

1st International Conference on Cognitive Computing, Intelligence and Data Science Applications

December 27-28, 2024

Aydin University, Istanbul, Turkey



Università
di Catania



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Conference Program

CCIDSA-2024

1st International Conference on Cognitive Computing,
Intelligence and Data Science Applications

December 27-28, 2024

Istanbul Aydin University,

Istanbul, Turkey

DAY-1: In-Person Sessions

December 27, 2024

**Conference Venue: Orange Hall, 1st Floor, Halit Aydin Campus, D Block,
Istanbul Aydin University, Kucukcekmece, Besyol, Istanbul, Turkey.**

All timing follows Turkish Standard Time, GMT+3

09:00 - 09:15	Conference Opening Vice Rector Prof. Dr. Ali Sinağ, Prof. Dr. Ali Güneş
09:15 - 10:00	Keynote: Dr. Ercan Oztemel Google Meet Link-1
10:00 - 10:45	Keynote: Dr. Fatemeh Golpayegani
10:45 - 11:00	Coffee Break
11:00 - 12:20	Technical Session – 1
12:20 - 14:30	Lunch Break
14:30 – 16:00	Technical Session – 2

DAY-2: Online Sessions

December 28, 2024

All timing follows Turkish Standard Time, GMT+3

[Google Meet Link-2](#)

09:00 - 11:00	Technical Session – 3
11:00 – 11:30	Keynote: Dr. Vasileios Paliktzoglou
11: 30 – 11:40	Break
11:40 - 13:40	Technical Session – 4
13:40 – 14:00	Break
14:00 - 16:00	Technical Session – 5

16:00 – 16:15

Conference Closing

Technical Session – 1
Session Chairs: Dr. Ali Güneş

ID	Author/Title
35	Kök, Kıvanç; Hanoğlu, Lütfü; Eryaşar, Melisa Leveraging text mining algorithms for PubMed abstracts-based detection of key concepts and potential topics in Huntington's disease research
10	Aydin, Cem ; Alwer, Abdulkader Defect-detection in casting products using grid search augmented PCA CNN hybrid model
32	Bilal, Hazrat; Shafique, Ali; Saleem, Arslan; Bendechange, Malika Improving Heart Disease Classification through Artificial Neural Networks
56	Abedrabbo, Ibrahim; Alazzawi, Esraa Mohammed ; Hameed, Alaa Ali; Jamil, Akhtar; Soleimani, Faezeh; Tareq , Wadhah Zeyad Optimizing Neural Networks for Edge Devices via Structural Pruning: An Empirical Study with DepGraph

Technical Session – 2
Session Chairs: Dr. Ali Okatan

11	Gumus, Samet A Two-Step Deep Learning Approach for Estimating Facial Age in Edge Computing Services Infrastructure
12	Gumus, Samet; Güneş, Ali Uncertainty Aware Abnormality Detection with Directional Bit-Plane Features and Stacked Autoencoder in Chest X-Ray Images
17	Kurtbaş, Muhammet; Sayar, Ahmet Comparative performance analysis of widely known IaaS service providers
14	Sayar, Ahmet Efficient Point-Set Pattern Matching Using Chained MapReduce
33	Rahman, Tuqa; Shayea, Ibraheem; Uzun-Per, Meryem Enhancing Flight Recommendation Systems with Large Language Models and Retrieval-Augmented Generation

Technical Session – 3
Session Chairs: Dr. Anastassia Gharib

2	Alzoubi, Yehia AI-Powered Watermarking Techniques: Unveiling Potentials and Addressing Challenges
7	Demir, Ahmet García Márquez, Fausto Pedro; Acaroglu, Hakan; Najafi, Ataberk Improving Defect Detection in Solar PV Modules through Data Balancing and 2D CNN Techniques
22	Iraqi, Basma Benhiba, Lamia; Janati Idrissi, Mohammed Abdou Data analytics use cases' prioritization: A case study in investment banks

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37	Ali Kareem Najm Al-Asadi, Ahmed Abdul Salam Alubaidy, Mustafa Kareem Najm Al- Asadi, Meena Albaghdadi, Ahmed Hussein Ahmed Investigation of various Photodetection techniques for long distance transmission based Optical Networks.
29	Muihsin J. Jweeg, Moneer H. Tolephih, Safi R. Safi Experimental and Numerical Simulation of a Resistance Spot Welding in Aluminum (AA1050) Sheets
40	Meena Albaghdadi, Mustafa Kareem Najm Al-Asadi, Ahmed Abdul Salam Alubaidy, Ali Kareem Najm Al-Asadi, Ahmed Hussein Ahmed Implementation of SCM ASK Bi-Directional Transmission System for RoF Application with Different Power Launch Values
34	Njim, Emad Jweeg, Muhsin; Abbas, Ehab; Ziadoon, Al-Hadrayi A Computerized Numerical Investigation of Free Vibra-tion of TPEs Rectangular Plate Reinforced by Micro- Al Particles
36	Njim, Emad Jweeg, Muhsin; Abbas, Ehab; Al-Maliky, Firas A Compurorized Solution for The Static And Dynamic Properties Of Porous Functionally Graded Composite Plates Based On Theoretical And Experimental Tech-niques

Technical Session – 4 Session Chairs: Dr. Deepika Kumar

26	Aycicek, Samet Celme, Doga; Eksi, Erman; Demirtas, Tuncay; Malkoş, Sibel; Konuskan, Yigit; Tasdemir, Omer Faruk Thermal Image Stitching for Improved Quality Control in Thermoforming Machines
31	Aycicek, Samet SMT Defect Detection on PCBs Using YOLOv11 with Axis-Aligned and Oriented Bounding Boxes
38	Ahmed Hussein Ahmed, Laith F. Jumma, Mustafa Bashar, Ali Ali Saber, Hussein Alaa Diame Machine Learning Techniques for advanced Implementation of Antenna Design to meet the emerging requirements: Review paper
58	Hazim, Sara Faleh, Ahmed Deep Learning Approaches for Fiber Optic Fault Detection and Distance Estimation Using OTDR Traces
53	Farhan, Hameed Naseri, Raghda Awad Shaban; Alhmud, Noor Kamil Hasan; Kurnaz, Sefer Enhancing Threat Detection: A Machine Learning Approach with Energy Valley Optimizer for Feature Selection
54	Farhan, Hameed Tabtaba, Ahlam; Ata, Oguz A survey On Automated Detection and Diagnosis of Diabetic Retinopathy
45	Aqeel Ali Al-Hilali Object detection using Various Deep Learning methods in Satellite-based Applications.
47	Sufian Al-Jumaili, Abdül Kadir Görür Optimized Traffic Flow Prediction in Intelligent Transportation Systems Using Support Vector Machines (SVM)

Technical Session – 5 Session Chairs: Dr. Enkeleda Lulaj

49	Kumar, Vaijyanthi Sambath ; Kumar, Deepika Jamil, Akhtar Using Machine Learning-Based NIDS to Attain Adaptability in Crypto-Agility in Network Security
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50	Abdulmajeed, Adwaa ; Abdul Zahra, Israa ; Jweeg, Muhsin; Njim, Emad Abdulhussien, Rand A Computerized Solution For The Mechanical Characterization Of Polyethylene Terephthalate Glycol (PETG) / Graphene Nanoplatelets (GNPLs) Functionally Graded Composite Beams
51	Algburi, Ahmed Noori Ahmed Algburi, Ahmed Noori Ahmed; Avci, Dr. İsa A New Modified Whale Optimization Algorithm
59	Farooq, Saad; Mukhtar, Umer; Jamil, Akhtar; Ali Hameed, Alaa Ensemble Deep Learning for Slice-Level Classification and Tumor Segmentation in Prostate Cancer MRI Images
55	Almshhed, Taha; Naseri, Raghda Awad Shaban; Farhan, Hameed Kurnaz, Sefer Design of Advanced Anomaly Detection System based on Hybrid Machine Learning Technique with Optimized Feature Selection in Wireless Sensor Network
57	Hajam, Mohd Asif ; Arif, Tasleem ; Khanday, Akib Bhushan, Bharat; Jamil, Akhtar; Alazzawi, Esraa Mohammed North Indian Medicinal Plant Leaf identification Using Convolutional Neural Networks
41	Aqeel Ali Al-Hilali, Laith F. Jumma, Mustafa Bashar, Ali Ali Saber, Hussein Alaa Diame Overview of the Future Challenges and Opportunities in Satellite Communication Prospect: A Review Paper
43	Aqeel Ali Al-Hilali, Laith F. Jumma, Mustafa Bashar, Ali Ali Saber, Hussein Alaa Diame A Survey for Different Image Steganography Techniques: Challenges, Hiding Tools, And Detection Procedure
44	Aqeel Ali Al-Hilali, Laith F. Jumma, Mustafa Bashar, Ali Ali Saber, Hussein Alaa Diame Access point Localization in Wireless Network, Techniques, Challenges and Future Aspects