



International Conference on Artificial Intelligence and Smart Vehicle (ICAISV-2023)
Department of Mathematics and Computer Science
Amirkabir University of Technology
Tehran, Iran
<https://aismartvehicle.aut.ac.ir/>



Wednesday (May, 24)

Bahman Hall (Central Amphitheater of Amirkabir University of Technology)

<https://meetings2.aut.ac.ir/smart1/>

Time	Topic			Presenter		
8:00-9:00	Reception (Physical)					
9:00-11:00	Welcome Session 1 (Physical) with Industry and Academic Invited Speakers			Academic & Industrial Talks		
11:00-11:30	Break-1					
	Bahman Hall (Central Amphitheater of Amirkabir University of Technology) https://meetings2.aut.ac.ir/smart1/		Fajr Hall (Central Amphitheater of Amirkabir University of Technology) https://meetings2.aut.ac.ir/smart2/		Room 313 (Department of Mathematics and Computer Science) https://meetings2.aut.ac.ir/smart3/	
11:30-12:30	Session 2 Hybrid		Session 3 Hybrid		Session 4 Hybrid	
Time	Topic	Presenter(s)	Topic	Presenter(s)	Topic	Presenter(s)
11:30-11:50	Clustering of Urban Traffic Patterns by K-Means and Dynamic Time Warping: Case Study	Sadegh Etemad Raziyeh Mosayebi Tadeh Alexani, et al.	A novel MEC-enabled blockchain-based system architecture for smart vehicles data privacy: ...	Komeil Moghaddasi Shakiba Rajabi	Vehicle Insurance Fraud Detection using Supervised Neural Network Model	Isha Agarwal H.C Taneja Anjana Gupta
11:50-12:10	A Saturation Modification Image Enhancement Method for Low Light Color Images	Sepideh Khormaeipour Fateme Shakeri	Convolutional Neural Network and Long Short Term Memory on Inertial Measurement Unit sensors for Gait Phase Detection	Mohammad ali Ghiasi Mohsen Bahrami Ali Kamali Egoli et al.	Using Deep Learning Techniques for Quality Control in Automotive Industry	Morteza Moradi
12:10-12:30	Driver Cellphone Usage Detection Using Wavelet Scattering and Convolutional Neural Networks	Ali Besharati Ali Nahvi Serajeddin Ebrahimiyan	Online vehicle detection using gated recurrent units	Arezoo Sedghi Esmat Rashedi Maryam Amoozegar Fateme Afsari	How do drivers react after receiving forward collision warnings?	Amir Kamyab Moghaddam Amirmasoud Hamedi Hamed Emami
12:30-13:30						

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Time	Topic			Presenter		
13:00-14:00	Session 5 Keynote Speech (Physical): Smart Roads			Dr. Hamzeh Zakeri		
14:00-15:00	Session 6 Keynote Speech (Remote): Local and Global Contextual Features Fusion for Pedestrian Intention Prediction			Dr. Mahdi Rezaei		
15:00-15:30	Break-2					
15:30-16:30	Session 7 Keynote Speech (Remote): Long-Tail Learning and Out-of-Distribution Detection in Autonomous Driving			Dr. Nima Mohajerin		
16:30-17:30	Session 8 Keynote Speech (Remote): Resilience of connected vehicles: a control-theoretic approach			Dr. Mohammad Pirani		
17:30-17:50	Break-3					
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17:50-18:50	Session 9 Hybrid		Session 10 Hybrid		Session 11 Hybrid	
Time	Topic	Presenter(s)	Topic	Presenter(s)	Topic	Presenter(s)
17:50-18:10	Improving Safe Driving with Diabetic Retinopathy Detection	Niusha Sangsefidi Saeed Sharifian	Real-time mobile mixed-character license plate recognition via deep learning convolutional neural network	Gholamreza Karimi Zahra Alimohammadi Amirhossein Najafi	Deep learning-based SOH estimation of Li-ion batteries in electrical vehicles: Current achievement and progress	Leila Amani Amir Sheikahmadi
18:10-18:30	Stacking Ensemble Learning For Traffic Accident Severity Prediction	Hazhir Salari Seyed Amin Hosseini Seno	Evaluation of Drivers' Hazard Perception in Simultaneous Longitudinal and Lateral Control of Vehicle Using ...	Mohammad Pashae Ali Nahvi	State-Of-The-Art Analysis of the Performance of the Sensors Utilized in Autonomous Vehicles ...	Amir Meydani
18:30-18:50	Roll stability enhancement of a 3-axle heavy vehicle by Active Roll and AFS control	Erfan Sabzalian Mahyar Naraghi Maryam Ghassabzadeh Sarvazdi	Driver Identification by An Ensemble of CNNs Obtained from Majority-Voting Model Selection	Rouhollah Ahmadian Mehdi Ghatee Johan Wahlstrom	Semantic Segmentation using Events and Combination of Events and Frames	Mehdi Ghasemzadeh Saeed Bagheri Shouraki

Thursday (May, 25)						
	Bahman Hall (Central Amphitheater of Amirkabir University of Technology) https://meetings2.aut.ac.ir/smart1/		Fajr Hall (Central Amphitheater of Amirkabir University of Technology) https://meetings2.aut.ac.ir/smart2/		Room 313 (Department of Mathematics and Computer Science) https://meetings2.aut.ac.ir/smart3/	
8:00-11:00	Session 12 Hybrid		Session 13 Hybrid		Session 14 Hybrid	
Time	Topic	Presenter(s)	Topic	Presenter(s)	Topic	Presenter(s)
8:00-8:20	Driver Identification Using Face Liveness Detection	Seyed Ali Mousavi Fard Seyed Saeed Hayati	A Bibliometric Analysis On Artificial Intelligence and Smart Vehicles	Durga Prasad Singh Samanta B.C.M Patnaik Ipeeta Satpathy Iahanzeb Akbar	Improving speech emotion recognition using audio transformer and features fusion	Mehdi Ezoji Fateme Mehrpouyan
8:20-8:40	A survey on usage of smartphone accelerometer sensor in intelligent transportation systems	Hamid Reza Eftekhari	A Survey on Fraud Detection in Car Insurance	Behnam Yousefimehr Mehdi Ghatee	An Overview of Blockchain-based V2X System	Shabnam Bohlooli Seyyed Amir Asghari Mohammadreza, et al.
8:40-9:00	Deep learning-based concrete crack detection using YOLO architecture	Elham Nabizadeh Anant Parghi	Deep Parallel Self-Organizing Maps for Visual Classification	Habib Izadkhal Mahsa Famil	Evaluating Influential Parameters on Camera Calibration in Close ...	Mehrtash Manafifard Fateme Hosseini
9:00-9:20	Generating Control Command for an Autonomous Vehicle Based on Environmental Information	Fateme Azizabadi Farahani Saeed Bagheri Shouraki et al.	An ILP Model and Optimal Placement Strategy for Electric Vehicle Charging Stations; Case Study of Tehran's P...	Alireza Rajabi Ranjbar Morteza Mollajafari Pooriya Sanaie	Modeling and Understanding the Surrounding of an Autonomous Vehicle	Zahra Dastjerdi Saeed Bagheri Shouraki Fateme Azizabadi
9:20-9:40	Fractal-Based Spatiotemporal Predictive Model for Car Crash Risk Assessment	Behzad Zakeri Pouya Adineh	Combining SVM with an efficient feature selection mechanism to predict the stock-market trend	Masoomah Pardakhti Farnaz Hooshmand	Cross-modal Image-Text Retrieval Using Support Vector Machine	Ali Goudarzi Fateme Taheri Kambiz Rahbar
9:40-10:00	Learning-based One-bit DoA Estimation with Single Snapshot	Yasin Azhdari Mahmoud Farhang	Exploring the Use of Efficient Deep Learning Algorithms for Lower Grade Gliomas Cancer Image Segmentation: ...	Amirreza Babaahmadi Farzaneh Fallahpour	Forecasting the price of cryptocurrencies in the market using chaotic particle swarm algorithm and neural network	Parisa Tayeb Naeini Jamal Gholami Ahangaran
10:00-10:20	Routes analysis and dependency detection based on traffic volume:...	Maryam Esmaeili Ehsan Nazerfard	User Sentiments of ChatGPT Natural Language Processing AI	Aftab Ara Affreen Ara	Matching satellite images using key point classification	Fateme Naserizadeh Ali Jafari
10:20-10:40	Road Sign Classification using Transfer Learning and Pre-Trained CNN Models	Seyed Hossein Hosseini Foad Ghaderi Behzad Moshiri Mojtaba Norouzi	Applying reinforcement learning in a problem of assigning trucks to origin-destination demands under uncertainty conditions	Zeynab Sadat Tabatabaee Alavi Hadi Mosadegh	Identifying the applications, requirements and solutions for the development of artificial intelligence in modern automotive services ...	Mohammad Jafari Seyed Mohammad Mahmoudi Mahsa Pishdar
10:40-11:00	Co-evolving Partial Weights and Architecture of Deep Convolutional Neural Networks for Image Classification	Zaniar Sharifi Khabat Soltanian Ali Amiri	Safety and Reliability Assessment of Systems in Autonomous and Non-Autonomous Vehicles Industry: ..	M Amini Moghaddam		
11:00-11:30	Break-4					

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Time	Topic		Presenter			
11:30-12:30	Closing Session (Physical) with Industry and Academic Invited Speakers		Academic & Industrial Talks			
Workshops						
	Bahman Hall (Central Amphitheater of Amirkabir University of Technology) https://meetings2.aut.ac.ir/smart1/					
Time	Topic	Presenter	Topic	Presenter	Topic	Presenter
13:30-18:30	Workshop CODE: WDD (Designing an intelligent system for detecting driver drowsiness based on brain electrical signals analysis)	Dr. Golnaz Baghdadi	-		-	