

Program- AIS 2021

9:30	Registration	Óbuda University, Room Kálmán Kandó
9:45	Press Conference	Óbuda University, Room Kálmán Kandó
10:00	Opening Ceremony	Óbuda University, Room Kálmán Kandó
10:00	Welcome Speech I <i>György Györök</i>	General Chair of the Conference
10:15	Welcome Speech II <i>Zsolt Lehrner</i>	Székesfehérvár City Council
10:30	Plenary Section	Óbuda University, Room Kálmán Kandó
10:30	Opening of the Plenary Section	<i>Gyula Simon</i>
10:35	Plenary I: Analysis of Environmental Data on the Basis of Scientific, Expert Databases	<i>Éva Nagyné Hajnal</i>
11:00	Plenary II: Robotics in Laboratory Automation	<i>Károly Széll, Ádám Wolf</i>
11:25	<i>Closing of the Plenary Section</i>	<i>Gyula Simon</i>
12:00	Lunch Break	Óbuda University, Room 27
13:00	Oral and Poster Sessions	Óbuda University, Room Kálmán Kandó
13:00	Applied Informatics I.	Room Kálmán Kandó
14:15	Poster Sessions and Coffee Break	Aula
14:45	Applied Informatics II.	Room Kálmán Kandó
16:00	Closing Ceremony	Óbuda University, Room Kálmán Kandó

Detailed Program

ORAL SESSION I.		
13:00	Applied Informatics I.	Room Kálmán Kandó
	<i>Chair: Tamás Jancsó</i>	
13:00	The e-Learning – Between the Path to Modernity and Emergency Stairs	Levente Dimén and Borşan Tudor
13:15	Structural Startability of Reaction Pathways with Petri Net Analysis	Rozália Lakner
13:30	Evaluation of a genetic algorithm based image approximation method	Gergely Vakulya
13:45	Using Sector Based Linear Regression in Epidemic Data	Gábor Nagy
14:15	Poster Sessions P1-P3 and Coffee Break	Aula
	<i>Chair: Gyula Simon</i>	
Session P1: Robotics and Industrial Applications		
	Hand Gesture Controlled Robot	Dávid Bárándi and Károly Széll
	Dynamic arc stabilization options for Gas Metal Arc MIG / MAG robot welding	István Elek Kiss and Károly Széll
	Mobile Robot Environment for SLAM	Albin Nátrán and Károly Széll
	Automation of EDM Machines	Márk Liszi and Károly Széll
	Monitoring of the State of a Person at Hazardous Work	Olga Shvets, Bauyrzhan Smakanov and Zhanerke Bakatbayeva

Session P2: Geodesy and Geoinformatics	
Establishment of GNSS calibration network	Eszter Duleba, Gergely László and Zoltán Tóth
Increasing urban development efficiency through land value capture mechanisms	János Katona and Andrea Pődör
Application development supporting orthophoto documentation	Gergely László, Gabriella Bor, Grégory Lucas and Csaba Lénárt
Session P3: Applied Informatics	
Smart pedestrian crossing for the blind and visually impaired	Dávid Fischer, Mátyás Marx and Monika Pogátsnik
UAV based navigation system for forest fires monitoring	Daniyar Kaliyev, Olga Shvets and György Györök
The applicability of ROS in the use of unmanned combat aerial vehicles	János Sári and Károly Széll
Acceleration Measurement Experiments in Dairy Cattle	Éva Hajnal, Gergely Vakulya, Péter Udvardy and Levente Kovács
Photovoltaic Panel Failure Prediction Using a Thermal Imaging Camera	Bertalan Beszédes and György Györök
Diverse approach of Cybersecurity culture in Education	Judit Módné Takács, Nikoletta Tolner and Monika Pogátsnik
Analysis of a Prime-Representing Constant	Gábor Nagy

ORAL SESSION II.

14:45 Applied Informatics II. Room Kálmán Kandó

Chair: Gergely Vakulya

- 14:45 Forced facial expression – the effect of different emotions and temporal patterns Jozsef Halasz, Erika Peukert, Edina Lukacs and Aniko Mahler
- 15:00 Review of knowledge base according to Information Technology Safety Awareness Anikó Szarvák and Valéria Póser
- 15:15 Methods for High Precision Shutter Speed Measurements Márk Rátosi, Gergely Vakulya and Gyula Simon
- 15:30 Error detection methods in photogrammetry Tamas Jancso

16:00 Closing Ceremony and Reception Room Kálmán Kandó

Festival of Hungarian Science

November 11, 2021



AIS 2021

16th International Symposium on Applied Informatics and Related Areas



ÓBUDAI EGYETEM
ALBA REGIA MŰSZAKI KAR

Óbuda University
Alba Regia Technical Faculty



Székesfehérvár

<http://ais.amk.uni-obuda.hu/>