

# SYED MUHAMMAD MOHSIN

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## RESEARCH INTERESTS

- ▶ Cloud Computing
- ▶ Network Security
- ▶ Machine Learning
- ▶ Mobile Edge Computing
- ▶ Renewable Energy & Smart Grid

## EDUCATIONAL BACKGROUND

- ▶ **Ph. D. (Computer Science) [In Progress]**  
CGPA 3.79 / 4.00  
COMSATS University Islamabad, Pakistan
- ▶ **MS (Computer Science) [2016]**  
CGPA 3.45 / 4.00  
Virtual University of Pakistan, Lahore, Pakistan
- ▶ **BS (Computer Science) [2011]**  
CGPA 2.91 / 4.00  
Virtual University of Pakistan, Lahore, Pakistan
- ▶ **BA (English, Economics) [2001]**  
Marks 426 / 800  
Bahauddin Zakariya University, Multan, Pakistan
- ▶ **DAE (Electronics Technology) [1997]**  
Marks 2212 / 3200  
Punjab Board of Technical Education, Lahore, Pakistan
- ▶ **Secondary School Certificate (Science) [1994]**  
Marks 658 / 850  
BISE, Multan, Pakistan

## PROFESSIONAL WORK

### I. Academic Projects:

- ▶ Research Thesis during MS (CS):  
SOA for CoT: Service Oriented Architecture for Cloud of Things.
- ▶ Academic Project during BS (CS):  
Recruitment Management System (Web Based Application)

## 2. **Research Activities:**

### 2.1 **Research Publications in International Journals**

- 1) Aslam, S., Herodotou, H., **Mohsin, S. M.**, Javaid, N., Ashraf, N., & Aslam, S. (2021). A survey on deep learning methods for power load and renewable energy forecasting in smart microgrids. *Renewable and Sustainable Energy Reviews*, 144, 110992. <https://doi.org/10.1016/j.rser.2021.110992> (IF = 14.98)
- 2) Aurangzeb, K., Aslam, S., **Mohsin, S. M.**, & Alhussein, M. (2021). A Deep Learning-based Fair Pricing Mechanism in Smart Grids for Low Energy Consumption Users. *IEEE Access*, 9, 22035-22044. <https://doi.org/10.1109/ACCESS.2021.3056035> (IF = 3.74)
- 3) Mustafa, I., Mustafa, H., Azar, A. T., Aslam, S., **Mohsin, S. M.**, Qureshi, M. B., & Ashraf, N. (2020). Noise Free Fully Homomorphic Encryption Scheme Over Non-Associative Algebra. *IEEE Access*, 8, 136524-136536. <https://doi.org/10.1109/ACCESS.2020.3007717> (IF = 3.74)
- 4) Mustafa, I., Khan, I. U., Aslam, S., Sajid, A., **Mohsin, S. M.**, Awais, M., & Qureshi, M. B. (2020). A Lightweight Post-Quantum Lattice-Based RSA for Secure Communications. *IEEE Access*, 8(1), 99273-99285. <https://doi.org/10.1109/ACCESS.2020.2995801> (IF = 3.74)
- 5) Aurangzeb, K., Aslam, S., Haider, S. I., **Mohsin, S. M.**, Islam, S. U., Khattak, H. A., & Shah, S. (2019). Energy forecasting using multiheaded convolutional neural networks in efficient renewable energy resources equipped with energy storage system. *Transactions on Emerging Telecommunications Technologies*, e3837. <https://doi.org/10.1002/ett.3837> (IF = 2.68)
- 6) **Mohsin, S. M.**, Khan, I. A., Akber, S. M. A., Shamshirband, S., & Chronopoulos, A. T. (2018). Exploring the RFID mutual authentication domain. *International Journal of Computers and Applications*. <https://doi.org/10.1080/1206212X.2018.1533614>
- 7) Iqbal, Z., Javaid, N., **Mohsin, S. M.**, Akber, S. M. A., Afzal, M. K., & Ishmanov, F. (2018). Performance analysis of hybridization of heuristic techniques for residential load scheduling. *Energies*, 11(10), 2861. <https://doi.org/10.3390/en11102861> (IF = 2.70)

### 2.2 **Research Publications in International Conferences**

- 1) **Mohsin, S. M.**, Aslam, S., Akber, S. M. A., Iqbal, A., Waheed, A., & Ikram, A. (2020). Empowering Cloud of Thing with Edge Computing: A Comparative Analysis. In 2<sup>nd</sup> International Conference on Information Science and Communication Technology 2020 (ICISCT' 20). IEEE.
- 2) **Mohsin, S. M.**, Ashraf, N., Aslam, S., Qureshi, H. K., Mustafa, I., Cheema, M. A., & Qureshi, M. B. (2020). A Cost Efficient Fair Pricing Scheme for Low Energy Consumers of Networked Smart Cities. In 2020 IEEE 91<sup>st</sup> Vehicular Technology Conference (VTC, 2020). IEEE.
- 3) Mahmood, S., **Mohsin, S. M.**, & Akber, S. M. A. (2020). Network Security Issues of Data Link Layer: An Overview. In 3<sup>rd</sup> International Conference on Computing, Mathematics and Engineering Technologies (iCoMET' 20). IEEE.

- 4) Mustafa, I., Aslam, S., Qureshi, M. B., Ashraf, N., Aslam, S., **Mohsin, S. M.**, & Mustafa, H. (2020). RL-MADP: Reinforcement Learning-based Misdirection Attack Prevention Technique for WSN. In 16<sup>th</sup> International conference on Wireless Communications & Mobile Computing (IWCMC' 2020). IEEE.
- 5) Aslam, S., Aslam, S., Herodotou, H., **Mohsin, S. M.**, & Aurangzeb, K. (2019). Towards Energy Efficiency and Power Trading Exploiting Renewable Energy in Cloud Data Centers. In International Conference on Advances in the Emerging Computing Technologies (AECT'19). IEEE.
- 6) Aslam, S., Herodotou, H., Ayub, N., & **Mohsin, S. M.** (2019). Deep Learning based Techniques for Enhancing the Performance of Microgrids: A Review. In 17<sup>th</sup> International Conference on Frontiers of Information Technology (pp. 116-121). IEEE.
- 7) **Mohsin, S. M.**, Javaid, N., Madani, S. A., Abbas, S. K., Akber, S. M. A., & Khan, Z. A. (2018). Appliance Scheduling in Smart Homes with Harmony Search Algorithm for Different Operation Time Intervals. In 32<sup>nd</sup> International Conference on Advanced Information Networking and Applications Workshops (pp. 51-60). IEEE.
- 8) **Mohsin, S. M.**, Javaid, N., Madani, S. A., Akber, S. M. A., Manzoor, S., & Ahmad, J. (2018). Implementing Elephant Herding Optimization Algorithm with different Operation Time Intervals for Appliance Scheduling in Smart Grid. In 32<sup>nd</sup> International Conference on Advanced Information Networking and Applications Workshops (pp. 240-249). IEEE.
- 9) Javaid, N., **Mohsin, S. M.**, Iqbal, A., Yasmeen, A., & Ali, I. (2018). A Hybrid Bat-Crow Search Algorithm Based Home Energy Management in Smart Grid. In Conference on Complex, Intelligent, and Software Intensive Systems (pp. 75-88). Springer, Cham.
- 10) Javaid, N., Ullah Khan, A., **Mohsin, S. M.**, Jadoon, Y. K., & Nazeer, O. (2018). A Hybrid Flower-Grey Wolf Optimizer Based Home Energy Management in Smart Grid. In International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (pp. 46-59). Springer, Cham.
- 11) Aslam, S., Javaid, S., Javaid, N., **Mohsin, S. M.**, Khan, S. S., & Akbar, M. (2018). An efficient home energy management and power trading in smart grid. In International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (pp. 231-241). Springer, Cham.
- 12) Akber, S. M. A., Khan, I. A., Muhammad, S. S., **Mohsin, S. M.**, Khan, I. A., Shamshirband, S., & Chronopoulos, A. T. (2018). Data Volume Based Data Gathering in WSNs using Mobile Data Collector. In Proceedings of the 22nd International Database Engineering & Applications Symposium (pp. 199-207). ACM.

### 3. Professional Experience:

#### a. National / International Journals

Sr. No.	Period	Journal	Role / Position
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4	Since December, 2020	International Journal of Networked and Distributed Computing (IJNDC) (ISSN: 2211-7946)	Reviewer
3	Since August, 2020	Advances in Science, Technology and Engineering Systems Journal (ASTESJ) (ISSN: 2415-6698)	Reviewer
2	Since February, 2020	IEEE Access (ISSN: 2169-3536)	Reviewer
1	Since January, 2019	Internet of Things and Cloud Computing (ISSN: 2376-7731)	Reviewer

**b. Conferences / Workshops**

Sr. No.	Conference Period	Title of Conferences / Workshops	Conference Organizer	Role / Position
12	December 13 - 14, 2021	18th International Conference on Frontiers of Information Technology (FIT, 2021)	COMSATS University, Islamabad (CUI), Pakistan	Program Committee Member
11	December 09 - 10, 2021	IEEE International Conference on Electrical, Computer, and Energy Technologies (ICECET'21)	Aksaray University, Turkey	Reviewer
10	October 07 - 08, 2021	IEEE International Conference on Electrical, Computer, Communications, and Mechatronics Engineering (ICECCME'21)	IEEE Mauritius Section	Reviewer
9	September 25 - 26, 2021	International Conference on Frontiers of Computer Sciences and Software Engineering (CSSE'21)	China Academy of Information and Communication Technology (CAICT)	TPC Member
8	August 10 - 12, 2020	International Online Conference on Digitalization and Cyber Security 2020	Virtual University of Pakistan, Lahore	Participant
7	March 25 - 27, 2020	2020 Training Workshop on Green Technology	Institute of Process Engineering (IPE) and Chinese Academy of Science (CAS), China	Participant
6	February 10 - 12, 2020	International Conference on advances in Emerging Computing Technologies (AECT'19)	Islamic University of Madinah, KSA	Author / Participant

5	February 8 - 9, 2020	2nd International Conference on Information Science & Communication Technology 2020 (ICISCT'20)	University of Karachi, Pakistan	Author / Presenter
4	January 29 - 30, 2020	3rd International Conference on Computing Mathematics and Engineering Technologies (iCoMET)	IBA Sukkur University, Pakistan	Author / Presenter
3	December 16 - 18, 2019	17th International Conference on Frontiers of Information Technology (FIT)	COMSTECH Secretariat Islamabad, Pakistan	Author / Participant
2	April 04, 2019	Developing Entrepreneurial Scientists – Serving Science and Society	University of Sargodha, Sargodha, Pakistan	Participant
1	April 14 - 16, 2016	First International Conference on Indigenous Resource Management Opportunities and Challenges	University of Management Sciences and Information Technology, Kotli, Pakistan	Author / Presenter

- ▶ Working as Network Administrator and Computer Lab Incharge at College of Intellectual Novitiates (COIN) Kundian, Tehsil Piplan, District Mianwali (A Campus of Virtual University of Pakistan) since January, 2008.

#### 4. Academic Experience:

- ▶ Taught various subjects of Computer Science at Chenab College of Advance Studies, Mianwali (affiliated with NCBA&E) from April, 2017 to March, 2019.
- ▶ Taught various subjects of Computer Science at University of Sargodha, Sub-Campus Mianwali during Spring, 2019.
- ▶ Taught various subjects of Computer Science at University of Mianwali during Fall, 2019.
- ▶ Taught various subjects of Computer Science at University of the Punjab, Jhelum Campus (PU JC) during Spring, 2021.

#### OTHER SKILLS

- ▶ Good command on MATLAB, CloudAnalyst, iFogSim.
- ▶ Excellent problem-solving skills
- ▶ Dedicated, Proactive, Full of Initiative and Drive
- ▶ Excellent Interpersonal Communication Skills
- ▶ Proficient in English reading, writing and speaking.

#### HOBBIES

- ▶ Internet Surfing
- ▶ Book Reading
- ▶ Gardening

## REFERENCES

- ▶ Will be provided, on demand