Sciences, Austria

Teaching an oscilloscope through progressive onboarding in an Augmented Reality based virtual laboratory

Mesut Alptekin¹, **Katrin Temmen**²
1: University of Paderborn, Germany; 2: University of Paderborn, Germany

R1-G: A6 - Assessment (3)

Location: **Amber**
Chair: **Ali M. Al-Bahi**, King Abdulaziz University
Chair: **Kay Berkling**, Cooperative State University

A Framework for Constructing and Assessing Knowledge Management Systems for Engineering Institutes

Abdelfattah Y. Soliman¹, **Alya A. Badawi**², **Manal ElKordy**², **Ali M. Al-Bahi**¹
1: King Abdulaziz University, Saudi Arabia; 2: Alexandria University, Egypt

Assessing Technology Adoption at a University of Technology: A Case Study of Electronic Response Systems

Onalenna Pearl Tsumake-Kabuya, **James Swart**
Central University of Technology, South Africa

Presenting an Open-Source Platform for Supporting Gamified Class Teaching with Peer Reviews

Katja Neubehler, **Kay Berkling**
Cooperative State University, Germany

Boosting Student Performance with Peer Reviews; Integration and Analysis of Peer Reviews in a Gamified Software Engineering Classroom.

Kay Berkling, **Katja Neubehler**
Cooperative State University, Germany

Emotional Intelligence as a Success Indicator for Implementing Liberal Arts in Morocco

Ilham Kissani, **Awatif Boudihaj**
Al Akhawayn University, Morocco

10:15am

-

10:45am

10:45am

-

12:15pm

Coffee Break

Location: [Rixos Conference Center Foyer](#)

G-3: Industry Keynote and Panel on Educational Platforms and Software

Location: [Diamond Ballroom](#)
Chair: **Patrick Beyrouti**, Flagship Projects

PANELISTS

Hanny Alshazly, Senior Regional Director - Middle East, Blackboard

Tom Lee, Chief Business Development Officer, Quanser

Sanjay Raghavendra, Technical Manager - Gulf Region and Pakistan, ABB

Industry Keynote: Integrating MATLAB Grader Assignments into Engineering Math Courses

Bryan Daniels
Higher Colleges of Technology, United Arab Emirates

and Technology, Norway

Towards the Vision of an LMS Integrated, Browser-Based Simulation to Program LEGO MindStorms EV3s in ANSI-C

Pascal Degener, **Valentin Haak**, **Carolin Gold-Veerkamp**, **Joerg Abke**
University of Applied Sciences
Aschaffenburg, Germany

Use of a physical water pipe network competition in applied Civil Engineering students' learning

Mohamed Abdelmoghny Hamouda^{1,2}
1: Department of Civil and Environmental Engineering, United Arab Emirates University, United Arab Emirates; 2: National Water Center, United Arab Emirates University, United Arab Emirates

R1-H: SS: IDEE'19 - Inclusion and Diversity in Engineering Education (2)

Location: **Pearl**
Chair: **Fernando Maciel-Barbosa**, University of Porto, PT
Chair: **Olga Oreshkina**, Bauman Moscow State Technical University

Solving the Problem of Limited Content Accessibility in Natural Science Disciplines for Students with Hearing Impairments at Technical University

Olga Oreshkina, **Alexandr Gurov**
Bauman Moscow State Technical University, Russian Federation

Thinking Maps in Teaching Analogue Circuits Concepts Applied to Electronic Engineering: A Four-Year Case Study at UESTC, China

Yuanwang Yang, **Changjiang You**, **Hong Ye**, **Weijian Chen**, **Yiru Zhang**
UESTC, China, People's Republic of

Automatic Sign Language Translation to Improve Communication

Tiago Oliveira¹, **Emanuel Rocha**¹, **Nuno Escudeiro**¹, **Fernando Maciel Barbosa**², **Paula Maria Escudeiro**¹
1: ISEP, Portugal; 2: FEUP, Portugal

Teaching Writing and Reading to Children with Autism

Martin Cápaj¹, **Jarmila Cápajová**²
1: Constatntine the Philosopher University, Slovak Republic; 2: Spojená škola, Mudroňova 1, Nitra, Slovak Republic

Tecnologico de Monterrey, Mexico

Pedagogical Approaches to 21st Century Learning: A Model to Prepare Learners for 21st Century Competencies and Skills

Ghassan Frache¹, **George Tombras**², **Hector Nistazakis**², **Natoya Thompson**¹

1: Abu Dhabi Vocational Education and Training, United Arab Emirates; 2: National and Kapodistrian University of Athens, Greece

Engaging Students in Computer Science Education through Game Development with Unity

Oswald Comber, **Renate Motschnig**, **David Haselberger**, **Hubert Mayer**
University Vienna, Austria

A Calculus Project to Support Students that Enter Engineering Courses

Viviane Rodrigues Madeira, **Ana Luiza Lima de Souza**, **Herlander Costa Alegre da Gama Afonso**, **Aruquia Peixoto**
CEFET/RJ, Brazil

R1-D: Collaborative & Demo Space

Location: **Jade**
Available for reservation at the Registration Desk

12:30pm -	Lunch Location: Turquoise Restaurant - Ground Level		
1:30pm			
1:30pm -	R2-A: SS: EeM¹⁹ - Experiences from the eMadrid Network: Making Educational Technology More Human Location: Diamond Ballroom Chair: Carlos Delgado Kloos , Universidad Carlos III de Madrid Chair: Manuel Castro , UNED	R2-B: Work in Progress (1) Location: Aquamarine Chair: Martin Zagar , RIT Croatia Chair: Kevin Anthony Jones , Nanyang Technological University	R2-C: Work in Progress (2) Location: Emerald Chair: Dimitar Lyubenov Todorov , Ulica College Chair: Martín Llamas Nistal , University of Vigo
3:00pm	Increasing engagement in a network security management course through gamification Sergio Martin , Gabriel Diaz , Manuel Castro , Miguel Rodríguez-Artacho UNED - Spanish University for Distance Education, Spain	Improving Dimensional Accuracy of Fused Deposition Modelling using Taguchi DFSS Sadeqh Babaii Kocheksaraii¹ , Jeff Bowser² , Luke Bennet² , Peter Doiron² 1: American University in Dubai, United Arab Emirates; 2: University of Prince Edward Island, Canada	Work in Progress: Improving Online Higher Education with Virtual and Remote Labs Mikel Perales , Luis Pedraza , Pablo Moreno-Ger Universidad Internacional de La Rioja
	Game Learning Analytics for Educators Antonio Calvo-Morata , Cristina Alonso-Fernandez , Manuel Freire , Ivan Martínez-Ortiz , Baltasar Fernández-Manjon Faculty of Informatics, Complutense University of Madrid, Spain	Work in Progress: Gathering Requirements and Developing an Educational Programming Language Nikita Dümmel , Bernhard Westfechtel , Matthias Ehmann University of Bayreuth, Germany	Work in Progress: Redefining Home through an Interdisciplinary Collaborative Research Experience Dimitar Lyubenov Todorov , Colleen Sunderlin , Richard Panetta Utica College, United States of America
	Moods in MOOCs: Analysing Emotions in the Content of Online Courses with edX-CAS Ruth Cobos , Francisco Jurado , Álvaro Villén Universidad Autónoma de Madrid, Spain	Work in Progress: International Student Cooperation in Capstone Research Project Martin Zagar¹ , Stephen Zilora² , Branko Mihaljevic¹ 1: RIT Croatia, Croatia; 2: RIT, Rochester, NY, USA	Work in Progress: Using Simulation as an Experiential Learning Tool for Enhancing Students Learning in Environmental Engineering Svetoslava Todorova Syracuse University, United States of America
	What Can You Do with Educational Technology that is Getting More Human? Carlos Delgado Kloos , Carlos Alario-Hoyos , Pedro J. Muñoz-Merino , María-Blanca Ibañez , Iria Estévez-Ayres , Raquel M. Crespo García Universidad Carlos III de Madrid, Spain	Work in Progress: Optimizing Student Engagement During Small Group Activities in Lecture Settings Kevin Hartman , Shannon Christopher Boesch National University of Singapore, Singapore	Work in Progress: Novel Didactic Training Platform for Transistor Devices and Applications Francisco Javier Zamora Universidad Distrital Francisco Jose de Caldas, Colombia
	Technology to empower relationships, interactions and emotions in the classroom Cesar Caceres-Taladriz Centro de Innovación en Educación Digital, Universidad Rey Juan Carlos, Spain	Work in Progress: Self-Directed Approach for Project Based Learning Activity Boon Seng Chew , Chew-Lin Chia , Francis Teo Singapore Polytechnic, Singapore	QMSFC: A System for Encouraging the Active Participation of Students in Flipped Classroom Fernando A. Mikic Fonte , Martín Liz Domínguez , Martín Llamas Nistal , Manuel Caeiro Rodríguez University of Vigo, Spain
	Do MOOCs sustain the UNESCO's Quality Education goal? Edmundo Tovar¹ , Bernardo Tabuenca¹ , Ahmed Alzaghoul¹ , Nelson Piedra³ , Carlos Delgado Kloos⁴ , Jim Sluss⁵ , Russ Meier⁶ , África López-Rey² , Elena Ruiz² , Felix Garcia-Loro² , Elio Sancristobal² , Miguel Rodríguez Artacho² , Sergio Martín² , Manuel Castro² 1: UPM, Spain; 2: UNED, Spain; 3: UTPL, Ecuador; 4: UC3M, Spain; 5: UO, USA; 6: MSoE, USA	Work in Progress: Use of Interactive Simulations in the Active Learning Model in Physics Education for Engineering Students at the Middle East College, Oman Senthilkumar R D Middle East College, Oman	Work in Progress: Supersensory box: increase your abilities René Joaquín Díaz , Rafaela Villalpando , Salvador Salas , Salmen Karrum TEC de Monterrey, Mexico
	R2-G: A2 - Student Engagement (2) Location: Amber Chair: Nuno Pombo , Universidade da Beira Interior Chair: Claudia Kaar , Johannes Kepler University Linz	R2-H: A6 - Assessment (4) Location: Pearl Chair: Tamer El-Maaddawy , UAE University Chair: Martin Jaeger , Australian College of Kuwait	Work in Progress: The Intersection of two Underrepresented Groups in Engineering in Brazil Bianca Celestino Damazio Paiva , Kamilla da Silva Duarte , Mayara Rodrigues de Carvalho Fernandes , Herlander Costa Alegre da Gama Afonso , Ana Luíza Lima de Souza , Aruquia Peixoto , Viviane Rodrigues Madeira CEFET/RJ, Brazil
	Adoption of Engineering Education Interventions From a Student Perspective Reolyn Heymann¹ , Jacob Jacobus Greeff² 1: University of Johannesburg, South	Industry Perspectives on Engineering Student Outcomes – A Comparative Study of Kuwait and Kazakhstan Martin Jaeger¹ , Desmond Adair² 1: Australian College of Kuwait, Kuwait; 2: Nazarbayev University, Kazakhstan	Improving learning performance using programming methodology Ricardo Almeida¹ , Emília Bigotte^{1,2} , Ana Teixeira³ 1: CASPAE, Portugal; 2: Coimbra Polytechnic – ISEC; 3: Coimbra Polytechnic – ESEC
			R2-D: Collaborative & Demo Space Location: Jade <i>Available for reservation at the Registration Desk</i>
			R2-F: SS: EFEM¹⁹ - Educating Future Engineering Managers Location: Ruby Chair: Despo Ktoridou , University of Nicosia Chair: Elli Doukanari , University of Nicosia
			Gamification and communication: an applied experience in a professional competencies development workshop Brenda Nelly Santos¹ , Alejandro Acuña² 1: Tecnológico de Monterrey, México; 2: Tecnológico de Monterrey, México
			Business Model Transformation Initiated by the Digital Transformation: A Review of Learning Concepts Clemens Drieschner , Ioannis Passalidis , Harald Kienegger , Helmut Krömer Technical University of Munich, Germany
			Student Experiences with Knowledge Management Vasso Stylianou , Andreas Savva University of Nicosia, Cyprus
			Language Expression Technicality in Technical Report Writing for Technology Major Non-native Students Epaminondas Epaminonda , Christou Charalambos , Apostolia Michael University of Nicosia, Cyprus
			Challenges in the Transition from Engineering to Management and Suggestions on Education Might Assist in Overcoming Them Epaminondas Epaminonda , Despo Ktoridou University of Nicosia
			Educating the New Generation of Engineer Managers to Stay Relevant in the 21st Century Workforce Despo Ktoridou¹ , Elli Doukanari¹ , Achilleas Karayiannis² 1: University of Nicosia; 2: Aston University

Africa; 2: North-West University, South Africa

Expanding the concept of learning spaces for Industrial Engineering education

David Ernesto Salinas-Navarro, Ericka Zulema Rodriguez Calvo, Claudia Lizette Garay Rondero
Tecnologico de Monterrey, Mexico

Structuring Academic Education in Makerspaces: Consolidated Findings from the Field

Claudia Kaar, Christian Stary
Institute of Business Informatics - Communications Engineering; Johannes Kepler University Linz, Austria

How to Get a Badge? Unlock Your Mind

Nuno Pombo^{1,2}, Nuno Garcia^{1,2}, Pedro Alves³
1: Universidade da Beira Interior, Portugal; 2: Instituto de Telecomunicações; 3: Universidade Lusófona de Humanidades e Tecnologias

Fostering Specific Dispositions of Critical Thinking for Student Engagement in Engineering

Patricia Caratozzolo¹, Alvaro Alvarez², Samira Hosseini³
1: School of Engineering, Tecnológico de Monterrey, Mexico; 2: School of Social Sciences, Tecnológico de Monterrey, Mexico; 3: Writing Lab, TecLabs, Tecnológico de Monterrey, Mexico

Evaluating Role Playing Efficiency to Teach Requirements Engineering

Sofia Ouhbi
UAE University, UAE

3:00pm
-
3:30pm
-
3:30pm
-
5:00pm

Coffee Break

Location: [Rixos Conference Center Foyer](#)

R3-A: Awards and Closing Ceremony

Location: [Diamond Ballroom](#)
Chair: Alaa K. Ashmawy, American University in Dubai

EDUCON 2020 Preview

Gustavo Alves and Teresa Restivo

Awards, Recognitions, and Closing Remarks

Manuel Castro

A Holistic Approach to Assess Learning Outcome Attainment Levels for Engineering Programs

Dipali Bansal, Naresh Grover, Romika Chaudhary, Rashima Mahajan, Ashish Vats, Ila Chaudhary, Gagandeep Kaur
Manav Rachna International Institute of Research and Studies, India

New Development and Evaluation Model for Self-regulated Smart Learning Environment in Higher Education

Yusufu Gambo, Muhammad Zeeshan Shakir
University of the West of Scotland, United Kingdom

Analyzing Learning Outcomes for Electronic Fundamentals Using Bloom's Taxonomy

Arthur James Swart¹, Marilene Dăneț²
1: Central University of Technology, South Africa; 2: Politehnica University Timisoara, Romania

Applying Outcomes-Based Learning in Civil Engineering Education

Tamer El-Maaddawy, Hilal El-Hassan, Hamad Al Jassmi, Lina Kamareddine
UAE University, United Arab Emirates

Date: Friday, 12/Apr/2019

10:00am
-
3:30pm

Cultural Program

Cultural Tours. Check for exact time and location at the Registration Desk

[Overview](#) > [Conference Agenda](#)

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