

AQTR 2024 – Student Forum Program

Session 1

Saturday, May 18 th , 2024. 9.00 – 12.30		
Chair session. Pop Alexandru		
Place Barițiu street no. 4-6, UTCN Hub		
Paper ID	Papers	
109	Authors <i>Popa Razvan-Andrei, Nașcu Ioana</i>	9:00 – 9:10
	Title Discrete model predictive control using Laguerre function networks	2 min Q & A
110	Authors <i>Sucea Ionut Andrei, Nașcu Ioana</i>	9:12 – 9:22
	Title PID control strategies for a Multi Input Multi Output Rotary Tablet Press System	2 min Q & A
112	Authors <i>Dafinoiu Raluca-Andreea, Nașcu Ioana</i>	9:24 – 9:34
	Title PID control for intravenous depth of anesthesia	2 min Q & A
115	Authors <i>Nicoară Mihai, Nașcu Ioana</i>	9:34 – 9:44
	Title Linear Quadratic Regulator Control of an Inverted Pendulum on a Cart	2 min Q & A
93	Authors <i>Enyedi Ervin, Harja Gabriel</i>	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 <i>Diana-Cristina Borza, Ana Rednic, Radu Gabriel Dănescu</i>	10:00 – 10:10
	Title Design and Implementation of an Autonomous Fire Extinguishing Robot	2 min Q & A
94	Authors <i>Ioan Laurentiu Popa, Levente Tamas</i>	10:12 – 10:22
	Title Application of Time-of-Flight Technology for Mobile Robot Perception and Navigation	2 min Q & A
113	Authors <i>Manole Tudor</i>	10:24 – 10:34
	Title Developing an autonomous drone for early detection of forest fires	2 min Q & A
118	Authors <i>Luci Alexandru Cosmin</i>	10:36 – 10:36
	Title Tracking complex sequences of trajectories by a four-wheeled mecanum robot	2 min Q & A

Session 2

<p>Saturday, May 18th, 2024. 9.00 – 12.30</p> <p>Chair session. Cosmina Corcheș</p> <p>Place Barițiu street no. 4-6, UTCN Hub</p>			
Paper ID	Papers		
111	Authors	<i>Corb Bogdan-Ștefan, Crișan Alexandra-Cristina</i>	9:00 – 9:10
	Title	Fire protection system	2 min Q & A
116	Authors	<i>Băliban David-Simeon</i>	9:12 – 9:22
	Title	Smart Plant Irrigation with Blynk Server: Wireless Control	2 min Q & A
117	Authors	<i>Balaban Raluca</i>	9:24 – 9:34
	Title	Manual assembly line efficiency monitoring application	2 min Q & A
119	Authors	<i>Aldea Robert, Stefan Iulia, Pop Lia</i>	9:34 – 9:44
	Title	VR for Education	2 min Q & A
101	Authors	<i>Popescu Adelin</i>	9:46 – 9:56
	Title	Enhancing Cognitive Reaction Skills Through an Integrated Reaction Time Training Game	2 min Q & A
102	Authors	<i>Bărdășan Andreea Maria</i>	10:00 – 10:10
	Title	Web application for route planning within and outside localities	2 min Q & A
103	Authors	<i>Hritcu Luca, Sita Valentin Ioan</i>	10:12 – 10:22
	Title	Fire detection system	2 min Q & A
97	Authors	<i>Hădărău Cristian-Ioan, Mureșan Cristina-Ioana</i>	10:24 – 10:34
	Title	Advanced control strategies for a quarter car suspension model	2 min Q & A
100	Authors	<i>Țibrea Daria, Mureșan Cristina Ioana, Vlad Brianna Maria</i>	10:36 – 10:36
	Title	IntelliView Guardian Monitoring Health System	2 min Q & A

Session 3

Saturday, May 18 th , 2024. 9.00 – 12.30 Chair session. Danku Alex Place Barițiu street no. 4-6, UTCN Hub			
Paper ID	Papers		
95	Authors	<i>Chiriac Daria-Georgiana, Dulf Eva Henrieta</i>	9:00 – 9:10
	Title	Comparative Analysis of EMG signals Filtration Techniques for Prosthetic Arm Control	2 min Q & A
96	Authors	<i>Axînia Maria-Izabela, Dulf Eva Henrieta, Danku Alex Ede</i>	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	<i>Dobocan Diana-Mihaela, Dulf Eva-Henrietta, Silaghi Alina</i>	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	<i>Todea Andreea-Roxana, Dulf Eva Henrietta, Pop Raluca Maria</i>	9:34 – 9:44
	Title	Automated Tool for Estrous Cycle Stage Identification in the Context of Precocious Puberty	2 min Q & A
106	Authors	<i>Șanta Delia Ramona, Dulf Eva-Henrietta, Orzan Rareș</i>	9:46 – 9:56
	Title	Enhanced Pancreatic Cancer Diagnosis and Segmentation through Deep Learning from Endoscopic Ultrasound Images	2 min Q & A
107	Authors	<i>Evelin-H. Dulf, Andreea R.Todea, Alexandru G. Berciu</i>	10:00 – 10:10
	Title	Comparison of Myocardial Fibrosis Evaluation using Magnetic Resonance Imaging and Computer Tomography	2 min Q & A
114	Authors	<i>Papiu Cristian-F., Berciu Alexandru-G., Mihaly Vlad, Dulf Eva-H.</i>	10:12 – 10:22
	Title	SafeRoad: Vehicle Detection and Speed Estimation using Kalman Filter and Euclidian Distance	2 min Q & A
98	Authors	<i>Tudor Ada M., Malița Alin C., Mureșan Cristina I.</i>	10:24 – 10:34
	Title	Adaptive PI Controller for the Hemodynamic System using the MIT rule	2 min Q & A
99	Authors	<i>Malița Alin C., Mureșan Cristina I., Tudor Ada M.</i>	10:36 – 10:36
	Title	Model Reference Adaptive Control Of Bispectral Index Signal During Anesthesia	2 min Q & A
108	Authors	<i>Botezat Răzvan-Ioan</i>	10:38 – 10:48
	Title	Ball-and-Plate Control System: Design and Implementation	2 min Q & A