Final Program

AIS 2022 Final Program (**pdf**)

9:30	Registration	Óbuda University, Room Kálmán Kandó
9:45	Press Conference	Room Kálmán Kandó
10:00	Opening Ceremony	Room Kálmán Kandó
10:00	Welcome Speech I *György Györök*	General Chair of the Conference
10:15	Welcome Speech II *András Cser-Palkovics*	Székesfehérvár City Council
10:30	Plenary Section	Room Kálmán Kandó
10:30	Opening of the Plenary Section	*József Halász*
10:35	Plenary I: How US spy satellite imagery from the 1960s helps us monitor the changing environment	*Gábor Péter Molnár*
11:00	Plenary II: Robust localization methods using voting algorithms	*Gyula Simon*
11:25	*Closing of the Plenary Section*	*József Halász*
12:00	Lunch Break	Room 27
13:00	Oral and Poster Sessions	
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	Room Kálmán Kandó

Detailed Program

	ORAL Session I.	
13:00	Applied Informatics I.	Room Kálmán Kandó
	Chair: Tamás Jancsó	
13:00	Solar flare effect on microelectronic circuits assessed for Wigner's disease	László Sajó-Bohus and Monika Pogátsnik
13:15	Drought monitoring mapping by using satellite remote sensing: Study Case	Malgorzata Verőné Wojtaszek, Erick Noboa and György Eigner
13:30	Long Term Rumen Temperature Analysis of Dairy Cattle with Help of Bolus Sensor	Éva Hajnal, Gergely Vakulya and Péter Udvardy
13:45	Semi-Automatic Detection and Tracking of Growing Mushrooms on Image Sequences	Gyula Simon, Gergely Vakulya, Sándor Tarsoly and Péter Galambos
14:15	Poster Sessions P1-P4 and Coffee Break	Aula
	Chair: Gergely Vakulya	
	Session P1: Industrial and Embedded Systems	

Design and Requirement Analysis of an Outdoor Autonomous Mobile Manipulator	Zoltán Szilágyi and Csaba Hajdu
Artificial experimental environment for indoor plant cultivation	Bertalan Beszédes
Design of a Reliable Portable Power Supply Chain for an Embedded System	Bertalan Beszédes
Capacitive sensor for gaseous substances, from old to new	György Györök, Olga Shvets, Margit Makó and Borbála Györök
The concept of Visible Light Communication technology in life support parameters control systems	Aslima Alimhanova, Svetlana Grigoryeva and György Györök
Indoor LED lighting control based on embedded systems	Svetlana Grigoryeva and Anar Bolatova
Development and Prototype Production of a Full-spectrum LED Lighting Driver Circuit	Bertalan Beszédes and Bence Márta
Artificial Lighting Experimental Environment in Agriculture for Seed Germination	Bertalan Beszédes, Bence Márta and Péter Dr. Udvardy

Simulation and Analysis of Route Plans for Autonomous Guided Vehicle Systems	Rozália Lakner
Genetic algorithm based image approximation with geometrical shapes	Gergely Vakulya
A new laser stripe detection algorithm for 3D scanning applications	Albina Kadyroldina, Assel Kussaiyn-Murat, Alexander Krasavin and Darya Alontseva
Stabilization of environmental conditions to improve the performance of a mobile application for the state of the driver monitoring	Olga Shvets, Bauyrzhan Smakanov and György Györök
Autonomous life support using intelligent analysis in Kazakhstan	Olga Shvets, Assel Naizabayeva and Márta Seebauer
Robust Control Design for Quadcopter for Path Following in Monitoring Tasks	Daniyar Kaliyev, Olga Shvets and György Györök
Solving Olympiad Problems Via Lagrange Multipliers	József Borbély
Boardgame Recommendation System with Collaborative Filtering	Vanessza Tőke and Rozália Lakner
Virtual Reality Game Development with External Hand Motion Sensor	Erik Dobra and Éva Hajnal

Lever arm calculating algorithm for efficient and precise vector determinations	Gergely László, Gábor Péter Molnár and Gabriella Bor
Comparison of lever arm determination methods in terms of their effect of the accuracy of aerial triangulation	Ágnes Krausz and Gergely László
The Geodatabase Design of Cemetery Cadastre of Saint Vince Home of the Sisters of Charity in Csákvár	Regina Hanna Balaton and Andrea Pődör
Conversion of Laplace equation from the spherical coordinate description to Cartesian coordinate system	Gibárt Gilányi and Gábor Molnár
Comparative Analysis of several contour line generation methods and softwares	Gábor Nagy and Zsuzsanna Ungvári

Motivation potential in higher education after covid-19 based on personality traits	Timea Bekk and Monika Pogátsnik
The changes in the concept and content of the mechanical engineer training from the 3rd industrial revolution to industry 4.0	Csaba Bráda and Monika Pogátsnik
Online examination from the point of view of teachers	Nikoletta Tolner, Judit Módné Takács, András Dávid and Monika Pogatsnik
Entrepreneurial activity and ecosystem in Hungary	Ildikó Petőné Csuka
Promotion of dual training form and its' tools at a large company	Zsuzsanna Felícia Pretz and Éva Takács

ORAL Session II.

14:45	**Applied Informatics II.**		**Room Kálmán Kandó**
	Chair: Éva Hajnal		
14:45	Computerized latency data correspond with Iowa Gambling Task responses in healthy individuals	Erika Peukert, Anikó Mahler and József Halász	
15:00	Image Classification Methods to Detect the Growth of Industrial Areas	Tamás Jancsó, Andrea Pődör, Éva Nagyné Hajnal and Rezső Nagy	
15:15	LEGO robotics at service of education	Péter Udvardy	
15:30	Comparative Analysis of Land Value Capture Tools in Europe	János Katona and Andrea Pődör	

16:00	**Closing Ceremony and Reception**	**Room Kálmán Kandó**