SEEMAB LATIF

Associate Professor

School of Electrical Engineering and Computer Science

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About

Dr. SEEMAB LATIF is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. SEEMAB LATIF has a PhD in Artificial Intelligence. Dr. SEEMAB LATIF has published 52 research articles & conference papers having a citation count of 385, carried out 7 projects and filed 7 intellectual property.

Qualifications

PhD in Artificial Intelligence   2006 - 2010
  University of Manchester , England

MS in Artificial Intelligence   2004 - 2006
  NUST, Islamabad , Pakistan

BS in Software Engineering   2000 - 2004
  Fatima Jinnah Women University , Pakistan

Experience

Associate Professor   2021- Present
  School of Electrical Engineering and Computer Science

Assistant Professor   2016 - 2021
  School of Electrical Engineering and Computer Science

Assistant Professor   2015 - 2016
  School of Electrical Engineering and Computer Science

Assistant Professor   2012 - 2015
  Military College of Signals

Assistant Professor   2010 - 2012
  Military College of Signals

Awards

University Best Innovator   2020
  University Best Innovator Award for year 2019

School Best Teacher Award   2018
  School Best Teacher Award for year 2015-16

Professional Memberships

ACM   Since 2019

IEEE   Since 2017

Research Projects

National Projects

SummItUp Content Summary Generator　　　　　　　　　　　　　　　　2019
   Funding Agency: IGNITE
   Amount: PKR 65,000.00
   Status: Completed

Generating Plausible Counterfactual Explanations using Transformers in Natural Language based Financial Forecasting (NLFF)　　　2022
   Funding Agency: HEC
   Amount: PKR 19,892,000.00
   Status: Completed

Smart Device for Non Invasive Fetal Analysis & Diagnosis (Meternal - Aid)　　　2019
   Funding Agency: NUST
   Amount: PKR 300,000.00
   Status: Approved_inprocess

Beyond Data　　　　　　　　　　　　　　　　　　　　　　　　　　2019
   Funding Agency: HEC
   Amount: PKR 9,600,000.00
   Status: Completed

AAWAZ　　　　　　　　　　　　　　　　　　　　　　　　　　　　2017
   Funding Agency: HEC
   Amount: PKR 6,400,000.00
   Status: Completed

International Projects

Industry Projects

National Projects

5th Quarterly Payment of NUST-OneScreen Collaboration　　　　　　　2023
   Client: OneScreen Solution (registered as ClaryIcon)
   Amount: PKR 756,839.00
   Status: Completed

AAWAZ AI TECH
   Client: HEC
   Amount: PKR 7,000,000.00
   Status: Completed

International Projects

Research Articles

DRIFTNET-EnVACK: Adaptive Drift Detection in Cloud Data Streams with Ensemble Variational Auto-encoder Featuring Contextual Network　　　2024
   Tajwar Mehmood Seemab Latif Rabia Latif Hammad Majeed Asad Waqar Malik
   IEEE Access , Volume 12, Pages 80020-80034
   Impact Factor: 3.400 | **Quartile:** 2
   DOI: 10.1109/ACCESS.2024.3409433

Multi-modal LSTM network for anomaly prediction in piston engine aircraft　　　2024
   Waqas Rauf Khattak Ahmad Salman Salman Abdul Ghafoor Seemab Latif
   Heliyon , Volume 10, Issue 3, Article Number e25120
   Impact Factor: 4.0 | **Quartile:** 2 | **Citations:** 5
   DOI: 10.1016/j.heliyon.2024.e25120

LSTMDD: an optimized LSTM-based drift detector for concept drift in dynamic cloud computing　　　2024
   Tajwar Mehmood Seemab Latif Nor Shahida Mohd Jamail Asad Waqar Malik Rabia Latif
   PeerJ Computer Science , Volume 10, Article Number e1827
   Impact Factor: 3.8 | **Quartile:** 2 | **Citations:** 3
   DOI: https://doi.org/10.7717/peerj-cs.1827

Assessing Urdu Language Processing Tools via Statistical and Outlier Detection Methods on Urdu Tweets

2023

Zoya Seemab Latif Hammad Majeed Rabia Latif Nor Shahida Mohd Jamail

ACM Transactions on Asian and Low-Resource Language Information Processing, Volume 22, Issue 10, Article Number 234

Impact Factor: 2.0 | **Quartile:** 4 | **Citations:** 5
DOI: https://doi.org/10.1145/3622939

A Novel Cloud Management Framework for Trust Establishment and Evaluation in a Federated Cloud Environment

2021

Rabia Latif Syeda Hadia Afzaal Seemab Latif

The Journal of Supercomputing, Volume 77, Pages 12537-12560

Impact Factor: 2.557 | **Quartile:** 2 | **Citations:** 9
DOI: https://doi.org/10.1007/s11227-021-03775-8

Analyzing LDA and NMF Topic Models for Urdu Tweets via Automatic Labeling

2021

Zoya Seemab Latif Faisal Shafait Rabia Latif

IEEE Access, Volume 9, Pages 127531-127547

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 28
DOI: 10.1109/ACCESS.2021.3112620

T-Smart: Trust Model for Blockchain Based Smart Marketplace

2021

Muhammad Waleed Rabia Latif Bello Musa Yakubu Majid Iqbal Khan Seemab Latif

Journal of Theoretical and Applied Electronic Commerce Research, Volume 16(6), Pages 2405-2423

Impact Factor: 5.318 | **Quartile:** 2 | **Citations:** 14
DOI: https://doi.org/ 10.3390/jtaer16060132

A novel trust management model for edge computing

2021

Rabia Latif Malik Uzair Ahmed Shahzaib Tahir Seemab Latif Mian Muhammad Waseem Iqbal Awais Ahmad

Complex & Intelligent Systems, Pages 1-17

Impact Factor: 4.927 | **Quartile:** 2 | **Citations:** 11
DOI: https://doi.org/10.1007/s40747-021-00518-3

Reducing Arm Fatigue in Virtual Reality by Introducing 3D-Spatial Offset

2021

Hasan Iqbal Seemab Latif Yukang Yan Chun Yu Yuanchun Shi

IEEE Access, Volume 9, Pages 64085-64104

Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 13
DOI: 10.1109/ACCESS.2021.3075769

Predicting Risk of Antenatal Depression and Anxiety Using Multi-Layer Perceptrons and Support Vector Machines

2021

Fajar Javed Syed Omer Gilani Seemab Latif Asim Waris Mohsin Jamil Ahmed Waqas

Journal of Personalized Medicine, Volume 11(3), Article Number 199

Impact Factor: 4.433 | **Quartile:** 1 | **Citations:** 20
DOI: https://doi.org/10.3390/jpm11030199

Malicious Insider Attack Detection in IoTs Using Data Analytics

2020

Ahmed Yar Khan Rabia Latif Seemab Latif Shahzaib Tahir Gohar Batool Tanzila Saba

IEEE Access, Volume 8, Pages 11743 - 11753

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 85
DOI: 10.1109/ACCESS.2019.2959047

An Adaptive Rule-Based Approach to Resolving Real-Time VoIP Wholesale Billing Disputes

2017

Nazish Yaqoob Asif Yaseen Seemab Latif Haider Abbas Rabia Latif

Journal of Information Science and Engineering, Volume 33, No. 6, Special Issue: SI, Pages 1433-1446

Impact Factor: 0.327 | **Quartile:** 4 | **Citations:** 1
DOI: https://doi.org/10.6688/JISE.2017.33.6.3

Performance evaluation of Enhanced Very Fast Decision Tree (EVFDT) mechanism for distributed denial-of-service attack detection in health care systems

2016

Seemab Latif Ashraf Masood Haider Abbas Rabia Latif

Annals of Telecommunications, Volume 71, Issue 9-10, Pages 477-487

Impact Factor: 1.412 | **Quartile:** 3 | **Citations:** 10
DOI: 10.1007/s12243-016-0495-x

A Mobile Application to Improve Learning Performance of Dyslexic Children with Writing Difficulties

2016

Rabbia Tariq Seemab Latif

Educational Technology & Society , Volume 19, Issue 4, Pages 151-166

Impact Factor: 1.584 | **Quartile:** 2

Distributed Denial of Service Attack Source Detection Using Efficient Traceback Technique (ETT) in Cloud-Assisted Healthcare Environment

Rabia Latif Seemab Latif Haider Abbas Ashraf Masood

Journal of Medical Systems , -

Impact Factor: 2.456 | **Quartile:** 2 | **Citations:** 10
DOI: https://doi.org/10.1007/s10916-016-0515-4

2016

Distributed denial of service (DDoS) attack detection using data mining approach in cloud-assisted wireless body area networks

Rabia Latif Haider Abbas Seemab Latif

International Journal of Ad Hoc and Ubiquitous Computing, Volume 23, Issue 1-2, Pages 24-35, Special Issue SI

Impact Factor: 0.705 | **Quartile:** 4
DOI: 10.1504/IJAHUC.2016.10000196

2016

EVFDT: An Enhanced Very Fast Decision Tree Algorithm for Detecting Distributed Denial of Service Attack in Cloud-Assisted Wireless Body Area Network

Rabia Latif Haider Abbas Seemab Latif Ashraf Masood

Mobile Information Systems , NULL

Impact Factor: 1.462 | **Quartile:** 2 | **Citations:** 20
DOI: http://dx.doi.org/10.1155/2015/260594

2015

Conference Proceedings

NUST Titans at SemEval-2025 Task 11: AfroEmo: Multilingual Emotion Detection with Adaptive Afro-XLM-R

Mehwish Fatima Maham Khan Hajra Binte Naeem Faiza Khan Laiba Rana SEEMAB LATIF Raja Khurram Shahzad

Proceedings of the 19th International Workshop on Semantic Evaluation (SemEval-2025), res.country(12,)

Citations: N/A
DOI: https://aclanthology.org/2025.semeval-1.289/

2025

FinRL Contest 2025 Task 1:Market-Aware In-Context Learning Framework for Proximal Policy Optimization in Stock Trading Using DeepSeek

Sahar Arshad Huma Ameer Nikhar Azhar SEEMAB LATIF

Proceedings - 2025 IEEE 11th International Conference on Intelligent Data and Security, IDS 2025, res.country(233,)

Citations: N/A
DOI: 10.1109/IDS66066.2025.00024

2025

News Credibility Identification on Facebook

Maha Zainab Asad Ali Shah Sharifullah Khan SEEMAB LATIF Safdar Abbas Khan Abdulwahab Ali Almazroi

2025 International Conference on Innovation in Artificial Intelligence and Internet of Things (AIIT), res.country(192,)

Citations: N/A
DOI: 10.1109/AIIT63112.2025.11082752

2025

NUST Omega at RIRAG 2025: Investigating Context-Aware Retrieval and Answer Generation-Lessons Learned and Challenges

Huma Ameer Muhammad Hannan Akram SEEMAB LATIF Mehwish Fatima

COLING 2025 , res.country(2,)

Citations: N/A
DOI: Nil

2025

NUST Alpha at RIRAG 2025: Fusion RAG for Bridging Lexical and Semantic Retrieval and Question Answering

Muhammad Rouhan Faisal Faizyab Ali Shah Muhammad Abdullah Shalina Riaz Huma Ameer SEEMAB LATIF Mehwish Fatima

COLING 2025 , res.country(2,)

Citations: N/A
DOI: Nil

2025

NUST Nova at RIRAG 2025: A Hybrid Framework for Regulatory Information Retrieval and Question Answering

SEEMAB LATIF Mehwish Fatima Mariam Babar Khan Huma Ameer

31st International Conference on Computational Linguistics (COLING 2025), res.country(2,)

2025

Citations: N/A
DOI: Nil

Personality Prediction using Multiple Textual Datasets and Deep Learning Models   2024

Arsalan Shaukat SEEMAB LATIF Faiza Arshad

2024 International Conference on Frontiers of Information Technology, FIT 2024, res.country(177,)

Citations: N/A
DOI: 10.1109/FIT63703.2024.10838446

Event-Driven Investment Recommendations using Synthesized Financial News for Stock Market   2024

SEEMAB LATIF Sana Sajid Sahar Arshad Nikhar Azhar Huma Ameer

8th International Conference on Applied Economics and Business, res.country(57,)

Citations: N/A
DOI: https://doi.org/10.1007/978-3-031-77363-1_7

Fine-tuning Urdu NER Models Using Context-Aware Embeddings   2024

SEEMAB LATIF Sahar Arshad Nikhar Azhar

Proceedings - 2024 14th International Conference on Software Technology and Engineering, ICSTE 2024, res.country(48,)

Citations: N/A
DOI: 10.1109/ICSTE63875.2024.00030

Interpretability in Financial Forecasting: The Role of eXplainable AI in Stock Market   2024

SEEMAB LATIF Hira Tanveer Sahar Arshad Huma Ameer

2024 14th International Conference on Software Technology and Engineering (ICSTE), res.country(48,)

Citations: N/A
DOI: 10.1109/ICSTE63875.2024.00039

NLPColab at FigNews 2024 Shared Task: Challenges in Bias and Propaganda Annotation for News Media   2024

Hammad Afzal SEEMAB LATIF Sadaf Abdul Rauf Huda Sarfraz Saadia Ishtiaq Nauman Arooj Fatima Sadaf Ziafat Alishba Abdul Suboor

Proceedings of The Second Arabic Natural Language Processing Conference, res.country(217,)

Citations: N/A
DOI: 10.18653/v1/2024.arabicnlp-1.61

Leveraging Large Language Models and Prompt Settings for Context-Aware Financial Sentiment Analysis   2024

SEEMAB LATIF Rabbia Ahmed Sadaf Abdul Rauf

2024 5th International Conference on Advancements in Computational Sciences, ICACS 2024, res.country(177,)

Citations: N/A
DOI: DOI: 10.1109/ICACS60934.2024.10473283

Text Summarization from Judicial Records using Deep Neural Machines   2022

Ayesha Sarwar Seemab Latif Rabia Irfan Adnan ul-Hassan Faisal Shafait

International Conference on Electrical, Computer, Communications and Mechatronics Engineering, ICECCME 2022, res.country(154,)

Citations: N/A
DOI: 10.1109/ICECCME55909.2022.9987795

Comparison of Transformer Models for Information Extraction from Court Room Records in Pakistan   2022

Nida Ahmed Seemab Latif Rabia Irfan Adnan ul-Hassan Faisal Shafait

International Conference on Electrical, Computer, Communications and Mechatronics Engineering, ICECCME 2022, res.country(154,)

Citations: 1
DOI: 10.1109/ICECCME55909.2022.9988642

Dynamic Big Data Drift Visualization of CPU and Memory Resource Usage in Cloud Computing   2022

Tajwar Mehmood Seemab Latif

Artificial Intelligence Applications and Innovations AIAI 2022, res.country(88,)

Citations: 1
DOI: 10.1007/978-3-031-08333-4_3

Roman Urdu Sentiment Analysis Using Pre-trained DistilBERT and XLNet   2022

Nikhar Azhar Seemab Latif

Fifth International Conference of Women in Data Science, res.country(192,)

Citations: 2
DOI: 10.1109/WiDS-PSU54548.2022.00027

Students Personality Assessment using Deep Learning from University Admission Statement of Purpose
2022

Salma Kulsoom Seemab Latif Tanzila Saba Rabia Latif

2022 7th International Conference on Data Science and Machine Learning Applications (CDMA) , res.country(192,)

Citations: 2
DOI: 10.1109/CDMA54072.2022.00042

Question Classification Using Universal Sentence Encoder and Deep Contextualized Transformer
2021

Najam Arif Seemab Latif Rabia Latif

14th International Conference on Developments in eSystems Engineering (DeSE), res.country(2,)

Citations: N/A
DOI: 10.1109/DeSE54285.2021.9719473

Fine Tuning BERT for Unethical Behavior Classification
2021

Syeda Faizan Fatima Seemab Latif Rabia Latif

IEEE 2021 International Conference on Digital Futures and transformative Technologies (ICoDT2),, res.country(177,)

Citations: 1
DOI: 10.1109/ICoDT252288.2021.9441540

From Transformers to Reformers
2021

Nauman Riaz Seemab Latif Rabia Latif

International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,)

Citations: 4
DOI: 10.1109/ICoDT252288.2021.9441516

Transfer Learning Grammar for Multilingual Surface Realisation
2021

Atif Khurshid Seemab Latif Rabia Latif

IEEE 2021 International Conference on Digital Futures and transformative Technologies (ICoDT2), res.country(177,)

Citations: N/A
DOI: 10.1109/ICoDT252288.2021.9441522

A Survey of Sentiment Analysis of Internet Textual Data and Application to Pakistani YouTube User Comments
2021

Mehwish Rani Seemab Latif Muhammad Ali Tahir Rafia Mumtaz

IEEE International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,)

Citations: 3
DOI: https://doi.org/10.1109/ICoDT252288.2021.9441524

Sentiment Analysis on COVID Tweets: An Experimental Analysis on the Impact of Count Vectorizer and TF-IDF on Sentiment Predictions using Deep Learning Models
2021

Ghulam Musa Raza Zainab Saeed Butt Seemab Latif Abdul Wahid

2021 International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,)

Citations: 21
DOI: 10.1109/ICoDT252288.2021.9441508

Crowdsourcing Cybercrimes through Online Resources
2020

Naila Amir Rabia Latif Narmeen Shafqat Seemab Latif

IEEE 13th International Conference on Developments in eSystems Engineering (DeSE), res.country(231,)

Citations: 1
DOI: 10.1109/DeSE51703.2020.9450747

MAD-Malicious Activity Detection Framework in Federated Cloud Computing
2020

Akash Gerard Rabia Latif Seemab Latif Mian Muhammad Waseem Iqbal Tanzila Saba Naqash Gerard Waseem Iqbal

IEEE 13th International Conference on Developments in eSystems Engineering (DeSE), res.country(231,)

Citations: 2
DOI: 10.1109/DeSE51703.2020.9450728

Backward-Forward Sequence Generative Network for Multiple Lexical Constraints
2020

Seemab Latif Sarmad Bashir Mir Muntasar Ali Agha Rabia Latif Seemab Latif Sarmad Bashir Mir Muntasar Ali Agha Rabia Latif

AIAI 2020 16th International Conference on Artificial Intelligence Applications and Innovations, res.country(88,)

Citations: 1
DOI: https://doi.org/10.1007/978-3-030-49186-4_4

i* (iStar) Security Hierarchy for Cloud Computing
2019

Fiza Saher Faizan Seemab Latif Rabia Latif Fiza Saher Faizan Seemab Latif Rabia Latif

14th International Conference on Software Engineering Advances, res.country(68,)
Citations: N/A
DOI: icsea_2019_4_40_18001

Prediction Of Cloud Computing Resource Utilization   2018
Tajwar Mehmood Seemab Latif Sheheryaar Malik
15th International Conference on Smart Cities: Improving Quality of Life Using ICT & IoT (HONET-ICT) res.country(177,)
Citations: 21
DOI: 10.1109/HONET.2018.8551339

Synthesis of an Adaptive CPR Filter for Identification of Vehicle Make & Type   2014
Ahmed Bilal Awan Saad Rehman Seemab Latif
2014 National Software Engineering Conference, res.country(177,)
Citations: 9
DOI: 10.1109/NSEC.2014.6998236

Analyzing feasibility for deploying very fast decision tree for DDoS attack detection in cloud-assisted WBAN   2014
Rabia Latif Haider Abbas Saïd Assar Seemab Latif
10th International Conference, ICIC 2014, res.country(48,)
Citations: 13
DOI: 10.1007/978-3-319-09333-8_57

Book Chapters

Designing an Assistive Learning Aid for Writing Acquisition: A Challenge for Children with Dyslexia   2015
Rabbia TARIQ Shehla TARIQ Rabia LATIF seemab latif
In: *Book on Studies in Health Technology and Informatics-Assistive Technology*, NULL
Citations: 4
DOI: 10.3233/978-1-61499-566-1-180

Editorial Activities

2018
Reviewed Papers for Journals
Impact Factor: 3.818

Intellectual Property

Copyrights

Numeric Data to Text Translation   2020
Status: Filed

PDF Financial Table Extraction API   2020
Status: Filed

SUMM-IT-UP- A Content Summary Generator   2019
Status: Filed

Emotion Identification and Analysis on Call Center Audio   2019
Status: Filed

Language Learning Application for Children with Special Needs, using Deep Learning   2019
Status: Filed

Patents

Asynchronous Backward-Forward Sequence Generative Approach for Sentence Generation using Multiple Lexical Constraints   2019
Status: Filed

Discovery AAC   2019
Status: Filed

Industrial Designs

Trademarks

Trainings

Advanced AI Bootcamp on Large Language Models (LMM)   2024
   Partner: Ashar Aziz Foundation (SkyLabs)
   Duration: 30-May-2024 to 29-Aug-2024

Advanced AI Bootcamp on Deep Neural Networks (DNN)   2023
   Partner: Ashar Aziz Foundation
   Duration: 11-Aug-2023 to 17-Nov-2023