

# Muhammad Faran Majeed (Ph.D.)

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## Current Position

*Head of the Department* - Department of Computer Science, Kohsar University Murree, Punjab, Pakistan.

*HEC Approved Supervisor* - MS/Ph.D. Approved Supervisor by Higher Education Commission of Pakistan.

## Research Interests

Mobile Ad hoc Networks, Future Internet Architectures, Vehicular Ad hoc Networks, Sensor Networks, Internet of Things, Agile Software, and Cloud Computing.

## Education

*Ph.D.* - Computer Science **with Distinction** Awarded: May 2017  
*Dissertation Title* - Information-centric Networking Scheme for Proactive Content Dissemination in Named Data Mesh Networks.

*Doctoral Advisory Committee* - Prof. Matthew N. Dailey (Advisor), Prof. Kanchana Kanchanasut (Internet Hall of Fame), Dr. Apinun Tunpan, Dr. Attaphongse Taparugssanagorn  
Asian Institute of Technology, Bangkok, Thailand.

*M.S.* - Computer Science **with Distinction** Awarded: Feb 2011  
CECOS University of IT & Emerging Sciences, Peshawar, Pakistan.

## Honors, Awards, and Grants

- *Outstanding Reviewer Award* - Computer Communications (ComComm) 2018.
- *Outstanding Reviewer Award* - Journal of Network & Computer Applications (JNCA) 2017.
- *Distinguished Student Award* - Graduation Speaker of 127<sup>th</sup> Graduation Ceremony Held at Asian Institute of Technology, Thailand.
- *ICN 2016 Student Travel Grant* - 3rd ACM Conference on Information-Centric Networking (ICN 2016), Japan.
- *Summer School Travel Grant* - Interdisciplinary Center for Scientific Computing, Heidelberg University, Germany (2016).
- *Full Travel Grant, ASSET 2016* - 1st Asian Students Symposium on Emerging Technologies, SIG-Mobile, Singapore.
- *First Runner-up* - Academic Olympiad organized by Student Union, Asian Institute of Technology, Thailand, Jan 2015.
- *First Runner-up* - Academic Olympiad organized by Student Union, Asian Institute of Technology, Thailand, Dec 2015.
- *Best Poster Award* - Career Fair & Research Exhibition organized by Career Center, Asian Institute of Technology, Thailand, 2014.
- *Full Ph.D. Scholarship* - Faculty Development Program, Shaheed BB University Sheringal, Khyber Pakhtun-khwa, Pakistan, 2013.
- *Distinguished Student Award* - MS(CS), CECOS University of IT & Emerging Sciences Peshawar, Khyber Pakhtunkhwa, Pakistan, 2011.
- *Distinguished Student Award* - Intermediate Examinations, B.I.S.E. Kohat, Khyber Pakhtunkhwa, Pakistan, 2003.

## Birth date

April 24, 1985

## International Journal Publications

1. Ali, S.M.; Sovuthy, C.; Noghianian, S.; Saeidi, T.; **Majeed, M.F.**; Hussain, A.; Masood, F.; Khan, S.M.; Shah, S.A.; Abbasi, Q.H. (2022), Design and Evaluation of a Button Sensor Antenna for On-Body Monitoring Activity in Healthcare Applications. *Micromachines* 2022, 13, 475.  
<https://doi.org/10.3390/mi13030475>  
(Impact Factor 2.89)

2. Khan, R.A.; Abrar, M.F.; Baseer, S.; **Majeed, M.F.**; Usman, M.; Ur Rahman, S.; Cho, Y.-Z. (2021), Practices of Motivators in Adopting Agile Software Development at Large Scale Development Team from Management Perspective. *Electronics*, 2021, 10, 2341.  
<https://doi.org/10.3390/electronics10192341>  
(Impact Factor 2.39)
3. Saeed, F., Mehmood, A., **Majeed, M. F.**, Maple, C., Saeed, K., Khattak, M. K., ... & Epiphaniou, G. (2021), Smart delivery and retrieval of swab collection kit for COVID-19 test using autonomous Unmanned Aerial Vehicles. *Physical Communication*, 101373, 2021.  
<https://doi.org/10.1016/j.phycom.2021.101373>  
(Impact Factor 1.81)
4. Rehman, Ou, Abbasi, IA, ..., **Majeed, MF**, Sikandar, A, (2021), SS-Drop: A Novel Message Drop Policy to Enhance Buffer Management in Delay Tolerant Networks, *Wireless Communications and Mobile Computing*, vol. 2021, Article ID 9773402, 12 pages, 2021.  
<https://doi.org/10.1155/2021/9773402>  
(Impact Factor 2.33)
5. Abrar, MF, Ali, S, **Majeed, MF**, et al. (2021), A framework for modeling structural association among De-Motivators of scaling agile. *Wireless Communications and Mobile Computing, Journal of Software: Evolution and Process*, 2021. e2366  
<https://onlinelibrary.wiley.com/doi/10.1002/smr.2366>  
(Impact Factor 1.97)
6. **Majeed, M. F.**, Abbasi, I. A., Ali, S., et al. (2021), From Digital Divide to Information Availability: A Wi-Fi-Based Novel Solution for Information Dissemination. *Wireless Communications and Mobile Computing*, 2021, 19.  
<https://doi.org/10.1155/2021/6698246>  
(Impact Factor 2.33)
7. Khattak, M. K., Fahim, H., **Majeed, M. F.**, Rehman, E., & Javaid, S. (2020), Lookaside: Augmenting the Performance of Packet Processing Pipeline. *IEEE Systems Journal*, 1–4.  
<https://doi.org/10.1109/jsyst.2020.3000999>  
(Impact Factor 3.98)
8. Faisal Abrar, M., Sohail, M., Ali, S., **Faran Majeed, M.**, Ali Shah, I., Rashid, N., & Ullah, N. (2020), De-motivators for the adoption of agile methodologies for large-scale software development teams: An SLR from management perspective. *Journal of Software: Evolution and Process*, 32(12), e2268.  
<https://doi.org/10.1002/smr.2268>  
(Impact Factor 1.97)
9. Abubakar, R., Aldegeishem, A., **Faran Majeed, M.**, Mehmood, A., Maryam, H., Ali Alrajeh, N., Jawad, M. (2020), An Effective Mechanism to Mitigate Real-Time DDoS Attack. *IEEE Access*, 8, 126215–126227.  
<https://doi.org/10.1109/ACCESS.2020.2995820>  
(Impact Factor 4.09)
10. M. K. Khattak, Y. Tang, H. Fahim, E. Rehman and **M. F. Majeed** (2020), Effective Routing Technique: Augmenting Data Center Switch Fabric Performance. *IEEE Access*, vol. 8, pp. 37372–37382.  
[doi:10.1109/ACCESS.2020.2973932](https://doi.org/10.1109/ACCESS.2020.2973932).  
(Impact Factor 4.09)
11. Muhammad, S., Dailey, M. N., Farooq, M., **Majeed, M. F.**, & Ekpanyapong, M. (2020). Spec-Net and Spec-CGAN: Deep learning models for specularity removal from faces. *Image and Vision Computing*, 93, 103823.  
<https://doi.org/10.1016/j.imavis.2019.11.001>  
(Impact Factor 3.74)

12. Abrar, M. F., Khan, M. S., Ali, S., Ali, U., **Majeed, M. F.**, Ali, A., ... Rasheed, N. (2019). Motivators for Large-Scale Agile Adoption from Management Perspective: A Systematic Literature Review. *IEEE Access*, 7, 22660–22674.  
<https://doi.org/10.1109/ACCESS.2019.2896212>  
(Impact Factor 4.09)
13. Ali, S., Ullah, N., Abrar, M. F., **Majeed, M. F.**, Umar, M. A., & Huang, J. (2019). Barriers to Software Outsourcing Partnership Formation: An Exploratory Analysis. *IEEE Access*, 7, 164556–164594.  
<https://doi.org/10.1109/ACCESS.2019.2949919>  
(Impact Factor 4.09)
14. Ali, U., Mehmood, A., **Majeed, M. F.**, Muhammad, S., Khan, M. K., Song, H., & Malik, K. M. (2019). Innovative Citizen's Services through Public Cloud in Pakistan: User's Privacy Concerns and Impacts on Adoption. *Mobile Networks and Applications*, 24(1), 47–68, 2019  
<https://doi.org/10.1007/s11036-018-1132-x>  
(Impact Factor 3.42)
15. Hannan, A., Arshad, S., Azam, M. A., Loo, J., Ahmed, S. H., **Majeed, M. F.**, & Shah, S. C. (2018). Disaster management system aided by named data network of things: Architecture, design, and analysis. *Sensors (Switzerland)*, 18(8).  
<https://doi.org/10.3390/s18082431>  
(Impact Factor 3.40)
16. Khan, M., **Majeed, M. F.**, Muhammad, S. & Mah e No (2017). Evaluating radio propagation models using destination-sequenced distance-vector protocol for MANETs. *Bahria University Journal of Information & Communication Technologies (BUJICT)*, 10(1).  
<http://ojs.bahria.edu.pk/index.php/bujict/article/view/39>  
*Higher Education Commission (HEC) "Y" Category Journal.*
17. **Majeed, M. F.**, Ahmed, S. H., & Dailey, M. N. (2017). Enabling push-based critical data forwarding in vehicular named data networks. *IEEE Communications Letters*, 21(4), 873–876.  
<https://doi.org/10.1109/LCOMM.2016.2642194>  
(Impact Factor 3.43)
18. **Majeed, M. F.**, Dailey, M. N., Khan, R., & Tunpan, A. (2017). Pre-caching: A proactive scheme for caching video traffic in named data mesh networks. *Journal of Network and Computer Applications*, 87, 116–130.  
<https://doi.org/10.1016/j.jnca.2017.03.012>  
(Impact Factor 6.28)
19. **Majeed, M. F.**, Hassan Ahmed, S., Muhammad, S., Song, H., & Rawat, D. B. (2017). Multimedia streaming in information-centric networking: A survey and future perspectives. *Computer Networks*, 125, 103–121.  
<https://doi.org/10.1016/j.comnet.2017.05.030>  
(Impact Factor 4.47)

### International Conference Proceedings & Book Chapters

1. Mahmood Khan, **Muhammad Faran Majeed**, Amjad Mehmood, Khalid Saeed, and Jaime Lloret (July 2019), "The Impact of Mobility Speed over Varying Radio Propagation Models Using Routing Protocol in MANET," In *International Conference on Artificial Intelligence and Symbolic Computation* (pp. 277-288). Springer.
2. Siraj Muhammad, Matthew N. Dailey, Imari Sato and **Muhammad Faran Majeed** (June 2018), "Handling Specularity in Intrinsic Image Decomposition," In *Proceedings of International Conference on Image Analysis and Recognition*, (pp. 107-115).
3. Umar Ali, **Muhammad Faran Majeed** and Vatcharaporn Esichaikul, (July 2016) "Predicting Citizen's Behavior Intension of Cloud-based Government-to-Citizen (G2C) Services Using UTAUT Model," In *Proceedings of 2nd International Conference on Emerging Trends in Multidisciplinary*

*Research (ETMR 2016)*, Bangkok, Thailand.

4. Tran Thi Nhu Ngoc, Jayant K. Routray, Mokbul Morshed Ahmad, **Muhammad Faran Majeed** and Shahab e Saqib (July 2016), “The Roles of Kinship Tie in Woodcarving Handicraft Production: A Case Study From Vietnam,” In *Proceedings of 2nd International Conference on Emerging Trends in Multidisciplinary Research (ETMR 2016)*, Bangkok, Thailand.
5. **Muhammad Faran Majeed**, Syed Hassan Ahmed, Siraj Muhammad, Matthew N. Dailey, (June 2016) “PDF: Push-based Data Forwarding in Vehicular NDN,” In *Proceedings of the 14th Annual International Conference on Mobile Systems, Applications, and Services Companion*, Singapore.
6. **Muhammad Faran Majeed**, Vatcharaporn Esichaikul and Mah e No (March 2015), “Use of Multi-agent Based Platform for Providing Document-Centric Interoperability in the Realm of E-government,” In *Proceedings of 6th International Conference on Advances in Information Technology*, (IAIT), Bangkok, Thailand.
7. Amjad Mehmood, **Muhammad Faran Majeed**, Noor ur Rehman, Tanveer Sher and Akbar Khanan (July 2011), “Inter-Operation between IPv4 and IPv6 by Embedding an Agent-Oriented Technology at Cloud Computing,” In *Proceedings of International Conference on Business and Information*, Bangkok, Thailand.
8. Amjad Mehmood, Saqib Khan, Faheem Khan, Muhammad Yaseen and **Muhammad Faran Majeed** (Nov 2011), “Inter-Operability for Open Clouds via Adaptive Transport Protocols at Multi-Agent Systems (MASs),” In *Proceedings of 3rd International Conference on Computer Technology and Development*, vol. 3, Chengdu, China.

### Professional History

Kohsar University — Murree, Punjab, Pakistan

- *Head of the Department*

2022 – Till date

- Serving as Head of the Department of Computer Science.

Shaheed Benazir Bhutto University — Sheringal, Khyber Pakhtunkhwa, Pakistan

- *Lecturer*

2012 – 2022

- Won faculty development program (FDP) scholarship from SBBU and joined AIT as Ph.D. scholar between 2013 to 2017.

Shaheed Benazir Bhutto University — Sheringal, Khyber Pakhtunkhwa, Pakistan

- *Director IT*

2017 – 2018

- Overseeing the infrastructure of technical operations, managing a team of IT employees, tracking technology in order to achieve business goals, eliminating security risks, increasing user satisfaction, and maintaining operations and systems.

Helpdesk, Asian Institute of Technology — Thailand

- *Student Assistant*

2013 – 2017

- Troubleshooting computer systems, ER software installation and troubleshooting, plagiarism checking and report generation for graduate and undergraduate students.

Qurtuba University of Science & Information Technology — Peshawar, Khyber Pakhtunkhwa, Pakistan

- *Lecturer*

2008 – 2012

- *Graduate courses*: Network Programming in C#.Net, Advance Programming in Java, Operating System Concepts, Introduction to Computers, Artificial Intelligence, Advance Computer Networks, Introduction to C/C++.

Kohat University of Science & Technology — Kohat, Khyber Pakhtunkhwa, Pakistan

- *Teaching Assistant* 2007 – 2008
- Preparing and delivering labs, attending and evaluating students' presentations, and helping students in lectures.

Concern For Community — Peshawar, Khyber Pakhtunkhwa, Pakistan

- *Assistant Programmer* 2003 – 2005
- Designed, developed, and maintained database of HR and the community people.
  - Provided assistance in Computer Hardware and Software troubleshooting.

### **M.Phil./MScS Theses Supervised**

1. *Mr. Ibrar Hussain* - Thesis Title "The Effect of Efficient Wi-Fi-based Educational Content Distributor for Schools: A Case Study of Girls Schools of Chitral".
2. *Mr. Fahad Saeed* - Thesis Title "Efficient Asthma Kit Delivery Using Autonomous Unmanned Aerial Vehicle".
3. *Mr. Alam Zeb* - Thesis Title "A Caption-based Approach for Creating Semantic Video Timeline".

### **Membership of Academic Bodies**

- Board of Studies, Department of Computer Science, University of Engineering & Technology Mardan, Pakistan. (2018 – 2021)
- Board of Studies, Department of Computer Science, Shaheed Benazir Bhutto University Sheringal, Pakistan. (2019 – 2022)
- Academic Council, Shaheed Benazir Bhutto University Sheringal, Pakistan. (2019 – 2022)
- Syndicate, Shaheed Benazir Bhutto University Sheringal, Pakistan. (2019 – 2022)

### **Certifications**

- *CCNA* - CISCO Certified Network Associate, (2008).
- *Certification* - One Year Certification on Computer Hardware & Networking at Institute of Computer Sciences, Software Training and Development, Pakistan (2003).
- *Certification* - One Year Certification on Office Automation, Adobe Photoshop, Inpage, Corel Draw, GW Basic, R-Base and D-Base at Institute of Computer Sciences, Software Training and Development, Pakistan (2003).

### **Workshops & Seminars Attended**

- *Workshop* - One Week Workshop on Wireless Sensor Networks Organized by interERLab and NSRC (USA) at Asian Institute of Technology, Thailand, (2015).
- *Seminar* - Advanced Studies Seminar on Climate, Energy and Food Security delivered by United Nations University at Asian Institute of Technology, Thailand, (2014).
- *Workshop* - Two Days Workshop on MatLab at Asian Institute of Technology, Thailand, (2014)
- *Workshop* - Two Days Workshop on Academic Writing at Asian Institute of Technology, Thailand, (2014).
- *Workshop* - One Day Workshop on Network Performance Monitoring by School of Electrical Engineering & Computer Science (SEECs), NUST, Pakistan, (2010).
- *Workshop* - One Day Workshop on Say No To Plagiarism by Quality Enhancement Cell, KUST, Pakistan, (2008).

### **Skills**

*Programming Languages:* C, C++, C#.Net, Java, and MatLab

*Operating Systems:* Linux/Unix system, Ms. Windows

*Software:* Adobe Illustrator, Adobe Photoshop, Corel Draw, Ms. SQL, MySQL, L<sup>A</sup>T<sub>E</sub>X, Ms. Office, Open Office