

**REV2018** 21 - 24 March 2018 - Düsseldorf, Germany

Overview	2:32:18 pm CET	Sebastian Schreiter	Logout
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Overview &gt; 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	Show Metadata	List View	Authors	More...	Name, Title...
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**Session Overview****Date: Wednesday, 21/Mar/2018**

- 8:00am **Registration**  
- Location: [Foyer](#)
- 8:00pm
- 9:00am **VISIR SIG Meeting**  
- Location: [Room 4.1.017](#)  
Chair: **Gustavo R. Alves**, Polytechnic of Porto - School of Engineering
- 10:00am **IAOE Executive Committee**  
- Location: [Room 5.1.0032](#)  
Chair: **Michael Auer**, CTI
- 12:00pm
- 12:00pm **EXCURSION: ELLI 2 Lab excursion**  
- Chair: **Tobias R. Ortelt**, TU Dortmund University  
Chair: **Tobias Haertel**, TU Dortmund University
- 6:00pm
- 1:00pm **WS1: Biomedical Engineering**  
- Location: [Room 4.1.001](#)  
Chair: **Maria Teresa Restivo**, Faculty of Engineering of University of Porto  
Chair: **Michael Auer**, CTI
- 2:30pm

**Digital Health for Computer Engineering Classes: an Experience**  
**Lucia Vaira**, [Mario A. Bochicchio](#)

**Towards an Automated Analysis of Forearm Thermal Images During Handgrip Exercise**  
**Pedro Silva**, [Ricardo Vardasca](#), Joaquim Mendes, Maria Teresa Restivo

**Handgrip Evaluation: Endurance and Handedness dominance**  
[Ricardo Vardasca](#), Paulo Abreu, Joaquim Mendes, Maria Teresa Restivo

**Early Signs of Diabetes Explored From an Engineering Perspective**  
[Jenny Lundberg](#), Lena Claesson

**Organic Compounds Integrated on Nanostructured Materials for Biomedical Applications**  
[Cristian Ravariu](#), Elena Manea, Florin Babarada, Doru Ursutiu, Dan Mihaiescu, Alina Popescu

- 2:30pm **Coffee Break**  
- Location: [Foyer](#)

3:00pm

- 3:00pm **WS2: PILAR Multiplier Event**  
- Location: [Room 4.1.001](#)  
Chair: **Doru Ursutiu**, "University "Transilvania" of Brasov - Academy of Romanian Scientists

**WS3: DIY "Hands-on remote" Experiment in Physics with Arduino**  
Location: [Room 4.1.017](#)  
Chair: **Pavel Brom**, Charles University in Prague

- 4:30pm **IAOE/GOLC Annual General Meeting**  
- Location: [Room 4.1.001](#)  
Chair: **Michael E. Auer**, Carinthia University of Applied Sciences

- 5:30pm
- 6:00pm **WELCOME: Welcome Reception**  
- Location: [Foyer](#)

8:00pm

**Date: Thursday, 22/Mar/2018**

- 8:00am **Registration**  
- Location: [Foyer](#)
- 4:00pm
- 9:00am **Opening**  
- Location: [Room 4.E.007](#)  
Chair: **Michael E. Auer**, Carinthia University of Applied Sciences
- 9:30am **Keynote I: Seeram Ramakrishna: Industry 4.0 and Circular Economy**  
- Location: [Room 4.E.007](#)  
Chair: **Reinhard Langmann**, Duesseldorf University of Applied Sciences
- 10:00am

10:00am	<b>Keynote II: Andreas Schreiber: Industrie 4.0 in Practical Applications: Challenges and Experiences</b>		
-	Location: <a href="#">Room 4.E.007</a>		
10:30am	Chair: <a href="#">Reinhard Langmann</a> , Duesseldorf University of Applied Sciences		
10:30am	<b>Coffee Break</b>		
-	Location: <a href="#">Foyer</a>		
11:00am			
11:00am	<b>FP1: Augmented &amp; Mixed Reality</b>	<b>FP2: Virtual &amp; Remote Labs</b>	<b>SP1: HMI &amp; IoT</b>
-	Location: <a href="#">Room 4.1.009</a>	Location: <a href="#">Room 4.1.007</a>	Location: <a href="#">Room 4.1.017</a>
1:00pm	Chair: <a href="#">David Boehringer</a> , University of Stuttgart	Chair: <a href="#">Gustavo R. Alves</a> , Polytechnic of Porto - School of Engineering	Chair: <a href="#">Karsten Henke</a> , Ilmenau University of Technology
	<b>A Literature Review on Collaboration in Mixed Reality</b> <a href="#">Philipp Ladwig</a> , Christian Geiger	<b>Remote Laboratory for Electrical Power Transmission Lines Simulation Unit</b> <a href="#">Kalyan B Ram</a> , Panchaksharayya S Hiremath, <a href="#">Prasanth Sai Meda</a> , Vijayalakshmi M B, <a href="#">Dr.Priyanka Paliwal</a> , <a href="#">Prajwal M S</a> , <a href="#">Karthick B</a>	<b>Exposing Robot Learning to Students in Augmented Reality Experience</b> <a href="#">Igor M. Verner</a> , <a href="#">Michael Reitman</a> , <a href="#">Dan Cuperman</a> , <a href="#">Torina Yan</a> , <a href="#">Eldad Finkelstein</a> , <a href="#">Tal Romm</a>
	<b>REMLABNET and Virtual Reality</b> <a href="#">Tomas Komenda</a> , <a href="#">Franz Schauer</a>	<b>Sustainability of the Remote Laboratories Based on Systems with Limited Resources</b> <a href="#">Galyna Tabunshchyyk</a> , <a href="#">Tetiana Kapliienko</a> , <a href="#">Peter Arras</a>	<b>An Approach to Teaching a Blind Children of Geographic Topics Through Applying a Combined Multimodal User Interfaces.</b> <a href="#">Dariusz Mikulowski</a>
	<b>The Effect of Augmented Reality in Solid Geometry Class on Students' Learning Performance and Attitudes</b> <a href="#">Enrui Liu</a> , <a href="#">Yutan Li</a> , <a href="#">Su Cai</a> , <a href="#">Xiaowen Li</a>	<b>What are Teachers' Requirements for Remote Learning Formats? Data Analysis of an E-Learning Recommendation System</b> <a href="#">Thorsten Sommer</a> , <a href="#">Valerie Stehling</a> , <a href="#">Max Haberstroh</a> , <a href="#">Frank Hees</a>	<b>Development of a Virtual Environment for Environmental Monitoring Education</b> <a href="#">Jeremy Dylan Smith</a> , <a href="#">Vinod Lohani</a>
	<b>Multimodal Data Representation Models for Virtual, Remote, and Mixed Laboratories Development</b> <a href="#">Yevgeniya Sulema</a> , <a href="#">Ivan Dychka</a> , <a href="#">Olga Sulema</a>	<b>"Electromagnetic Remote Laboratory" with Embedded Simulation and Diagnostics</b> <a href="#">Michal Gerza</a> , <a href="#">Franz Schauer</a> , <a href="#">Pavel Beno</a> , <a href="#">Das Sayan</a> , <a href="#">Ime Archibong</a>	<b>School Without Walls - An Open Environment for the Achievement of Innovative Learning Loops</b> <a href="#">Carole Salis</a> , <a href="#">Marie Florence Wilson</a> , <a href="#">Franco Atzori</a> , <a href="#">Stefano Leone Monni</a> , <a href="#">Fabrizio Murgia</a> , <a href="#">Giuliana Brunetti</a>
	<b>Using Unity 3D as the Augmented Reality Framework for Remote Access Laboratories</b> <a href="#">Mark Smith</a> , <a href="#">Ananda Maiti</a> , <a href="#">Andrew D. Maxwell</a> , <a href="#">Alexander A. Kist</a>	<b>Smart Grid Remote Laboratory</b> <a href="#">Arun Kumar S</a> , <a href="#">Manish Ahlawat</a> , <a href="#">Dr. Sanjoy Kumar Parida</a> , <a href="#">Prasanth Sai Meda</a> , <a href="#">Vishnu Das V</a> , <a href="#">Preeti S Biradar</a> , <a href="#">Prathap S</a> , <a href="#">Kalyan Ram B</a>	<b>XOR - A Web Application Framework for Automated Security Analysis of Firmware Images of Embedded Devices</b> <a href="#">Christoph Vorhauer</a> , <a href="#">Klaus Gebeshuber</a>
	<b>Voice Driven Virtual Assistant Tutor in Virtual Reality for Electronic and Electrical Engineering Remote Laboratories (Remote presentation)</b> <a href="#">Michael James Callaghan</a> , <a href="#">Gildas Bengloan</a> , <a href="#">Julien Ferrer</a> , <a href="#">Léo Cherel</a> , <a href="#">Mohamed Ali El Mostadi</a> , <a href="#">Niall McShane</a> , <a href="#">Augusto Gómez Eguiluz</a>	<b>Process Mining Applied to Player Interaction and Decision Taking Analysis in Educational Remote Games</b> <a href="#">Thiago Schaedler Uhlmann</a> , <a href="#">Luciano Antonio Mendes</a> , <a href="#">Eduardo Alves Portela Santos</a>	<b>Investigating Rate Increase in Aerospace Factory by Simulation of Material Flow Operations</b> <a href="#">Laura Lopez-Davalos</a> , <a href="#">Amer Liaqat</a> , <a href="#">Windo Hutabarat</a> , <a href="#">Divya Tiwari</a> , <a href="#">Ashutosh Tiwari</a>
			<b>Low-cost, Open-source Automation System For Education, With Node-red And Raspberry Pi</b> <a href="#">Phaedra Degreef</a> , <a href="#">Dirk Van Merode</a> , <a href="#">Galyna Tabunshchyyk</a>
1:00pm	<b>Lunch</b>		
-	Location: <a href="#">Foyer</a>		
2:00pm			
2:00pm	<b>Keynote III: Chee Hoe Lee: Secure Remote Services</b>		
-	Location: <a href="#">Room 4.E.007</a>		
2:30pm	Chair: <a href="#">Harald Jacques</a> , Duesseldorf University of Applied Sciences		
2:30pm	<b>FP3: Virtual &amp; Remote Labs</b>	<b>SP2: Networking &amp; Cloud Technology</b>	
-	Location: <a href="#">Room 4.1.009</a>	Location: <a href="#">Room 4.1.017</a>	
3:30pm	Chair: <a href="#">Kalyan B Ram</a> , Electrono Solutions Pvt Ltd	Chair: <a href="#">Vinayak Ashok Prabhu</a> , Nanyang Polytechnic	
	<b>Use of the remote laboratory VISIR in a secondary school constructivist didactic experience to optimize Electricity learning</b> <a href="#">Manuel P. Blázquez-Merino</a> , <a href="#">Alejandro Macho Aroca</a> , <a href="#">Pablo Baizán Álvarez</a> , <a href="#">Felix García Loro</a> , <a href="#">Elio San Cristobal</a> , <a href="#">Gabriel Diez</a> , <a href="#">Manuel Castro</a>	<b>Virtual Working Environment Scheduling of the Cloud System for Collective Access to Educational Resources</b> <a href="#">Irina Bolodurina</a> , <a href="#">Alexander Shukhman</a> , <a href="#">Leonid Legashev</a> , <a href="#">Yury Ushakov</a> , <a href="#">Petr Polezhaev</a>	
	<b>On Effective Maintenance Of Distributed Remote Laboratories</b> <a href="#">Tobias Fäth</a> , <a href="#">Felix Seidel</a> , <a href="#">Karsten Henke</a> , <a href="#">Heinz-Dietrich Wuttke</a> , <a href="#">René Hutschenreuter</a>	<b>Activities of Euro-CASE Engineering Education Platform</b> <a href="#">Petar Bogoljub Petrovic</a> , <a href="#">Milos Srecko Nedeljkovic</a>	
	<b>Visual Tools for Aiding Remote Control Systems Experiments with Embedded Controllers</b> <a href="#">Ananda Maiti</a> , <a href="#">Andrew D Maxwell</a> , <a href="#">Alexander A Kist</a>	<b>Ant Colony Algorithm for Building of Virtual Machine Disk Images within Cloud Systems</b> <a href="#">Alexander Shukhman</a> , <a href="#">Irina Bolodurina</a> , <a href="#">Petr Polezhaev</a> , <a href="#">Yury Ushakov</a> , <a href="#">Leonid Legashev</a>	
		<b>Development Models and Intelligent Algorithms for Improving the Quality of Service and Security of Multi-Cloud Platforms</b> <a href="#">Denis I. Parfenov</a> , <a href="#">Irina P. Bolodurina</a>	
2:30pm	<b>POS: Poster presentation</b>		
-	Location: <a href="#">Room 4.1.001</a>		
5:00pm	Chair: <a href="#">Christian Geiger</a> , HS Düsseldorf		
	<b>A Mobile Application For Voiced And Remote Control Of Programmable Instruments</b> <a href="#">Burak Ece</a> , <a href="#">Ayse Yayla</a> , <a href="#">Hayriye Korkmaz</a>		
	<b>A Proposed Undergraduate Course In Remote Engineering</b> <a href="#">Ian Grout</a> , <a href="#">Nguyen Thi Lan Huong</a>		
	<b>An Approach for Supporting of Navigation Of Blind People in Public Building Based on Hierarchical Map Ontology.</b>		

Dariusz Mikulowski, Marek Pilski

**An experience API framework to describe learning interactions from On-line Laboratories**

Pedro Paredes Barragan, Miguel Rodriguez Artacho, Elio Sancristobal Ruiz, Manuel Castro Gil, Hamadou Saliah-Hassane

**An Intervention Study of Virtual Reality In Implanted Port-A Catheter Education Program**

Li-Ling Hsu

**Analysis Of Tourism Services Opinions Based On The Semantical Orientation Of The Text**

Hector Fernando Gomez Alvarado

**Augmented Reality-based Interactive Simulation Application of Inquiry Learning of Spectrum in Astronomical Education**

Yang Yang, Yijing Geng, Chao Wu, Su Cai, Jian Gao

**Cloud based Digital Valuation System**

Kalyan B Ram, Dr.Jayaramaiah GV, Prasanna Kumar, Mallikarjuna Sarma, Arun Kumar S

**Cloud Railroad Simulator**

Timur Bakibayev, Gulnara Bekmagambetova, Zarina Ulykpanova

**Data Model "Categories Of Operations, Entities And Relations" For Situational Centers**

Fedor Georgievich Maitakov, Evgeny Vladimirovich Petrenko, Aleksandr Alekseevich Merkulov

**Designing, Implementation and Testing of Servo Controller for DC Motor via Internet**

Milan Matijevic, Aleksandra Veljovic, Nikola Jovic, Andrija Jestrovic, Zeljko Despotovic, Tamara Nestorovic

**Developing And Evaluating A Smart Learning System At Fujairah University**

Ahmad Qasim AlHamad

**Developing SMART Educational Cloud Environment on the Basis of Adaptive Mass Open Online Courses**

Veronika Zaporozhko, Denis Parfenov

**Development And Analysis Of Evaluation Algorithm For Different Cartographic Systems (ECS, ECDIS, BalticWeb)**

Inese Barbare, Dmitrijs Gorelikovs, Andrejs Zvaigzne

**Development of Hybrid Methods and Intelligent Algorithms for Controlling the Flows of Big Data in the Information and Communication Educational Environment**

Denis I. Parfenov, Irina P. Bolodurina

**DIY "Hands-on-remote" Experiment In Physics With Arduino**

Pavel Brom, Frantisek Lustig, Pavel Kuriscak, Jiri Dvorak

**From hobbyist robots to serious remote STEM educational robots**

Pedro Plaza Merino, Elio Sancristobal, German Carro, Manuel Blazquez, Ramon Carrasco, Manuel Castro

**Implementation of IoT in Academic Environment**

Pooja Iranna, Darshan HO, Nikhil Janardhan, Gaurav Jayakumar, Venkata Vivek Gowripeddi, Anitha V, Shruthi PC

**Influence Of The Direction Of Movement Of Earth-Moving And Construction Machines On The Stability Of Remote Control Data Transmission Via Mobile Communication Channels**

Tatyana Viktorovna Golubeva, Sergey Vladimirovich Konshin, Sergey Leshchev, Natalia Mironova, Boris Tshukin

**Influence Of The Direction Of Movement Of Earth-Moving And Construction Machines On The Stability Of Remote Control Data Transmission Via Mobile Communication Channels**

Tatyana Viktorovna Golubeva, Sergey Vladimirovich Konshin, Sergey Leshchev, Natalia Mironova, Boris Tshukin

**Intellectualization Of Municipal Management In Conditions Of Digital Economy**

Alexander Vasilyevich Golubkov, Natalia Anatolievna Kostrikova, Alexander Alexeyevich Merkulov, Rashid Jarullaevich Yafasov

**IoT Power Control**

Vladimir Miodrag Cvjetkovic, Marios Samanis

**LabSocket-E, LabVIEW and myRIO in Real-Time/Embedded Systems student teaching and training**

Doru Ursutiu, Cornel Samoila, Andrei Neagu

**Maritime University – is a Kernel of the Human Capital Development in the Track Marinet of the Russian NTI**

Natalia Anatolievna Kostrikova, Vladimir Alekseevich Volkogon, Rashid Yarullaevich Yafasov

**MELLO – Teaching through Face-to-Face and Online Laboratories**

Alexander Kist, Hannah Campos Remon, Lindy Orwin, Andrew Maxwell, Ananda Maiti, Victoria Terry, Peter Albion

**Multi Segment Industrial Data Transfer Networks Development**

Vladlen Shapo

**Network Interactive Laboratory For Training Marine Specialists**

Daniil Aleksandrovich Krymov, Natalya Anatolyevna Kostricova, Aleksandr Alekseevich Merkulov

**Next Generation Engineering Processes Enabled by PTC Technology**

Michael A Reitman

**Remote Engineering Education Set-Up of Hydraulic Pump and System**

Milos Srecko Nedeljkovic, Novica Zvonko Jankovic, Djordje Svetislav Cantrak, Dejan Bogoljub Ilic, Milan Slavko Matijevic

**SIMNET: Simulation-based Challenges for Computer Network Courses**

Alvaro Luis Fraga, Maria Guadalupe Gramajo, Federico Trejo, Selena Garcia, Gustavo Juarez, Leonardo Franco

**Smart Applications for Raising Awareness of Young Citizens Towards Using Renewable Energy Sources and Increasing Energy Efficiency in the Local Community**

Radojka Krneta, Snežana Dragičević, Andreas Pester, Andreja Rojko

#### Teaching And Learning Using Remote Labs Within The Scope Of The VISIR+ Project

Ignacio Evangelista, Juan Farina, María Isabel Pozzo, Elsa Dobboletta, Susana Marchisio, Sonia Concari, Federico Lerro, Franco Del Colle, Gustavo Alves, Javier García Zubia, Unai Hernandez

#### Teaching Automation And Logistics With Virtual Industrial Process

Florence Lecrog, Jean Grieu, Hadhoum Boukachour

#### Wireless Sensor Network to Predict Black Sigatoka in Banana Cultivations

Andrés Subert Semant

#### „ Radiation Remote Laboratory“ with Two Level Diagnostics

Michal Krbeček, Franz Schauer, Das Sayan, Miroslava Ozvoldova, Frantisek Lustig

3:30pm

#### Coffee Break

Location: Foyer

-

4:00pm

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4:00pm

#### FP4: Virtual & Remote Labs

Location: Room 4.1.009

Chair: Katarína Zakova, SUT, Slovakia

#### FP5: Applications and Experiences

Location: Room 4.1.007

Chair: Igor M. Verner, Technion - Israel Institute of Technology

#### SP3: Virtual & Remote Labs

Location: Room 4.1.017

Chair: Javier Garcia-Zubia, University of Deusto

5:00pm

#### Combining virtual and remote interactive labs and visual/textual programming: the Furuta pendulum experience

Daniel Galán, Dictino Chaos, Luis de la Torre, Ernesto Aranda

#### Enabling Remote PLC Training Using Hardware Models

Alexander A. Kist, Ananda Maiti, Catherine Hills, Andrew Maxwell, Karsten Henke, Dieter Wuttke, Tobias Fäth

#### Framework for Augmented Reality Scenarios in Engineering Education

Matthias Neges, Mario Wolf, Robert Kuska, Sulamith Frerich

#### TRIANGLE Portal: An user-friendly Web interface for remote experimentation

Almudena Díaz Zayas, Alberto Salmerón Moreno, Gustavo García Pascual, Pedro Merino

#### Vocational Education for the Industrial Revolution

Enrique Blanco, Fernando Schirmbeck, Claiton Costa

#### Virtual Power-Line Communications Laboratory for Technology Development and Research

Asier Llano, Xabier Osorio, David de la Vega, Itziar Angulo, Txetxu Arzuaga

#### Hands-on Remote Laboratories

Frantisek Lustig, Pavel Brom, Pavel Kuriscak, Jiri Dvorak

#### Students' Perception Of E-Library System At Fujairah University

Ahmad Qasim AlHamad, Roqayah Abdulraheim Alhammadi

#### "Digital Remote Labs Built By The Students And For The Students".

Nikhil J., Pavan J, Darshan H O, Anand kumar G, Gaurav J, Yamuna Devi CR

5:30pm

#### Pickup for Dinner

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5:45pm

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7:00pm

#### Conferene Dinner & GOLC Award Ceremony

Location: Castle "Schloss Burg"

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10:30pm

Chair: Reinhard Langmann, Duesseldorf University of Applied Sciences

### Date: Friday, 23/Mar/2018

8:30am

#### Registration

Location: Foyer

-

4:00pm

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9:00am

#### Keynote IV: Rahman Jamal: Preparing the Engineering Student of 2025 in Engineering System Design Thinking

Location: Room 4.E.007

Chair: Doru Ursutiu, "University ""Transilvania"" of Brasov - Academy of Romanian Scientists

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9:30am

#### Keynote V: Ishwar K. Puri: Preparing the University for Rapid Digital Evolution

Location: Room 4.E.007

Chair: Doru Ursutiu, "University ""Transilvania"" of Brasov - Academy of Romanian Scientists

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10:00am

#### Coffee Break

Location: Foyer

-

10:30am

-

10:00am

#### IGIP: IGIP Executive Committee

Location: Room 5.1.0032

-

4:00pm

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10:30am

#### Demo: Demonstrations

Location: Room 4.1.001

Chair: Alberto Cardoso, University of Coimbra  
Chair: Maria Teresa Restivo, Faculty of Engineering of University of Porto

#### FP6: Online Engineering

Location: Room 4.1.009

Chair: Alexander A. Kist, University of Southern Queensland

12:30pm

#### Cloud-based Industrial Control Services

Reinhard Langmann, Leandro Rojas-Peña

#### Human-Computer Interaction In Remote Laboratories With The Leap Motion Controller

Ian Grout

#### Virtual Lab On Analog Electronic Circuits

Narasimhamurthy Kc, Ankit Sharma, Shorya Shubham, Chandan Hr

#### Development and Implementation of Remote Laboratory as an Innovative Tool for Practicing Low-Power Digital Design Concepts and Its Impact on Student Learning

Shatha AbuShanab, Marco Winzker, Rainer Brück

#### Web Tool for Designing and Testing of Digital Circuits within a Remote Laboratory

Javier Garcia-Zubia, Eneko Cruz, Luis Rodriguez-Gil, Ignacio Angulo, Pablo Orduna, Unai Hernandez-Jayo

#### Using Learning Theory for Assessing Effectiveness of Laboratory Education Delivered via a Web-based Platform

Shyam Diwakar, Rakhi Radhamani, Nijin Nizar, Dhanush Kumar, Bipin Nair, Krishnashree

#### Using IPython to Demonstrate the Usage of Remote Labs in Engineering Courses – A Case Study Using a Remote Rain Gauge

	<b>Alberto Cardoso</b> , Joaquim Leitão, Paulo Gil, Alfeu S. Marques, Nuno E. Simões	<b>Achuthan</b>	
	<b>Using Remotely Controlled One-way Flow Control Valve for Speed Regulation of Pneumatic Cylinder</b> Brajan Bajčić, Slobodan Dudić, Jovan Šulc, <b>Vule Reljić</b> , Dragan Šešlija, Ivana Milenković	<b>Remote Monitoring for Structural Health</b> Misbahuddin Mohammed, Nithin Devang, <b>Abul Azad</b> , Veysel Demir	
	<b>Machine Learning Emotional Recognition – Web Based Observation</b> Kevin Galler, <b>Andreas Pester</b>	<b>Evaluating Remote Experiment From A Divergent Thinking Point Of View</b> <b>Cornel Samoila</b> , Doru Ursutiu	
	<b>A Cloud-based Blended Learning Lab for PLC education</b> <b>Reinhard Langmann</b> , Matthias Coppenrath	<b>Digitalization of Engineering Education: from E-learning to Smart Education</b> <b>Irina Makarova</b> , Ksenia Shubenkova, Dago Antov, Anton Pashkevich	
	<b>Arduino And ISES “Hands-on-remote” Physics Laboratories</b> Frantisek Lustig, <b>Pavel Brom</b> , Pavel Kuriscak, Jiri Dvorak		
	<b>Online detection of abnormalities in blood pressure waveform: Bisfiriens and Alternans Pulse</b> <b>Daniel Nogueira</b> , Rafael Tavares, Paulo Abreu, Maria Teresa Restivo		
	<b>Online Experimenting with 3D LED cube</b> <b>Katarina Zakova</b>		
12:30pm	<b>Lunch</b> Location: <b>Foyer</b>		
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1:30pm			
1:30pm	<b>Keynote VI: Mario Trapp: Internet of Things and Cyber Physical Systems – A Technological Basis for Industry 4.0</b> Location: <b>Room 4.E.007</b> Chair: <b>Cornel Samoila</b> , TRANSYLVANIA University of Brasov		
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2:00pm			
2:00pm	<b>FP7: Remote Control</b> Location: <b>Room 4.1.009</b> Chair: <b>Milos Srecko Nedeljkovic</b> , University of Belgrade, Faculty of Mechanical Engineering	<b>FP8: HMI / Cyber Security</b> Location: <b>Room 4.1.007</b> Chair: <b>Pablo Orduña</b> , DeustoTech, University of Deusto	<b>SP4: Online Engineering</b> Location: <b>Room 4.1.017</b> Chair: <b>Ishwar Singh</b> , McMaster University
-			
3:00pm			
	<b>A cloud-based, blended learning lab for PLC education</b> <b>Reinhard Langmann</b> , Matthias Coppenrath	<b>Study of Literature in Potential Of Facial Expression Recognition As Dynamic Balancing In Video Games</b> <b>Jurike V. Moniaga</b> , Oscar Liemena, Agus Prima, Muhammad Dimas Tri Rizqi	<b>e-LIVES – Extending e-Engineering along the South and Eastern Mediterranean Basin</b> <b>Manuel Gericota</b> , Guillaume Andrieu, Abdallah Al-Zoubi, Danilo Garbi-Zutin, Andre Fidalgo, Paulo Ferreira, Majd Batarseh
	<b>Environmental Sound Recognition with Classical Machine Learning Algorithms</b> Nikolina Jekic, <b>Andreas Pester</b>	<b>Towards Data-Driven Cyber Attack Damage and Vulnerability Estimation for Manufacturing Enterprises</b> Vinayak Ashok Prabhu, John Oyekan, Simon Eng, <b>Eng Woei Lim</b> , Ashutosh Tiwari	<b>A Support System For Information Management Oriented To The Study Of The Infant Neuro-Development</b> <b>Sergio Daniel Cano-Ortiz</b> , Yadisbel Martinez-Canete, Lienys Lombardia-Legra, Reinhardt Langmann, Harald Jacques
			<b>Development of an Automatic Assessment in Remote Experimentation over Remote Laboratory</b> <b>Abderrahmane Adda Benattia</b> , <b>Abdelhalim Benachenhou</b> , Mohammed Moussa
			<b>Management of Control Algorithms for Remote Experiments</b> <b>Matej Rábek</b> , Katarina Žáková
3:00pm	<b>Coffee Break</b> Location: <b>Foyer</b>		
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3:30pm			
3:30pm	<b>FP9: Remote Control</b> Location: <b>Room 4.1.009</b> Chair: <b>Jeremy Dylan Smith</b> , Virginia Tech	<b>SP5: Virtual &amp; Remote Labs</b> Location: <b>Room 4.1.017</b> Chair: <b>Sergio Daniel Cano-Ortiz</b> , Universidad de Oriente	<b>WiP: Work in Progress</b> Location: <b>Room 4.1.007</b> Chair: <b>Andreas Pester</b> , CUAS
-			
4:30pm			
	<b>A Multi-Agent System for Supervisory Temperature Control using Fuzzy Logic and Open Platform Communication Data Access</b> <b>Martha Kafuko</b> , <b>Tom Wanyama</b>	<b>Technology For Synthesis Of A Virtual Working Environment For Heterogeneous Territorially Distributed Teams</b> <b>Evgeny Vladimirovich Petrenko</b> , Fedor Georgievich Maitakov, Abdurashid Yarullaevich Yafasov	<b>The Application of the Remote Lab for Studying the Issues of Smart House Systems Power Efficiency, Safety and Cybersecurity</b> <b>Anzhelika Parkhomenko</b> , Artem Tulenkov, Aleksandr Sokolyanskii, Yaroslav Zalyubovskiy, Andriy Parkhomenko, Aleksandr Stepanenko
	<b>Practical Security Education on Combination of OT and ICT using Gamification Method at KOSEN</b> <b>Keiichi Yonemura</b> , Ryotaro Komura, Jun Sato, Masato Matsuoka	<b>A Reliability Assessment Model for Online Laboratories Systems</b> <b>Luis Felipe Zapata Rivera</b> , Maria M. Larrondo Petrie	<b>Work In Progress: Pocket Labs in IoT Education</b> Christian Madritsch, <b>Andreas Pester</b> , Thomas Klinger
	<b>SEPT Learning Factory Framework</b> Mo Elbestawi, <b>Dan Centea</b> , Ishwar Singh, Tom Wanyama	<b>Virtual Instrumentation Used in Engineering Education Set-Up of Hydraulic Pump and System</b> <b>Milos Srecko Nedeljkovic</b> , Djordje Svetislav Cantrak, Novica Zvonko Jankovic, Dejan Bogoljub Ilic, Milan Slavko Matijevic	<b>Productization of Smart Objects Using Low Cost Hardware and Open Source Software</b> <b>Gaurav Jayakumar</b> , Vivek Gowripeddi, Pooja Iranna, Anitha V, Shubham Mohapatra, Nikhil Janardhana, Yamuna Devi CR, Sowmya Mallikarjuna
		<b>Study of Remote Lab Growth to Facilitate</b>	

**Smart Education in Indian Academia**

**Venkata Vivek Gowripeddi**, Kalyan Ram  
Bhimavaram, Pavan J, Nithin Janardhan, Amrutha  
Desai, Shubham Mohapatra, Apurva Shrikhar,  
Yamuna Devi C R

- 4:30pm**    **Best Paper Award**  
-    Location: [Room 4.E.007](#)
- 5:00pm**    Chair: **Reinhard Langmann**, Duesseldorf University of Applied Sciences  
Chair: **Michael E. Auer**, Carinthia University of Applied Sciences
- 5:00pm**    **Closing of the Conference**  
-    Location: [Room 4.E.007](#)
- 5:30pm**    Chair: **Reinhard Langmann**, Duesseldorf University of Applied Sciences  
Chair: **Michael E. Auer**, Carinthia University of Applied Sciences

**Date: Saturday, 24/Mar/2018**

- 9:00am**    **Excursion to Cologne**  
-    Chair: **Harald Jacques**, Duesseldorf University of Applied Sciences
- 6:00pm**

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