

2026 International Conference on Data Science, Machine Learning, and Intelligence (DataSciMI 2026)

**Lahore, Pakistan
26-28 March 2026**

IEEE Catalog Number:
ISBN:

CFP260AM-POD
979-8-3315-5583-2



Copyright © 2026, IEEE

All Rights Reserved

Copyright and Reprint Permissions:

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	CFP260AM-POD
ISBN (Print-On-Demand):	979-8-3315-5583-2
ISBN (Online):	979-8-3315-5582-5

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA

Phone:	(845) 758-0400
Fax:	(845) 758-2633
E-mail:	curran@proceedings.com
Web:	www.proceedings.com

TABLE OF CONTENTS

Optimizing 3D Object Detection with LiDAR-Camera Fusion Using a Single Backbone Approach	1
<i>Adnan Baig, Umair Muneer Butt, Imtiaz Hussain</i>	
Empowerment of Social-Media Apps Using RSQM Approach and Multi-Layered Model	7
<i>Ahmad Bacha, Muhammad Mukhtar, Khalid Hamid, Muhammad Akram Mujahid Muhammad Waseem Iqbal</i>	
Leveraging AI for Real-Time Intrusion Detection in IOT-Enabled Healthcare Systems	14
<i>Ahmed Butt, Malik Muhammad Huzaifa, Urooba Sumbal, Muhammad Zunnurain Hussain</i>	
Scalable Network Intrusion Detection via Advanced Feature Engineering and Correlation Analysis on the CICIDS2017 Dataset	20
<i>Ali Mohsin, Muhammad Zunurain Hussain, Kabeer Ahmad, Muhammad Zulkifl Hasan, Fatima Ahmad Iqra Azam</i>	
End-to-End Deep Learning Framework for Video Super-Resolution	26
<i>Amarah Abdullah, Vardah Mazhar, Shelva Shareen</i>	
Depression Prediction among Students using Machine Learning and Voting Ensembles: An Explainable AI Approach	31
<i>Amina Fatima, Muhammad Shoaib, Muhammad Waseem</i>	
FraudSight: A Comprehensive Analysis of Machine Learning and Deep Learning Models for Credit Card Fraud Detection	37
<i>Ayesha Jaffar, Abdul Rehman Bin Waseem, Muhammad Amir Shahid, Junaid Nasir Qureshi, Noor Ul Hira Alina Akhtar</i>	
A Comparative Study of Transformer-Based Models for Multi-Class SMS Phishing Detection	43
<i>Farwa Khalid, Mahib Hussain, Iram Noreen, Zeshan Karim</i>	
Decentralized Intelligence-Modeling Adaptive Security Through the WanderMind-Ledger Blockchain Architecture	48
<i>Junaid Nasir Qureshi, Muhammad Zaeem Zafar, Talha Maqsood, Aitizaz Ali</i>	
LATON: A Quantum-Resilient Unified Compression and Encryption Technique For IoT	54
<i>Khan Farhan Rafat</i>	
MyCustomBot: A Next Gen Search Engine for Customized Hyper Meta search of Public Domain Data in Conjunction with Secured User Private Data	60
<i>Kumud Majumder, Sardor Hazratov</i>	
Modification and Testing of Patch Antenna for Wireless Communication System	66
<i>Maklayne Barros de Pontes Santiago, Maryam Liaqat, Maria Luysa Teles Barcelar Matheus Henrique Barros Da Silva, Frederico Dias Nunes, Antonio Celso Dantas Antonino</i>	
Defected Ground Structure Antenna for Radio Frequency Identification (RFID) for IoT Applications	71
<i>Maryam Liaqat, Matheus Henrique Barros da Silva, Maria Luysa Teles Barcelar Antonio Celso Dantas Antonino, Maklayne Barros de Pontes Santiago, Frederico Dias Nunes</i>	
Optimized Deployment of AI Models on Cloud Platforms: Strategies, Challenges, and Future Direction	77
<i>Misbah Maqbool, Uzma Abdul Rehman, Naeem A. Nawaz, Kashif Ishaq</i>	

Securing Services Infrastructure: A Web-Based Automated Integrity Monitoring Framework for Linux Systems Using AIDE and Systemd Scheduling	85
<i>Muhammad Abdullah Khan, Fahad Bin Faiz, Arif Ur Rahman</i>	
A Quantum Leap in Cybersecurity: Novel Paradigms for Safe Digital Communication	90
<i>Muhammad Abdullah Qureshi, Muhammad Zulkifl Hasan, Minahil Kamran, Abdul Rehman Bin Waseem Nadeem Sarwar</i>	
AI-Enabled Framework for Stock Market Prediction Using KSE-100 Index	96
<i>Muhammad Asfar, Muddasir Hassan Khan, Omer Qureshi, Muhammad Farrukh Shahid</i>	
A Novel Camera, Lidar, and Weather Station Dataset for Precipitation Classification and Evaluation	102
<i>Muhammad Haaris Khan, Abdul Haq Azeem Paracha, Hamza Salaar, Georg Arbeiter</i>	
FICS: Foreground-Informed Concept Segmentation for Robust, Object-Centric Explainability	110
<i>Muhammad Imran Khalid, Asma Komal, Faiza Ayyob, Danish Atique</i>	
Spatially-Aware Contrastive Representation Learning for CSI Fingerprint Indoor Localization	116
<i>Muhammad Junaid Tahir, Mu Zhou, Wilford Arigye, Muddasar Laghari</i>	
Explainable Multimodal Plant Disease Classification with Prompt-Guided Transformers	122
<i>Muhammad Mohsin, Imran Ashraf, Muhammad Junaid, Anam Ahsan, Saira Moin U Din, Sana Fatima</i>	
Med-Convo: A LoRA-Optimized LLaMA-2 Framework for Efficient Medical Conversations	128
<i>Muhammad Omar Sajid, Areesha Ramzan, Muhammad Umar Khan, Alishba Mahnoor, Rana Fayyaz Ahmad Faizan Hamayat</i>	
Towards a Generalized Machine Learning Framework for Diabetes Prediction Across Public Datasets	134
<i>Muhammad Shamraiz Iqbal, Maliaka, Adven Masih, Asma Irshad, Tanzil Rabbani</i>	
Smart Security Framework: A Pose-Aware Multi-Stage Enrollment and Recognition System	140
<i>Muneeb Ahmed Khan, Akbar Hussain, Muhammad Athar Rahim, Imtiaz Hussain, Arham Mustafa Zuha Rani</i>	
A Multimodal Framework for Natural Disaster Classification using Social Post Media Data	148
<i>Nagina Riaz, Aqsa Zahid, Adven Masih, Khurram Asghar</i>	
Machine Learning and Deep Learning Empowered Tweet Sentiment Analysis	154
<i>Nida Hafeez, Abdullah, Maryam Shabbir, Fatima Shabbir, Muhammad Ateeb Ather</i>	
Reinforcement Learning for Autonomous Cyber Defense in Cloud Environments	160
<i>Noman Mazher, Naser Naser, Nahed Bahman, Zillay Huma, Hadia Azmat, Atika Nishat, Ahmad Raza</i>	
Zero-Shot vs. Supervised: Evaluating Multilingual LLMs for 3R Content Moderation in Malaysia	165
<i>Ong Yew Chuan, Sharifah Sumayyah Engku Alwi, Azwa Abdul Aziz, Azilawati Rozaimie Shafiq Angullia Tawfeik Sulleiman, Belal Al Ifan</i>	
Edge-Intelligent Blockchain Framework for Ultra-Secure and Energy-Efficient Real-Time Patient Monitoring in IoMT Using Hierarchical Federated Learning	172
<i>Rana Hassam Ahmed, Muhammad Sarfraz Khan, Amirmohammad Delshadi, Naseer Ahmad, Majid Hussain</i>	
Sentiment-Aware Matrix Factorization for Enhanced Recommendation Systems	178
<i>Roshni Fareed, Amna Irfan, Sania Shaukat, Sidra Zafar, Huma Mughal</i>	

FedTA++: A Temporal-Aware Framework for Mitigating Spatial-Temporal Catastrophic Forgetting in Federated Continual Learning	186
<i>Saeed Iqbal, Imran Arshad Choudhry, Muhammad Attique Khan, Amin Ullah</i>	
DR-NetVision: A CNN with Dual Explainable AI for Transparent Diabetic Retinopathy Grading	192
<i>Samia Akhtar, Shabib Aftab, Usama Ahmed, Munir Ahmad, Muhammad Anwaar Saeed</i>	
Attention-Guided Explainable Deep Learning Framework for Diabetic Retinopathy Grading	198
<i>Samia Akhtar, Shabib Aftab, Munir Ahmad, Usama Ahmed</i>	
Toward Intelligent Breast Cancer Screening Harnessing Capsule Networks for Robust Detection	204
<i>Samra Nawazish, Muhammad Zulkifl Hasan, Muhammad Amir Shahid, Noor Ul Hira, Nadeem Sarwar</i>	
EPISPY: Integrating User-Zone Analytics and Officer Proximity Surveillance for Smart Pandemic Response	210
<i>Sakinah Ali Pitchay, Hazeeqah Amny Kamarul Aryffin, Murtadha Arif Bin Sahbudin Azni Haslizan Ab Halim</i>	
Interpretable Emotion Detection in Social Media Using Deep Learning and Transformer-Based Models	216
<i>Shamyla Firdoos, Muhammad Sheraz Ul Hassan, Ali Imran Cheema, Muhammad Ahmed</i>	
Analyzing Adversarial Attacks on Federated Learning based Medical Image Classification	222
<i>Soomaiya Hamid, Narmeen Zakaria Bawany</i>	
A Multi-Layer Smart Computing Architecture for Techpreneurial Optimization Using Machine Learning and Evolutionary Algorithms	228
<i>Syed Rizwan Ali, Shaikh Zunain, Muhammad Faraz, Talha Bin Shuja, Muhammad Mumtaz Khan</i>	
Multi-band EEG Feature Optimization for Sleep Deprivation Classification	234
<i>Syeda Hina Gillani, Shcharyar Khan, Sadam Hussain Noorani, Aamir Arsalan Sanay Muhammad Umar Saeed, Muhammad Tariq Javed</i>	
MODWT-Based Wavelet Neuro-Fuzzy MPPT for Photovoltaic Systems with Comparative Analysis to Machine Learning Controllers	240
<i>Tariq Kamal, Syed Zulqadar Hassan</i>	
Ensemble Driven Insight Benchmarking Classical and Ensemble Machine Learning Models for Multi Aspect Misinformation Classification	246
<i>Usman Mustafa, Muhammad Abdullah Butt, Syed Hazik Abbas Jaffri, Abdullah Hassan, Ghulam Mustafa</i>	
Hybrid Ensemble Learning for High-Precision DDoS Attack Detection in IoT Networks Using the INDDOS24 Dataset	253
<i>Usman Mustafa, Minahil Kamran, Muhammad Yousaf Rafique, Alina Akhtar, Ashas Mushtaq, Umer Majeed</i>	
Disaster-Responsive and Emergency-Aware Traffic Management for Autonomous Vehicle Networks	259
<i>Wania Tahir, Kou Yamada</i>	
Exploring AI Techniques for Enhancing Network Security	264
<i>Zwaib Ur Rehman, Mashood Ur Rehman Rana, Ali Haider, Muhammad Abdullah Qureshi, Meheryar Khan Summaira Nosheen</i>	