

# ICELIE CONFERENCE 18 of October 2022

## The Arc

10:00	<p><b>Welcome and ICELIE opening</b>  <i>Larisa Dunai Dunai</i> Universitat Politecnica de Valencia (Spain) and <i>Kazuhiro Umetani</i> Okayama University (Japan)</p> <p>Invited speaker <b>Prof. Hamadou SALIAH-HASSANE</b></p>
10:30-11:26	<p><b>TOOLS AND PLATFORMS</b></p>
	<p><b>Simulation and Design of Control Systems: A Rapid Software Prototyping Class for Mechanical Engineering Students</b> <i>Martin Novak</i></p>
	<p><b>HeLiWi - Open source and low cost STEM approach for educational purposes</b> <i>Maarten Dequanter, Hendrik Dequanter, Lies Dequanter, Willem Dequanter, An Braeken</i></p>
	<p><b>Educational software-as-a-service based on JupyterHub and nbgrader running on Kubernetes</b> <i>Ruben De Smet, Steffen Thielemans, Jan Lemeire, An Braeken, Kris Steenhaut</i></p>
	<p><b>Integrating different modelling formalisms supporting co-design development of controllers for cyber-physical systems - a case study</b> <i>Grzegorz Bazydło, Aniko Costa, Luis Gomes</i></p>
	<p><b>Interactivity – A Key Element of Blended Learning with Flipped Classroom Approach</b> <i>Andrzej Ozadowicz</i></p>
	<p><b>Modeling of Six-Phase Induction Machine with Two Isolated Neutrals under One Open Phase Fault</b> <i>Wan Noraishah Wan Abdul Munim, Hang Seng Che, Mahdi Tousizadeh, Rahimi Baharom, Khairul Safuan Muhammad</i></p>
1:26-12:30	<p><b>HYBRID LEARNING</b></p>
	<p><b>All quiet on the COVID-19 front! – Real experience must be bought for power electronics beginners</b> –<i>Takaaki Ibuchi, Tsuyoshi Funaki</i></p>
	<p><b>Diploma Projects for LAB Equipment Rental - How Students Can Help University in the Covid-19 Era</b> <i>Waldemar Bauer, Katarzyna Grobler-Dębska, Edyta Kucharska, Jerzy Baranowski</i></p>
	<p><b>An Education Seminar Utilizing Both Experiments and e-Learning for Beginners in the Power Electronics Field</b> <i>Hidemine Obara, Atsuo Kawamura</i></p>
	<p><b>Hybrid and Online Learning during Covid-19; a show case study of Universitat Politecnica de Valencia</b> <i>Dunai Larisa, Nuria Aleixos, Francisco Eugenio Albert Gil, Benyamin Soleimani</i></p>
14:30-15:06	<p><b>ONLINE LEARNING</b></p>
	<p><b>Solution-Oriented Teaching Method of Electric Power Circuit Design for Online On-demand Video Streaming Lecture Course</b> <i>Kazuhiro Umetani, Masataka Ishihara, Eiji Hiraki</i></p>
	<p><b>Proposal of a DX method for lathe operation practical training with respect to motivation and an operative sense of agency</b> <i>Ken-ichi Tabei, Yukihiko ITO, Hiroshi SAITO, Masafumi KIMIZUKA, Hiroshi Hashimoto</i></p>
	<p><b>Differences in Visibility of Students' Proficiency by Grading Methods in Energy Electronics-related Lectures Based on DX Format</b> <i>Eiji Hiraki, Masataka Ishihara, Kazuhiro Umetani</i></p>
	<p><b>How to Teach Fractional Calculus Inspired Electronics Remotely?</b> <i>Waldemar Bauer, Edyta Kucharska, Jerzy Baranowski, Stavroula Kapoulea, Panagiotis Bertisias, Costas Psychalinos</i></p>
15:06-17:50	<p><b>SS1 NEW TOOLS AND METHODS FOR ELECTRIC MACHINES AND DRIVES AND POWER ELECTRONICS EDUCATION</b></p>
	<p><b>Bond graph-based teaching method to enhance the synergy of mechatronics in LabVIEW</b> <i>Zenan Guo, Peter Szemes, Peter Korondi</i></p>
	<p><b>Development of a web based laboratory system for mechatronical engineering students</b> <i>Gyula Korsoveczki, Benjamin Kovács, Dániel Tihanyi, Peter Korondi</i></p>
	<p><b>Software tool for training on electric motors condition monitoring</b> <i>Jose Antonino Daviu, Dunai Larisa</i></p>
	<p><b>A Power Electronics Laboratory Based on Red Pitaya Board</b> <i>Ciprian - Marian Stan, Dorin Neacsu</i></p>
	<p><b>Sensorless Based Gravity Torque Estimation and Friction Compensation for Surgical Robotic System</b> <i>Branesh M Pillai, Dileep Sivaraman, Songpol Ongwattanakul, Jackrit Suthakorn</i></p>
	<p><b>Sine Averaging and Duty Ratio Approach PWM Techniques at Low Switching Frequencies</b> <i>Pratik Kalka, A. V. Ravi Teja, Pankaj Kumar Meena, Neha Meena</i></p>
17:50-18:00	<p><b>Closing speech</b> <i>Kazuhiro Umetani</i></p> <p><b>Best paper Award</b></p>