



ELECTRICAL ENGINEERING AND MECHATRONICS CONFERENCE EEMC'17

Thursday, 9th of March 2017

Location: Faculty of Engineering, 4028 Debrecen, Ótemető u. 2-4.
Lecture hall U 003

Conference Chairman: Dr. Géza HUSI

PROGRAM:

I. MECHATRONICS APPLICATIONS IN CYBER-PHYSICAL SYSTEM SESSION (Lecture hall U 003)

Chairman: Dr. Péter Tamás SZEMES

10:00 - 10:20: Dr. José MACHADO (Portugal): Mechatronic Systems for Caregivers Support on the Context of Bedridden People Care

10:20 - 10:40: Husam Almusawi Abdulkareem (Iraq): Technological advancements in stroke hand rehabilitation devices: a review.

10:40 - 11:00: Timotei István ERDEI (Hungary): Augmented reality in Industry 4.0.

11:00 – 11:20: Muhammad Hashim QURESHI (Pakistan): Fire Simulations.

11:20 – 11:40: Péter MADARASI (Hungary): Aircraft control simulation and analyzing of stability area with labVIEW.

11:40 – 13:30: COFFE BREAK AND LUNCH

POSTER SESSION I. (In front of the lecture hall U 003)

Reviewer: Dr. Grzegorz KLAPYTA (Poland)

13:30 – 14:30:

- Robert VARGA, Ralph VERES (a.) (Romania)
- Pop Bogdan-Daniel, Deák Tamás (Romania)
- Indre Claudiu-Ioan (Romania)
- Negrău Dan-Claudiu (Romania)
- Szakacs Arnold (Romania)
- Ghideu Adrian (Romania)
- Varga Robert, Veres Ralph (b.) (Romania)
- Yahyaoui OUSSAMA (Algeria)

II. ADVANCED IN MECHATRONICS SESSION (Lecture hall U 003)

Chairman: Dr. Tibor VESSELÉNYI

14:30 – 14:50: Sanjib Kumar SAREN (India): Use of transition time Petri nets in modeling and simulation of flexible manufacturing cells - case study.

14:50 – 15:10: Róbert-Béla NAGY (Romania): Research regarding electro-oculogram based Human Computer Interface (HCI).

15:10 – 15:30: Nwachukwu Chikeziem OBINNA (Nigeria): LabVIEW Motion Planning and Tracking of an Industrial Robotic Manipulator (KUKA KR5 arc): Design, Modelling, and Simulating the Robot's Controller Unit.

15:30 – 15:50: Ermias Haile HADGU (United Arab Emirates): Measuring Dimensions of Printed Circuit Board using LabVIEW and a Webcam.

15:50 – 16:10: Dr. Csaba SZÁSZ (Romania): LabView-based Simulator for PV Cells Energy Efficiency Optimization.

16:10 – 16:30: Xénia Erzsébet TÓTH (Hungary): Pneumobile as complex mechatronics system.



ELECTRICAL ENGINEERING AND MECHATRONICS CONFERENCE EEMC'17

Friday, 10th of March 2017

Location: Faculty of Engineering, 4028 Debrecen, Ótemető u. 2-4.
Lecture hall U 003

Conference Chairman: Dr. Géza HUSI

PROGRAM:

I. NATIONAL SCIENTIFIC STUDENTS' ASSOCIATIONS SESSION (Lecture hall U 003)

Chairman: Kornél SARVAJ CZ

09:00 - 09:20: *Tamás KISS (Hungary)*: Quadcopter szimulációja LabVIEW környezetben. (in Hungarian language)

09:20 - 09:40: *Kristóf Balázs SIPOS (Hungary)*: Elektropneumatikus szelepveszteség mérő megalkotása. (in Hungarian language)

09:40 – 10:00 COFFE BREAK

II. NEURAL NETWORKS SESSION (Lecture hall U 003)

Chairman: Dr. János TÓTH

10:00 - 10:20: *Dr. Sahin YILDRIM (Turkey)*: Design of a proposed Hybrid Neural Network Predictor for Sound Analysis of Two Types of Cars.

10:20 – 10:40: *Viktória ÁCS (Hungary)*: NI myDAQ supported testing station for industrial sensors.

10:40 – 11:00: *Márk Attila MAGYARI (Hungary)*: Personal motion analyser in LabVIEW.

11:00 – 11:20: *Syeda Adila AFGHAN (Pakistan)*: Estimation of minimum output power threshold for energy harvesting module: an inspection of battery and charging parameters of cell phones.

11:20 – 11:40: *Faruk CETINKAYA (Turkey)*: A High Efficiency Industrial Speed Control Card Prototype for Low Power Direct Current Motors.

11:40 – 13:30: COFFE BREAK AND LUNCH

POSTER SESSION II. (In front of the lecture hall U 003)

Reviewer: Dr. Grzegorz KLAPYTA (Poland)

13:30 – 14:30:

- *Al-Challabi Bashir Mohammedf. (Iraq)*
- *Baris Tinaz (Turkey)*
- *Mahdi Poursalim (Iran)*
- *Ágnes Agonás (Hungary)*
- *Bence Kovács (Hungary)*
- *Péter Szabó (Hungary)*
- *Zsolt Molnár (Hungary)*
- *Guendouz Mohammed Nadjib (Algeria)*

II. LABVIEW APPLICATION SESSION (Lecture hall U 003)

Chairman: Emese SARVAJ CZ-BÁNÓ CZY

14:30 – 14:50: *Hamdi ABED (Palestine)*: Neural networks controller using LABView.

14:50 – 15:10: *Ayodele OLUFEMI SAMSON NKONGHO A. (Nigeria)*: Utilization of PID Controllers to Optimise Produce Preservation Quality to Efficiently meet Regulatory Standards in Sub-Saharan Africa.

15:10 – 15:30: *Mohammed ALHOWSAWI ABDULRHMAN (Saudi Arabia)*: Quadcopter.

15:30 – 15:50: *Adewale OSENI ORIYOMI (Nigeria)*: LabVIEW Simulation of a Spring-Mass Rotational Mechanical System.

15:50 – 16:10: *Dr. Sahin YILDRIM (Turkey)*: Designing and Trajectory Performing of a Mobile Robot That Service to the Patients in Hospitals.

15:50 – 16:10: *Dr. Krisztián SAMU (Hungary)*: Internet based light quality measurement.