AQTR 2024 – Student Forum Program

Session 1

Saturday, May 18th, 2024.
9.00 – 12.30

Chair session.
    Pop Alexandru

Place

    Bariţiu street no. 4-6, UTCN Hub

Paper ID	Papers		
109	**Authors**	*Popa Razvan-Andrei, Naşcu Ioana*	9:00 – 9:10
	Title	Discrete model predictive control using Laguerre function networks	2 min Q & A
110	**Authors**	*Sucea Ionut Andrei, Naşcu Ioana*	9:12 – 9:22
	Title	PID control strategies for a Multi Input Multi Output Rotary Tablet Press System	2 min Q & A
112	**Authors**	*Dafinoiu Raluca-Andreea, Naşcu Ioana*	9:24 – 9:34
	Title	PID control for intravenous depth of anesthesia	2 min Q & A
115	**Authors**	*Nicoară Mihai, Naşcu Ioana*	9:34 – 9:44
	Title	Linear Quadratic Regulator Control of an Inverted Pendulum on a Cart	2 min Q & A
93	**Authors**	*Enyedi Ervin, Harja Gabriel*	9:46 – 9:56
	Title	A comparative study of control strategies applied to the Ball and Plate physical and virtual system	2 min Q & A
14	**Authors**	*Diana-Cristina Borza, Ana Rednic, Radu Gabriel Dănescu*	10:00 – 10:10
	Title	Design and Implementation of an Autonomous Fire Extinguishing Robot	2 min Q & A
94	**Authors**	*Ioan Laurentiu Popa, Levente Tamas*	10:12 – 10:22
	Title	Application of Time-of-Flight Technology for Mobile Robot Perception and Navigation	2 min Q & A
113	**Authors**	*Manole Tudor*	10:24 – 10:34
	Title	Developing an autonomous drone for early detection of forest fires	2 min Q & A
118	**Authors**	*Luci Alexandru Cosmin*	10:36 – 10:36
	Title	Tracking complex sequences of trajectories by a four-wheeled mecanum robot	2 min Q & A

Session 2

Saturday, May 18th, 2024.
9.00 – 12.30

Chair session.
    Cosmina Corcheș

Place
    Bariţiu street no. 4-6, UTCN Hub

Paper ID	Papers		
111	**Authors**	*Corb Bogdan-Ștefan, Crișan Alexandra-Cristina*	9:00 – 9:10
	Title	Fire protection system	2 min Q & A
116	**Authors**	*Băliban David-Simeon*	9:12 – 9:22
	Title	Smart Plant Irrigation with Blynk Server: Wireless Control	2 min Q & A
117	**Authors**	*Balaban Raluca*	9:24 – 9:34
	Title	Manual assembly line efficiency monitoring application	2 min Q & A
119	**Authors**	*Aldea Robert, Stefan Iulia, Pop Lia*	9:34 – 9:44
	Title	VR for Education	2 min Q & A
101	**Authors**	*Popescu Adelin*	9:46 – 9:56
	Title	Enhancing Cognitive Reaction Skills Through an Integrated Reaction Time Training Game	2 min Q & A
102	**Authors**	*Bărdășan Andreea Maria*	10:00 – 10:10
	Title	Web application for route planning within and outside localities	2 min Q & A
103	**Authors**	*Hritcu Luca, Sita Valentin Ioan*	10:12 – 10:22
	Title	Fire detection system	2 min Q & A
97	**Authors**	*Hădărău Cristian-Ioan, Mureșan Cristina-Ioana*	10:24 – 10:34
	Title	Advanced control strategies for a quarter car suspension model	2 min Q & A
100	**Authors**	*Țibrea Daria, Mureşan Cristina Ioana, Vlad Brianna Maria*	10:36 – 10:36
	Title	IntelliView Guardian Monitoring Health System	2 min Q & A

Session 3

Paper ID	Papers		
95	**Authors**	***Chiriac Daria-Georgiana**, *Dulf E.H.*	9:00 – 9:10
	Title	Comparative Analysis of EMG signals Filtration Techniques for Prosthetic Arm Control	2 min Q & A
96	**Authors**	***Axînia Maria-Izabela**, *Dulf E.H., Danku Alex Ede*	9:12 – 9:22
	Title	Optimization of Ursolic acid production with models created via Artificial Neural Networks and Adaptive Neuro-Fuzzy Interface System	2 min Q & A
104	**Authors**	***Dobocan Diana-Mihaela**, *Dulf E.H., Silaghi Alina*	9:24 – 9:34
	Title	Deep Neural Networks for Thyroid Nodule Diagnosis and Evaluation from Ultrasound Images: Semantic Segmentation and TI-RADS Implementation	2 min Q & A
105	**Authors**	***Todea Andreea-Roxana**, *Dulf E.H., Pop Raluca Maria*	9:34 – 9:44
	Title	Automated Tool for Estrous Cycle Stage Identification in the Context of Precocious Puberty	2 min Q & A
106	**Authors**	***Şanta Delia Ramona**, *Dulf E.H., Orzan Rareş*	9:46 – 9:56
	Title	Enhanced Pancreatic Cancer Diagnosis and Segmentation through Deep Learning from Endoscopic Ultrasound Images	2 min Q & A
107	**Authors**	*Evelin-H. Dulf,* **Andreea R.Todea**, *Alexandru G. Berciu*	10:00 – 10:10
	Title	Comparison of Myocardial Fibrosis Evaluation using Magnetic Resonance Imaging and Computer Tomography	2 min Q & A
114	**Authors**	***Papiu Cristian-F.**, *Berciu Alexandru-G., Mihaly Vlad, Dulf E.H.*	10:12 – 10:22
	Title	SafeRoad: Vehicle Detection and Speed Estimation using Kalman Filter and Euclidian Distance	2 min Q & A
98	**Authors**	***Tudor Ada M.**, *Maliţa Alin C., Mureşan Cristina I.*	10:24 – 10:34
	Title	Adaptive PI Controller for the Hemodynamic System using the MIT rule	2 min Q & A
99	**Authors**	***Maliţa Alin C.**, *Mureşan Cristina I., Tudor Ada M.*	10:36 – 10:36
	Title	Model Reference Adaptive Control Of Bispectral Index Signal During Anesthesia	2 min Q & A
108	**Authors**	***Botezat Răzvan-Ioan**	10:38 – 10:48
	Title	Ball-and-Plate Control System: Design and Implementation	2 min Q & A