FARHAN ULLAH

Citizenship: PAKISTAN [PK]

Professional Experience

07/2020	**Associate Professor, School of Software, Northwestern Polytechnical University (NPU), Xian, China** • Master Level: Taught courses Joint-Human Machine Learning, Network and Distributed Computing • Undergraduate Level: Software Project and Organization Management
02/2015-08/2017	**Lecturer in Computer Science Department, COMSATS University Islamabad, Sahiwal Campus, Pakistan** • Bachelor level: Taught courses Object Oriented Programming. Analysis of Algorithm, Data Structure, Data Communication • Supervised Students in degree projects
10/2014-02/2015	**Lecturer in Computer Science Department, Barani Institute of Management Sciences (BIMS), (A Joint Venture of Arid Agriculture University Rawalpindi, Pakistan)** • Bachelor level: Taught courses Object Oriented Programming. Analysis of Algorithm, Data Structure, Data Communication • Supervised Students in degree projects
01/2013-09/2014	**Network Engineer, FIFA, FATA Secretariat Warsak Road, Peshawar, Pakistan** • Network maintenance and troubleshooting
01/2011-04/2013	**Lecturer, CECOS University, Peshawar, Pakistan** • Taught computer science courses

Supervisor/Co-Supervisor

Research Thesis Supervision / Co-Supervision (Master Degree Students)

- Muhammad Hamza Akbar (2022), "Deep reinforcement learning based approach for grammatical error correction"
- Muhammad Nabeel Raza (2022), "Fake news detection using transformer based transfer learning"
- Muhammad Yousaf (2022), "Student Attention-aware Deep Reinforcement Learning Model using Facial Expression and EEG Brain Signals"
- Saima Saddiq (2017), "Developing Formal Model for Semantics of Smart Logistics in Web of Things"
- Shabina Farooq (2017), "Towards Developing Formal Model for Semantic Web Ontology for Smart Homes in Web of Things"
- Umbar Noureen Abbass (2016), "Formal Model of smart traffic monitoring and guidance system"
- Sajeel ur Rehman, Tehreem Qamar (2016), "Old Age Home Patient Monitoring System Through Internet of Things (IoT)"

Project Supervision / Co-Supervision (Bachelor Degree Students)

- Farhan Ali, Yasir Ali, Azfar Tariq, "Social Services Ranking"
- Waqas Saeed, Muhamad Latif, "Student and Teacher Notification System"
- Ayesha Ashfaq, "Online Shopping system with face detection login"
- Faisal Khan, "Online railway reservation system

Education

09/2017-06/2020	**Ph.D. (Doctor of Engineering in Computer Science and Technology)** Sichuan University, Chengdu, China (http://www.scu.edu.cn/) [Medium of Instruction: **English**] [Course Work Percentage: **A**]

Study emphases: Program Analysis, Malware Analysis, Data Science, Deep Learning

» **Doctoral Thesis:** "Title: Source Code Plagiarism Detection in Multi-Programming Languages"

Key features of research are:

- Source code Similarity in Multi-Programming Languages, i.e. C++, Java, C# using Latent variables and Topic Modeling
- Source Code Authorship Attribution (SCAA) across different source codes using scalable Deep learning model and Graph analysis
- Structural analysis of different types, i.e. C++, Java, C#, of source codes using Abstract Syntax Tree (AST)
- Semantic analysis of different types of source codes using Program Dependence Graph (PDG)
- Machine and Deep learning approaches for Source Code Plagiarism, Software forensics and Code Authorship
- Evaluate all frameworks for source code plagiarism identification using different public and private datasets.

09/2009-07/2012   **Master of Science (Computer Science)**
CECOS University, Hayatabad Phase 6, Peshawar, KPK, Pakistan,
(http://www.cecos.edu.pk/)
[Medium of Instruction: **English**] [Grade: **A**]
Key Courses are:

- Advanced Analysis of Algorithm
- Advanced Software Engineering
- Advanced Theory of Computation
- Advanced Computer Architecture
- Semantic Web
- Advanced Computer Network Security
- Wireless Communication

09/2005-09/2008   **Bachelor of Science (Computer Science)**
Peshawar University, Peshawar, KPK, Pakistan (http://www.uop.edu.pk/)
[Medium of Instruction: **English**] [Grade: **A**

Research Publications

SCI/SCIE Publications

1. **Farhan Ullah**, Gautam Srivastava, Shamsher Ullah, Kenji Yoshigoe, and Yue Zhao. "NIDS-VSB: Network Intrusion Detection System for VANET using Spark-Based Big Data Optimization and Transfer Learning." **IEEE Transactions on Consumer Electronics (2023).** (SCI, IF: 4.3) (URL: https://ieeexplore.ieee.org/document/10299718)

2. Yang, Yang, Haitao Shang, Nasir Jamal, and Farhan Ullah. "Video resources recommendation for online tourism teaching in interactive network." Mobile Networks and Applications (2023): 1-12. **Springer. (SCI, IF: 3.8)** (https://link.springer.com/article/10.1007/s11036-023-02193-9)

3. Iqbal, Muhammad Jamshaid, Muhammad Farhan, **Farhan Ullah**, Gautam Srivastava, and Sohail Jabbar. "Intelligent multimedia content delivery in 5G/6G networks: A reinforcement learning approach." Transactions on Emerging Telecommunications Technologies (2023), **Wiley. (SCI, IF: 3.31)** (URL: https://onlinelibrary.wiley.com/doi/10.1002/ett.4842)

4. **Farhan Ullah.**, Ullah, S., Srivastava, G. et al. NMal-Droid: network-based android malware detection system using transfer learning and CNN-BiGRU ensemble. Wireless Network (2023). https://doi.org/10.1007/s11276-023-03414-5, **Springer. IF: 3.0.** (URL: https://link.springer.com/article/10.1007/s11276-023-03414-5)

5. **Farhan Ullah**, Gautam Srivastava, Heng Xiao, Shamsher Ullah, Jerry Chun-Wei Lin, and Yue Zhao. "A Scalable Federated Learning Approach for Collaborative Smart Healthcare Systems with Intermittent Clients using Medical Imaging." **IEEE Journal of Biomedical and Health Informatics** (2023). doi: 10.1109/JBHI.2023.3282955. **IF: 7.7** (URL: https://ieeexplore.ieee.org/document/10144616)

6. Hamad Naeem, Shi Dong, Olorunjube James Falana, and **Farhan Ullah**. "Development of a Deep Stacked Ensemble With Process Based Volatile Memory Forensics for Platform Independent Malware Detection and Classification." Expert Systems with Applications (2023):119952, Elsevier. (SCI, IF:8.665)(URL: https://www.sciencedirect.com/science/article/pii/S0957417423004542)

7. Din, Nizamud, Abdul Waheed, Shamsher Ullah, Noor Ul Amin, Gautam Srivastava, **Farhan Ullah**, and Jerry Chun-Wei Lin. "A typology of secure multicast communication over 5 G/6 G networks." International Journal of Information Security (2023): 1-19. **Springer. (SCI, IF: 2.427)** (URL: https://link.springer.com/article/10.1007/s10207-023-00678-y)

8. **Farhan Ullah**, Shamsher Ullah, Gautam Srivastava, and Jerry Chun-Wei Lin. "IDS-INT: Intrusion detection system using transformer-based transfer learning for imbalanced network traffic." Digital Communications and Networks (2023), **Elsevier. (SCI, IF: 7.9)** (URL: https://www.sciencedirect.com/science/article/pii/S2352864823000640

9. **Farhan Ullah**, Xiaochun Cheng, Leonardo Mostarda, and Sohail Jabbar. "Android-IoT Malware Classification and Detection Approach Using Deep URL Features Analysis." Journal of Database Management (JDM) 34, no. 2 (2023): 1-26. **IGI Global, (SCI, CCF C, IF: 2.656),** (URL: https://www.igi-global.com/article/android-iot-malware-classification-and-detection-approach-using-deep-url-features-analysis/318414)

10. Shamsher Ullah, Jiangbin Zheng, Nizamud Din, Muhammad Tanveer Hussain, **Farhan Ullah**, and Mahwish Yousaf. "Elliptic Curve Cryptography; Applications, challenges, recent advances, and future trends: A comprehensive survey." Computer Science Review 47 (2023): 100530. **Elsevier, (SCI, IF: 8.757)** (URL: https://www.sciencedirect.com/science/article/pii/S1574013722000648)

11. **Farhan Ullah**, Shamsher Ullah, Gautam Srivastava, and Jerry Chun-Wei Lin. "Droid-MCFG: Android malware detection system using manifest and control flow traces with multi-head temporal convolutional network." Physical Communication 57 (2023): 101975. **Elsevier, (SCI, IF: 2.379)** (URL: https://www.sciencedirect.com/science/article/pii/S187449072200252X)

12. **Farhan Ullah**, Srivastava, G. and Ullah, S., 2022. A malware detection system using a hybrid approach of multi-heads attention-based control flow traces and image visualization. Journal of Cloud Computing, 11(1), pp.1-21, **Springer, (SCI, IF: 3.418)** (URL: https://journalofcloudcomputing.springeropen.com/articles/10.1186/s13677-022-00349-8)

13. Shamsher Ullah, Zheng Jiangbin, Muhammad Tanveer Hussain, Nizamud Din, **Farhan Ullah**, and Muhammad Umar Farooq. "A perspective trend of hyperelliptic curve cryptosystem for lighted weighted environments." Journal of Information Security and Applications 70(2022): 103346. **Elsevier, (CCF: C, SCI, IF: 4.96)**
(URL: https://www.sciencedirect.com/science/article/abs/pii/S2214212622001910)

14. Bukhari, Maryam, Sadaf Yasmin, Adnan Habib, Xiaochun Cheng, **Farhan Ullah**, Jaeseok Yoo, and Daewon Lee. "A Novel Framework for Melanoma Lesion Segmentation Using Multiparallel Depthwise Separable and Dilated Convolutions with Swish Activations." Journal of Healthcare Engineering 2023 (2023). **(SCI, IF: 3.822)** (URL: https://www.hindawi.com/journals/jhe/2023/1847115/)

15. **Farhan Ullah**, Amjad Alsirhani, Mohammed Mujib Alshahrani, Abdullah Alomari, Hamad Naeem, and Syed Aziz Shah. "Explainable Malware Detection System Using Transformers-Based Transfer Learning and Multi-Model Visual Representation." Sensors 22, no. 18 (2022): 6766. **(SCI, IF: 3.847)** (URL: https://www.mdpi.com/1424-8220/22/18/6766)

16. Naeem, Hamad, Bandar M. Alshammari, and **Farhan Ullah**. "Explainable Artificial Intelligence-Based IoT Device Malware Detection Mechanism Using Image Visualization and Fine-Tuned CNN-Based Transfer Learning Model." Computational Intelligence and Neuroscience 2022 (2022). **(SCI, IF: 3.120)** (URL: https://www.hindawi.com/journals/cin/2022/7671967/)

17. **Farhan Ullah**, Shamsher Ullah, Muhammad Rashid Naeem, Leonardo Mostarda, Seungmin Rho, and Xiaochun Cheng. "Cyber-threat detection system using a hybrid approach of transfer learning and multi-model image representation." Sensors 22, no. 15 (2022): 5883. **(SCI, IF: 3.847)** (URL: https://www.mdpi.com/1424-8220/22/15/5883)

18. Naeem, Hamad, Xiaochun Cheng, **Farhan Ullah**, Sohail Jabbar, and Dong Shi. "A Deep Convolutional Neural Network Stacked Ensemble for Malware Threat Classification in Internet of Things." Journal of Circuits, Systems and Computers (2022). **(SCI, IF: 1.333),** (URL: https://www.worldscientific.com/doi/10.1142/S0218126622503029)

19. Ali, Rahman, Asmat Ali, Farkhund Iqbal, Mohammed Hussain, and **Farhan Ullah**. "Deep Learning Methods for Malware and Intrusion Detection: A Systematic Literature Review." Security & Communication Networks (2022). **(SCI, IF: 1.968)** (URL: https://www.hindawi.com/journals/scn/2022/2959222/)

20. **Farhan Ullah**, Jihoon Moon, Hamad Naeem, and Sohail Jabbar. "Explainable artificial intelligence approach in combating real-time surveillance of COVID19 pandemic from CT scan and X-ray images using ensemble model." The Journal of Supercomputing (2022): 1-26, **Springer, (CCF C, SCI, IF: 2.474)** (URL: https://link.springer.com/article/10.1007/s11227-022-04631-z)

21. **Farhan Ullah**, Muhammad Rashid Naeem, Hamad Naeem, Xiaochun Cheng, and Mamoun Alazab. "CroLSSim: Cross-language software similarity detector using hybrid approach of LSA-based AST-MDrep features and CNN-LSTM model." International Journal of Intelligent Systems (2022), Wiley. **(SCI, IF: 8.709)** (URL: https://onlinelibrary.wiley.com/doi/abs/10.1002/int.22813)

22. **Farhan Ullah**, Naeem, M. R., Bajahzar, A. S., & Al-Turjman, F. (2021). IoT-based Cloud Service for Secured Android Markets using PDG-based Deep Learning Classification. **ACM** Transactions on Internet Technology (TOIT), 22(2), 1-17. **(CCF B, SCI, IF: 3.135)** (URL: https://dl.acm.org/doi/10.1145/3418206)

23. **Farhan Ullah**, Sohail Jabbar, and Leonardo Mostarda. "An intelligent decision support system for software plagiarism detection in academia." International Journal of Intelligent Systems, **Wiley**, (IF: **10.312,** SCI) (URL: https://onlinelibrary.wiley.com/doi/10.1002/int.22399)

24. **Farhan Ullah**, Muhammad Rashid Naeem, Leonardo Mostarda, and Syed Aziz Shah. "Clone detection in 5G-enabled social IoT system using graph semantics and deep learning model." International Journal of Machine Learning and Cybernetics, **Springer**:1-13 **(IF: 3.75,** SCI) (URL: https://link.springer.com/article/10.1007/s13042-020-01246-9)

25. **Farhan Ullah**, Fadi Al-Turjman, and Anand Nayyar. "IoT-based green city architecture using secured and sustainable android services." Environmental Technology & Innovation, **Elsevier** (2020): 101091. **(IF: 3.356,** SCI) (URL: https://www.sciencedirect.com/science/article/abs/pii/S2352186420313912)

26. **Farhan Ullah**, Sohail Jabbar, and Fadi Al-Turjman. "Programmers' de-anonymization using a hybrid approach of abstract syntax tree and deep learning." Technological Forecasting and Social Change, **Elsevier** 159 (2020): 120186. **IF: 5.846,** SSCI) (URL: https://www.sciencedirect.com/science/article/pii/S004016252031012X#!)

27. **Farhan Ullah**, Junfeng Wang, Sohail Jabbar, Fadi Al-Turjman, Mamoun Alazab, "Source Code Authorship Attribution Using Hybrid Approach of Program Dependence Graph and Deep Learning Model", **IEEE Access** Vol 7 (2019: 141987-141999) **(IF: 4.098, SCI)** (URL: https://ieeexplore.ieee.org/document/8848478)

28. **Farhan Ullah**, Hamad Naeem, Sohail Jabbar, Shehzad Khalid, Muhammad Ahsan Latif, Fadi Al-turjman, and Leonardo Mostarda. "Cyber Security Threats Detection in Internet of Things Using Deep Learning Approach." **IEEE Access** Vol 7 (2019): 124379-124389. **(IF: 4.098, SCI)** (URL: https://ieeexplore.ieee.org/document/8848478)

29. **Farhan Ullah**, Junfeng Wang, Muhammad Farhan, Sohail Jabbar, Zhiming Wu, and Shehzad Khalid. "Plagiarism detection in students' programming assignments based on semantics: multimedia e-learning based smart assessment methodology." Multimedia Tools and Applications, **Springer** (2018): 1-18. **(CCF C, IF: 2.101, SCI)** (URL : https://link.springer.com/article/10.1007/s11042-018-5827-6)

30. **Farhan Ullah**, Junfeng Wang, Muhammad Farhan, Masood Habib, and Shehzad Khalid. "Software plagiarism detection in multiprogramming languages using machine learning approach." Concurrency and Computation: Practice and Experience, **Wiley** (2018): e5000. **(CCF C, IF: 1.167, SCI)** (URL: https://onlinelibrary.wiley.com/doi/abs/10.1002/cpe.5000)

31. **Farhan Ullah**, Muhammad Asif Habib, Muhammad Farhan, Shehzad Khalid, Mehr Yahya Durrani, and Sohail Jabbar. "Semantic interoperability for big-data in heterogeneous IoT infrastructure for healthcare." Sustainable cities and society, **Elsevier** 34 (2017): 90-96 **(IF: 4.624, SCI)** (URL: https://www.sciencedirect.com/science/article/abs/pii/S221067071730255X)

32. **Farhan Ullah**, Junfeng Wang, Muhammad Farhan, Sohail Jabbar, Muhammad Kashif Naseer, and Muhammad Asif. "LSA Based Smart Assessment Methodology for SDN Infrastructure in IoT Environment." International Journal of Parallel Programming, **Springer**, (2018): 1-16. **(SCI, IF: 1.258)** (URL: https://link.springer.com/article/10.1007/s10766-018-0570-1)

33. **Farhan Ullah**, Hamad N, Muhammad R N, Fadi A, Shehzad K, Sohail J. Detection of Clone Scammers in Android Markets using IoT-based Edge Computing, Transactions on Emerging Telecommunications Technologies, **Wiley. (SCI, IF:1.258)** (URL: https://onlinelibrary.wiley.com/doi/abs/10.1002/ett.3791)

34. **Farhan Ullah**, Abdullah B, Hamza A, Muhammad F, Hamad N, Sabahat H. B, Kaleem R M. An E-Assessment Methodology Based on Artificial Intelligence Techniques to Determine Students' Language Quality and Assignments' Plagiarism, Intelligent Automation & Soft Computing, Taylor & Francis, 2019. **(SCI, IF: 0.790)** (URL: http://autosoftjournal.net/paperShow.php?paper=100000138&q=)

35. Jamal, Nasir, Chen Xianqiao, Fadi Al-Turjman, and **Farhan Ullah**. "A Deep Learning–based Approach for Emotions Classification in Big Corpus of Imbalanced Tweets."**ACM** Transactions on Asian and Low-Resource Language Information Processing 20, no. 3 (2021): 1-16. **(IF: 1.413, SCI, CCF C)** (URL: https://dl.acm.org/journal/tallip)

36. Khan, Mansoor, Chuan He, Tianqi Liu, and **Farhan Ullah**. "A New Hybrid Approach of Clustering Based Probabilistic Decision Tree to Forecast Wind Power on Large Scales." Journal of Electrical Engineering & Technology 16, no. 2 (2021): 697-710. **(IF: 1.069, SCI)** (URL: https://link.springer.com/article/10.1007/s42835-020-00616-1)

37. Li, Jing, Jiang Wang, and **Farhan Ullah**. "An End-to-End Task-Simplified and Anchor-Guided Deep Learning Framework for Image-Based Head Pose Estimation." **IEEE Access** 8 (2020): 42458-42468. **(IF: 4.098, SCI)** (URL: https://ieeexplore.ieee.org/document/9019692)

38. Wang Jiang, **Farhan Ullah**, Ying Cai, and Jing Li. "Non-Stationary Representation for Continuity Aware Head Pose Estimation Via Deep Neural Decision Trees." **IEEE Access,** Vol 7(2019:181947-181958) **(IF: 4.098, SCI)** (URL: https://ieeexplore.ieee.org/document/8932455)

39. Hamad N, Farhan **Ullah**, Sohail J, Danish V, Muhammad R N. Malware Detection in Industrial Internet of Things based on Image Visualization and Deep Learning, Ad Hoc Network, **Elsevier. (IF: 3.490, SCI, CCF C)** (URl: https://www.sciencedirect.com/science/article/abs/pii/S1570870519306948)

40. Naeem, Muhammad Rashid, Tao Lin, Hamad Naeem, **Farhan Ullah**, and Saqib Saeed. "Scalable mutation testing using predictive analysis of deep learning model." **IEEE Access,** Vol 7(2019: 158264 - 158283)
    (IF: 4.098, SCI) (URL: https://ieeexplore.ieee.org/document/8886413)

41. Hamad N, Bing G, Danish V, Rashid M. N, **Farhan Ullah**, Hamza A et al. Identification of malicious code variants based on image visualization, Journal of Computers and Electrical Engineering, **Elsevier**, 2019, pp. 225-237. **(IF: 2.189, SCI)**
    (URL: https://www.sciencedirect.com/science/article/pii/S004579061733776X)

42. Hamad N, Bing G, **Farhan Ullah**, Rashid M. N. A Cross-Platform Malware Variant Classification based on Image Representation, KSII Transactions on Internet and Information Systems, **Korean Internet Society**, 2019, pp.3756-3777. **(IF: 0.711, SCI)** (URL: http://itiis.org/digital-library/manuscript/2446)

43. Khan, Mansoor, Tianqi Liu, and **Farhan Ullah**. "A New Hybrid Approach to Forecast Wind Power for Large Scale Wind Turbine Data Using Deep Learning with TensorFlow Framework and Principal Component Analysis." Energies 12, no. 12 (2019): 2229. **(IF: 2.707, SCI)** (URL: https://www.mdpi.com/1996-1073/12/12/2229)

44. Rahman, Ziaur, Muhammad Aamir, Yi-Fei Pu, **Farhan Ullah**, and Qiang Dai. "A Smart System for Low-Light Image Enhancement with Color Constancy and Detail Manipulation in Complex Light Environments." Symmetry 10, no. 12 (2018): 718.
    (IF: 2.143, SCI) (URL: https://www.mdpi.com/2073-8994/10/12/718)

45. Jabbar, Sohail, **Farhan Ullah**, Shehzad Khalid, Murad Khan, and Kijun Han. "Semantic interoperability in heterogeneous IoT infrastructure for healthcare." Wireless Communications and Mobile Computing 2017 (2017). **(IF: 1.396, SCI)**
    (URL: https://www.hindawi.com/journals/wcmc/2017/9731806/)

46. Razzaq Malik, Kaleem, Masood Habib, Shehzad Khalid, **Farhan Ullah**, Muhammad Umar, Taimur Sajjad, and Awais Ahmad. "Data compatibility to enhance sustainable capabilities for autonomous analytics in IoT." Sustainability 9, no. 6 (2017): 877.
    (IF: 2.592, SCI) (URL: https://www.mdpi.com/2071-1050/9/6/877)

47. Razzaq Malik, Kaleem, Tauqir Ahmad, Muhammad Farhan, **Farhan Ullah**, Kashif Amjad, and Shehzad Khalid. "Multiagent semantical annotation enhancement model for iot-based energy-aware data." International Journal of Distributed Sensor Networks 12, no. 6 (2016): 9103265. **(IF: 1.614, SCI)** (URL: https://journals.sagepub.com/doi/full/10.1155/2016/9103265)
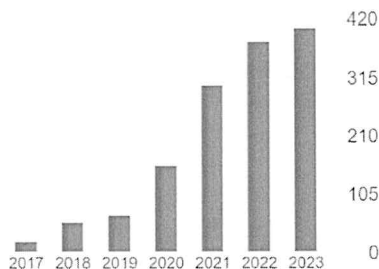
EI/Scopus Publications
1. Muhammad A, Yi-Fei P, Ziaur R, Waheed A. A, Hamad N, **Farhan Ullah**, Aymen M. B.A hybrid proposed framework for object detection and classification," Journal of Information Processing Systems, 14, 5, 2018, 1176-1194. **(DOI:** 10.3745/JIPS.02.0095) **[EI]**

Google Scholar Citations: https://scholar.google.com/citations?user=Cp9jHJYAAAAJ&hl=en

Technical Talks and Training

- Keynote speaker in 2nd International Conference on Internet of Things, Communication and Intelligent Technology (IoTCIT 2023), November 3-5, 2023, Xuzhou, Jiangsu, China (http://www.iotcit.org/keynote-speakers-2023/)

- Delivered technical talk in 2023 International Conference on Cyber-physical Social Intelligence (ICCSI) October 20-23, 2023, Xi'an, China (https://agist.org/iccsi2023/Organizing_committee.html)

- Participated as a Host in the 8th **International Lecture Series, School of Software, Northwestern Polytechnical University**, 19th October, 2023.

- Keynote Talk in Participating in the 8th **International Lecture Series, School of Software, Northwestern Polytechnical University**, 19th October, 2023.

- Participated and Taught **Joint Human Machine Learning** course in the **Global school organized by International School Office (ISO)**, Northwestern Polytechnical University, September, 2023.

- Keynote Talk in **9th edition of the Science Summit around the 78th United, Nations General Assembly (UNGA78) organized by Quaid-I-Azam University, Islamabad, Pakistan**, September 12-29 2023.

- Completed training "**Oxford EMI Certificate for University Lecturers**", 3rd July to 7th July, 2023.

- Delivered technical talk in International Conference on Mobile Internet, Cloud Computing and Information Security (MICCIS 2023), Nanjing, April 7-9, 2023. (http://www.miccis.org/committee/)

- Delivered a talk to present the School of Software in Exchange and Research Internship Program between Northwestern Polytechnical University and Engineering School of Digital Technology, Efrei Paris, France. (https://eng.efrei.fr/)

- Presented School of Software, for overseas admission promotion organized by **International School Office (ISO)**, Northwestern Polytechnical University, 22nd February, 2023.

- Participated and Taught **Joint Human Machine Learning** course in the **Global summer school organized by International School Office (ISO)**, Northwestern Polytechnical University, August, 2022

- Keynote Talk in Participating in the 7th **International Lecture Series, School of Software, Northwestern Polytechnical University**, 14th October, 2022.

- Presented School of Software, for overseas admission promotion organized by **International School Office (ISO)**, Northwestern Polytechnical University, 10th February, 2022.

- Keynote Talk in Participating in the 6th **International Lecture Series, School of Software, Northwestern Polytechnical University**, 14th October, 2021.

- Talk in Participating in the **5th International Lecture Series, School of Software, Northwestern Polytechnical University**, 13th October, 2020.

- Completed the 5 days professional training organized by National University Singapore (NUS) **"Teacher Training Programme: Becoming Effective University Teachers in the Education 4.0 Era"** on 21th January, 2021.

External Examiner

- Doctoral thesis examiner at department of computer science, University of Engineering and Technology (UET), Lahore, Punjab, Pakistan (2020). **Scholar**: Ammar Rafiq, **Title**: "Qos Based Algorithm for Efficient Bandwidth Utilization in NF-EPON"

- Doctoral thesis examiner at department of computer science, University of Engineering and Technology (UET), Lahore, Punjab, Pakistan (2023). **Scholar**: Nisar Ahmed, **Title**: "Perceptual Image Quality Assessment Using Biological Inspired Machine Learning Methods"

Fellowships/Awards/Grants/Honors

- Honored to be selected as **top 2% scientists (2023)** worldwide by Elsevier and Stanford University.

- **Outstanding Foreign Teaching Faculty award 2021**, School of Software, Northwestern Polytechnical University, Xian, China.

- **Landmark Achievement/ Research Award 2021**, School of Software, Northwestern Polytechnical University, Xian, China.

- **PI: Research Startup Funding** for Research and Development (R&D) program, School of Software, Northwestern Polytechnical University, Xian, China (Grant No. G2020KY05107, G2022WD01004) Grant amount: 300,000 RMB.

- **Co-PI:** of Science and Technology Project of Taicang (2020), Jiangsu, PR. China (Grant No. TC2020JC07), Grant amount: 50,000 RMB.

- **Research Productivity Award (RPA)** 2016, from COMSATS University Islamabad, Pakistan

- **Chinese Government Scholarship for Ph.D. Degree at Sichuan University**
  - Fellowship to support doctorate study at Sichuan University, China [September 2017-June 2020]

Roles in Journals and International Conferences

- **Lead Guest Editor**, Data Science and Management, Elsevier. (https://www.keaipublishing.com/en/journals/data-science-and-management/)

- **Lead Guest Editor**, Electronics Journal, SCIE. (https://www.mdpi.com/journal/electronics/special_issues/3O495Z3JCG)

- **Special Session (SS) / Workshop**, The 2023 International Conference on Cyber-Physical Social Intelligence (ICCSI 2023), October 20-23, 2023, Xian, China. (https://agist.org/iccsi2023/acceptedSS.html)

- **Program Chair**, International Conference on Mobile Internet, Cloud Computing and Information Security (MICCIS 2023), Nanjing, April 7-9, 2023. (http://www.miccis.org/committee/)

- **Publicity Chair**, The 18th International Conference on Future Networks and Communications August 14-16, 2023, Halifax, Nova Scotia, Canada, (http://cs-conferences.acadiau.ca/fnc-23/#organizingCommittees)

- **Publicity Chair**, The 14th International Conference on Ambient Systems, Networks and Technologies March 15 - 17, 2023, Leuven, Belgium, (http://cs-conferences.acadiau.ca/ant-23/#organizingCommittees)

- **Academic Editor**, Security and Communication Networks Journal, SCIE, CCF C Category. Joint Publishers of WILEY & Hindawi. (https://www.hindawi.com/journals/scn/)

- **Editor**, KSII Transactions on Internet and Information Systems, SCIE (http://www.itiis.org/about)

- **Lead Guest Editor**, Security and Communication Networks Journal, SCIE, CCF C Category. Joint Publishers of WILEY & Hindawi. (https://www.hindawi.com/journals/scn/)

- **Lead Guest Editor,** CMC-Computers, Materials & Continua, Tech Science Press, SCIE (https://www.techscience.com/cmc/)

- **Guest Editor,** Wireless Communication and Mobile Computing Journal, SCIE, CCF C Category, Hindawi.(https://www.hindawi.com/journals/wcmc/)

- **Guest Editor**, Future Internet Journal, ESCI, EI Compendex. (https://www.mdpi.com/journal/futureinternet)

- Program Chair Committee Member-ICFNDS 2019
  - 3rd International Workshop on Smart Technologies (WOSTECH 2019) - July 01 – 02, 2019, University of Paris Sud, France.

- Reviewer and Technical Program Committee Member-ICFNDS 2019
  - 2nd International Workshop on Smart Technologies (WOSTECH 2019) - July 01 – 02, 2018, University of Paris Sud, France

- Reviewer-IEEE IoT Magazine Journal, IEEE

- Reviewer-Sustainability Cities and Society, Elsevier

- Reviewer-Computer Network Journal, Elsevier

Technical/Development Skills

- **Programming Languages:** R, Python (Tensor Flow API), C, PHP, JavaScript, CSS
- **Databases:** MySQL, Oracle, MS Access
- **Tools:** Weka, Rapid Miner, Microsoft Visio, Origin pro, Endnote

Languages

» English (Official Language) » Urdu (National Language) » Chinese (Minor Speaking)

Signature: ꝋ𝓗𝓛𝓢𝓢𝓛𝓢

References:

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