

# CURRICULUM VITAE

## 1. PERSONAL DATA

**Name:** DR. SYED MUSHHAD MUSTUZHAR GILANI

**Date of Birth:** 28-05-1983

**Place of Birth:** Faisalabad, Punjab.

**Nationality:** Pakistani

**Contact Address:** Department of Computer Science,  
Agriculture University Faisalabad, Pakistan.

**Tel (Mobile):** +923006604200

**Email:** [mushhad@gmail.com](mailto:mushhad@gmail.com)



## 2. ACADEMIC/PROFESSIONAL PARTICULARS

- **Doctor of Computer Engineering**, Chongqing University of Posts and Telecommunications, Chongqing, China, 2017.
- **MS** (Computer Science), IQRA University, Islamabad Campus, Pakistan, 2008.
- **MSc** (Computer Science), University of Agriculture, Faisalabad, Pakistan, 2004.

Dissertation Title	Professor	Institution	Degree
Electronic Document Management: Paperless Model	Prof. Dr Jamil Ahmad	IQRA university Islamabad Campus	MS (CS)
SDN and NFV enabled Wireless Network towards Future Internet	Prof. Dr. Tang Hong	Chongqing University of Posts and Telecommunications, Chongqing, China	Ph.D. (Computer Science)

### Academic Honors and Awards

- Excellent Speaker Award at (Ted Talk) Youth Festival 2017 of Chongqing University of Posts and Telecommunication, China.
- CISCO Certified Academy Instructor (CCAI)
- Chinese Government Scholarship Award, Sep 2014-June 2017
- Award Prospective Research Project on National Nature Science Foundation China
- Award Future Networks fund by Jiangsu Future Networks Innovation Institute China
- Certified on Microsoft Specialist- Server Virtualization with Windows Server Hyper-V
- Video Conference Training Certificate awarded by HEC with collaboration of TANDBERUG
- Linux Red Hat 9 certified from Beacon House Informatics, Singapore
- Awarded (Two Times) Travel Grants from Higher Education Commission (HEC) of Pakistan.
- Awarded Research Grant from Pakistan Science Foundation (PSF).

### (a) Membership of Professional Bodies

- Editor, Journal of Electrical and Computer Engineering Innovations.
- Member Technical Program Committee of ICMCT 2023.
- Member Technical Program Committee of ICCSN 2022. <http://www.iccsn.org/tpc.html>

- Member Technical Program Committee of NISecurity 2022.  
<https://www.nisecurity.org/com>
- Session Chair in the International Conference NISecurity 2021.
- Reviewer, Journal of Information Technology (JIT), Taiwan.
- Reviewer, IEEE Internet of Things Journal.
- Actively participate in organizing Open house @ PMAS-Arid Agriculture University, Rawalpindi.
- Actively represented and worked for the accreditation of computer science program at UIIT, PMAS-Arid Agriculture University Rawalpindi.
- Made efforts to build relationships with alumni, industry and institutes (locally and internationally) to enrich, and diversify, the students' learning experience; Build the graduate students directory.
- Member Board of Studies, UIIT, PMAS-Arid Agriculture University, Rawalpindi
- Coordinator IT society of UIIT, PMAS-Arid Agriculture University, Rawalpindi.
- Coordinator Dramatic Club of PMAS-Arid Agriculture University, Rawalpindi.
- Coordinator of Blood Donors Group of UIIT, PMAS-Arid Agriculture University, Rawalpindi.
- Review Committee Member of the ICCSIT 2011 held in Italy, 8 – 11 Sep. 2011

### (b) Language Proficiency

Language	Reading	Writing	Spoken
English	Good	Good	Good
Chinese	Fair	Poor	Fair
Urdu	Good	Good	Good
Arabic	Good	Poor	Poor

## 3. CAREER DETAILS

### Associate Professor (March 2022- To Date)

Department of Computer Science, University of Agriculture Faisalabad.

### Assistant Professor/Research Advisor (July 2012 – To Date)

University Institute of Information Technology, PMAS-Arid Agriculture University, Rawalpindi, Pakistan

### Lecturer (Apr. 2009 – Jun. 2012)

University Institute of Information Technology, PMAS-Arid Agriculture University, Rawalpindi, Pakistan

### Research Associate (Apr. 2005 – Sep. 2006)

University Institute of Information Technology, PMAS-Arid Agriculture University, Rawalpindi, Pakistan

### Visiting Professor

Chongqing University of Posts and Telecommunication, Chongqing, China (Sep. 2014- Dec. 2016)

Foundation University Islamabad Campus, Pakistan (Oct. 2017-Mar. 2019)

Federal Urdu University of Arts and Science and Technology, Islamabad, Pakistan

#### 4. TEACHING

##### (a) Summary of Courses Taught

BS Level	MS Level	PhD Level
Operating Systems	Computer Communication and Networks	Research Methodology
Information & Communication Technologies	Network Performance Evaluation	Advanced Operating System
Management Information System	Telecommunication Technologies	Next Generation Networks
Data Structures	Wireless Networks	Advanced Computer Networks
Theory of Automata and Formal languages	Advanced Operating System	Latest Trends in IoT
Discrete Structure		
Web Design and Development		

##### Course Taught (During last three years)

Course No. / Title	Year	Independent	Joint
Advanced Computer Network/CCNET	2017-2023	Yes	
Network Performance Evaluation	2018	Yes	
Wireless Networks	2018, 2020, 2021	Yes	
Computer Communication and Network	2005 to onward	Yes	Yes
Operating System	2009 to onward	Yes	Yes
Introduction to Information & Communication Technologies	2017, 2018	Yes	
Internet of Things	2022, 2023	Yes	
Advanced Operating System	2020-2024	Yes	

##### (b) Participation in Academic Accreditation

Yes, participate in BS (CS) accreditation Program of UIIT.

Yes, participate in BS (Data Science) accreditation Program.

Yes, participate in BS (Artificial Intelligence) accreditation Program.

**(c) Research Students Supervised/Trained**

	<b>Current</b>	<b>Graduated</b>
<b>Number of MS students:</b>	05	16
<b>Number of PhD students:</b>	04	01

**(d) Participation in Thesis and Oral Examination Committees**

- More than 20 thesis has examined as examiner and supervisory committee member as well.
- Member of PhD and MS(CS) comprehensive committee
- Member of PhD and MS(CS) admission committee
- Convener of PhD Oral Examination

**(e) Training**

<b>Certificate / Diploma obtained</b>	<b>Name and Place of Institution</b>	<b>Years attended</b>	<b>Major Subjects Specialization</b>
<b>Microsoft Specialist- Server Virtualization with Windows Server Hyper-V</b>	<b>Microsoft</b>	<b>2012</b>	<b>Server Virtualization</b>
<b>CISCO Certified Academy Instructor</b>	<b>Comsat Islamabad</b>	<b>June 2009 - August 2009</b>	<b>Networking, Switching, Routing</b>
<b>Video Conferencing</b>	<b>HEC</b>	25-08-2008 to 30-08-2008	<b>Video Conference Equipment</b>
<b>Linux Red Hat 9</b>	Beacon House Informatics, Singapore	<b>Oct 2003- Jan 2004</b>	<b>Linux Administration</b>

- Conducted a Three-Day 'CISCO Workshop' at PMAS-AAUR in summer semester.
- Conducted IT Essential-I and IT Essential-II training course for employees of University.

**5. RESEARCH****(a) Research Interests**

The research interests are:

- ✓ Internet of Things (IoT)
- ✓ Software Defined Wireless Networks
- ✓ Cloud Computing
- ✓ Information Systems
- ✓ Cyber Security

**(b) Publications/Citations Data**

Total claimed publications	59
Publications in IF journals (W category) as per JCR/ HEC approved criteria	19
HEC-recognized journals (X-category) as per HEC approved criteria	15

HEC-recognized journals (Y-category) as per HEC approved criteria	10
International Conferences	15
Citations	350
h-index	11

### (c) Research Grants

Project Title	Funding Agency	Amount	As PI/ Co-PI
Accurate sensing Information gathering by employing IoT in Agriculture of Pakistan	ORIC, PMAS-AAUR	242,000 Rupees	PI
Impact of conjugate natural convection in a square enclosure included obstacle(s)/without obstacle(s) by Finite Element Method	ORIC, PMAS-AAUR	2,40,000 Rupees	Co-PI
Development of a Decentralized Crop Insurance System using AI and Blockchain	ORIC-UAF	1.55 million	PI

### (d) Participation in Regional & International Conferences

- Participated in the International Conference on Emerging Technologies for Crop Improvement in Pakistan, February 19-20, 2024.
- A paper presented at 2023 3rd International Conference on Computing and Information Technology (ICCIT).
- Abstract presented at International Conference on Sustainable Food Security Solutions CPEC consortium of Universities, May 29-31, 2023.
- A paper presented at V. ASC 2023/SPRING congress hosted by MNS University of Agriculture, Multan – Pakistan
- A paper presented at 11<sup>th</sup> International Conference on Communication Software and Networks (ICCSN 2019), Chongqing, China, June 12-15, 2019.
- Seminar on “The Impact of Future Internet Technologies” at Govt. Gordon College Rawalpindi, Pakistan, May 09, 2018.
- A paper presented at 10<sup>th</sup> EAI International Conference on Mobile Multimedia Communications, Chongqing, China, July 13-15, 2017.
- Keynote Speaker at 2<sup>nd</sup> Workshop on Information Security, Jiangsu, China, July 07, 2017.
- Give a Ted Talk (Global Youth Talk) on Future Technologies, CQUPT, China, May 2017.
- A paper presented at the 5<sup>th</sup> International Conference on Communications, Signal Processing, and Systems (CSPS) 2016, Chongqing, China.
- Research seminar on “Evolution of Software Defined Wireless Networks” to Chongqing University of Posts and Telecommunications, China, January 2015.
- A paper presented at 5<sup>th</sup> International Conference on Communication and Networking Technologies ICCNT - 2014
- A paper presented at the IEEE ICACT, Seoul Korea, December 2012.

## 6. SERVICE

### (a) Membership of Institutional, National, or International Scientific Advisory Boards

- Member advisory board of GC University Faisalabad, Pakistan.
- Advisory service to Punjab Public Service Commission (PPSC), Pakistan.
- External Examiner of Research Students, Virtual University, Pakistan.
- Organizer of the regional workshop on ICT role (2019) for disaster prediction and management.
- Member of Future Internet Research Group, Chongqing University of Posts and Telecommunication.

### (b) Membership of Conference Committees

- Editor, Journal of Electrical and Computer Engineering Innovations.
- Member Technical Program Committee of ASSE 2023.
- Member Technical Program Committee of ICCSN 2023.
- Member Technical Program Committee of ICIT 2023. <https://icit.nu.edu.pk/>
- Member Technical Program Committee of ICMCT 2023. <http://www.icmct.org/index.html>
- Session Chair in the International Conference NISecurity 2022.
- Member Technical Program Committee of ICCSN 2022. <http://www.iccsn.org/tpc.html>
- Member Technical Program Committee of NISecurity 2022. <https://www.nisecurity.org/com>
- Paper Setter for Punjab Public Service Commission 2022.
- Session Chair in the International Conference NISecurity 2021.
- Member Technical Program Committee of ICICSE 2021. <http://www.icicse.org/tpc.html>
- Member Technical Program Committee of ICCSN 2021. <http://www.iccsn.org/tpc.html>
- Member Technical Program Committee NISECURITY 2021. <http://www.nisecurity.org/com>
- Member Technical Program Committee of ICMT 2021. <http://www.icmct.org/committee.html>
- Member Technical Program Committee of ICCSN 2020.
- Member Technical Program Committee ICEMSEE 2020.
- Member Technical Program Committee of ICSESS 2019.
- Member Technical Program Committee of ICCSN 2019.
- Member Technical Program Committee of IOTSE2019

## 7. LIST OF PUBLICATIONS

- 1) Gilani, S.M.M., Usman, M., Daud, S. *et al.* SDN-based multi-level framework for smart home services. *Multimed Tools Appl* (2023). <https://doi.org/10.1007/s11042-023-15678-2> **Impact Factor: 2.577**
- 2) Muhammad Azeem, Shiza, Gwo-Jen, Sharifullah & **Syed Mushhad M Gilani** (2023): An assistive environment for EAL academic writing using formulaic sequences classification, *Interactive Learning Environments*, 2023, VOL. 31, NO. 1, 407–421, DOI: 10.1080/10494820.2020.1789670 **Thomson ISI Impact Factor: 4.965**
- 3) Riaz, A.R, **Syed Mushhad Gilani**.; Naseer, S.; Alshmrany, S.; Shafiq, M.; Choi, J.-G. Applying Adaptive Security Techniques for Risk Analysis of Internet of Things (IoT)-Based Smart Agriculture. *Sustainability* 2022, 14, 10964. <https://doi.org/10.3390/su141710964> **Thomson ISI Impact Factor: 3.889**
- 4) Kabir Asif, **Syed Mushhad Gilani**, Gohar Rehman, S. H. Sabahat, J. Popp, Muhammad Arshad, Shehzad Hassan, and Judit O. L. Á. H. 2021. "Energy-Aware Caching and Collaboration for Green Communication Systems." in *Acta Montanistica Slovaca* 26(1):47–59. May 2021. DOI: 10.46544/AMS.v26i1.04 **Thomson ISI Impact Factor: 1.413**

- 5) Sohail, R., Nawaz, Q., Hamid, I., Humair A., Nawaz, J., **Gilani, S. M. M.**, & Mumtaz, I. (2021). "A Novel Machine Learning Based Algorithm to Detect Weeds In Soybean Crop", Pak. J. Agri. Sci., Vol. 58(3), 1007-1015;2021 DOI: 10.21162/PAKJAS/21.479 **Thomson ISI Impact Factor: 0.748**
- 6) H. Aziz, **Syed Mushhad M Gilani**, I. Hussain, A. K. Janjua, and S. Khurram, "A Noise-Tolerant Audio Encryption Framework Designed by the Application of S8 Symmetric Group and Chaotic Systems," *Math. Probl. Eng.*, vol. 2021, p. 5554707, 2021, doi: 10.1155/2021/5554707. **Thomson ISI Impact Factor: 1.305**
- 7) Sohail, R., Nawaz, Q., Hamid, I., **Gilani, S. M. M.**, Mumtaz, I., Mateen, A., & Nawaz, J. (2021). A review on machine vision and image processing techniques for weed detection in agricultural crops. *Pakistan Journal of Agricultural Sciences*, 58(1), 187–204. <https://doi.org/10.21162/PAKJAS/21.305> **Thomson ISI Impact Factor: 0.748**
- 8) Aziz, H., **Syed Mushhad M Gilani**, Hussain, I. et al. "A novel symmetric image cryptosystem resistant to noise perturbation based on S8 elliptic curve S-boxes and chaotic maps". *Eur. Phys. J. Plus* 135, 907 (2020). <https://doi.org/10.1140/epjp/s13360-020-00917-4>. **Thomson ISI Impact Factor: 3.228**
- 9) **S. Mushhad M. Gilani**, M. T. Sultan, Z. Shuai, and A. Kabir, "Long Range Backhaul Microwave Connectivity in Wireless Sensor Networks via a New Antenna Designed for ISM 2. 4 GHz Band," vol. 2020, no. i, *International journal of antennas and propagation*, 2020. **Thomson ISI Impact Factor: 1.347**
- 10) Sajid Latif, **Syed Mushhad M Gilani**, Liaqat Ali, Saleem Iqbal, Misbah Liaqat, "Characterizing the Architectures and Brokering protocols for Enabling Clouds Interconnection" In *Concurrency and Computation: Practice and Experience*. Feb (2020) <https://doi.org/10.1002/cpe.5676> **Thomson ISI Impact Factor: 1.536**
- 11) Saqib Daud, **Syed Mushhad M. Gilani**, Isma Hameed, Asif Kabir, and Qamar Nawaz "DSDV and AODV protocols performance in internet of things based agriculture system for the wheat crop of Pakistan" In *Pak. J. Agri. Sci*, Vol. 57(3), 871-878; (2020) **Thomson ISI Impact Factor: 0.748**  
DOI:10.21162/PAKJAS/20.9249.
- 12) **Syed Mushhad M. Gilani**, H. Tang, G. Zhao, Chuan Xu, and Muhammad Azeem Abbas, "An Empirical Throughput Analysis of Multimedia Applications with OpenFlow-based Dynamic Load Balancing Approach in WLAN" In *Journal of Internet Technology (JIT)*, vol. 20, no. 1 , pp. 237-246, (2019) **Thomson ISI Impact Factor: 1.930**
- 13) Sajid Latif, **S. Mushhad M Gilani**, Rana Liaqat Ali, Misbah Liaqat, Kwang-Man Ko "Distributed Meta-Brokering Enabled Overlay for Scheduling in Cloud Federation" In *Electronics* **2019**, 8, 8521 (2019). **Thomson ISI Impact Factor: 1.764**
- 14) Asif Kabir, Gohar Rehman, **Syed Mushhad Gilani**, Edwin J. Kitindi, Zain ul Abidin Jaffri, "The Role Of Caching In Next Generation Cellular Networks: A Survey And Research Outlook", *Trans Emerging Tel Tech.* 2019;e3702. <https://doi.org/10.1002/ett.3702>. **Thomson ISI Impact Factor: 1.594**
- 15) Muhammad Shahid Riaz, Bin Shan, Shahid Naeem, Wang Kai, Zujun Xie, **Syed Mushhad M. Gilani**, Umer Ashraf," Over 100 Years of Faults Interaction, Stress Accumulation, and Creeping Implications, on Chaman Fault System, Pakistan", *International Journal of Earth Sciences* (2019). <https://doi.org/10.1007/s00531-019-01710-0>. **Thomson ISI Impact Factor: 2.276**
- 16) Muhammad Shahid Riaz, Yong Zheng, Fang Liu, Sijia Zeng, Wang Kai, **Syed Mushhad M. Gilani** , "Tomographic imaging of the 2017 Ms7.0 Jiuzhaigou earthquake source region and its implications on material extrusion in the northeast Tibetan plateau", *Tecto* (2019), <https://doi.org/10.1016/j.tecto.2018.12.026> **Thomson ISI Impact Factor: 2.686**
- 17) **Syed Mushhad M. Gilani**, H. Tang, Wenqiang Jin , G. Zhao, H.M. Heang and Chuan Xu,"Mobility Management in IEEE 802.11 WLAN using SDN/NFV Technologies", In *EURASIP Journal on Wireless Communications and Networking* vol. 2017, no. 1, pp. 1-14. **Thomson ISI Impact Factor: 2.407**

- 18) C. Xu, G. F. Zhao, Y. Liu, and **Syed Mushhad M. Gilani**, "Charactering network latency in China: A view from gateway," *J. High Speed Netw.*, vol. 22, no. 4, pp. 253–264, Oct. 2016 **Thomson ISI Impact Factor: 0.38**
- 19) Fazal, R., Gilani, S. M. M., & Khalid, M. J. "SD-ALB: Software Defined Adaptive load balancing in Data Center Network", *KIET Journal of Computing and Information Sciences*, 6(2), 51-67, Aug 2023. <https://doi.org/10.51153/kjicis.v6i2.181> **(HEC Y Category)**
- 20) S. Daud, **S. M. Gilani**, A. Kabir, Q. Nawaz, and G. Mustafa, "Information-Centric Networking-enabled 5G Network Support for IoT-based Environment", *TJ*, vol. 27, no. 04, pp. 35-43, Jan. 2023 **(HEC Y Category)**
- 21) SK Ahmed, Syed Mushhad M. Gilani, S Sultan, AR Riaz, MWA Ashraf "An Assessment for Understanding Student Behaviour by Applying Machine Learning Technique" in *KIET Journal of Computing and Information Sciences*, 5(2).2022. <https://doi.org/10.51153/kjicis.v5i2.122> **(HEC Y Category)**
- 22) Mahzaib Younas, Qamar Nawaz, Isma Hamid, **Syed Mushhad M. Gilani**, M. Javed Iqbal. A novel approach of ceramic tile crack detection using morphological operations. *Mehran University Research Journal of Engineering and Technology*, [S.I.], v. 41, n. 2, p. 146-154, apr. 2022. ISSN 2413-7219. **(HEC Y Category)**
- 23) Riaz, Abdur Rehman, and **Syed Mushhad Gilani**. "Risk Assessment Approach for Software Development using Cause and Effect Analysis." *KIET Journal of Computing and Information Sciences* 5.1 (2022): 48-61. **(HEC Y Category)**
- 24) Q. Nawaz, M. Younas, I. Hamid, and S. M. Mustuzhar Gilani, "An Analysis of Edge Detection Methodologies in Spatial and Morphological Perspective", *JICTRA*, pp. 11-20, Dec. 2021. **(HEC Y Category)**
- 25) Muhammad Ahsan Saeed, Farrukh Yousaf, Osama B.Khalid, **Mushhad Gilani**, et al., "Fraud Detection in E-Commerce Using Machine Learning" (2021). *International Journal of Advanced Trends in Computer Science and Engineering*, 10(3), 2206–2211. <https://doi.org/10.30534/ijatcse/2021/1011032021>
- 26) HAMZA, Muhammad, **Syed Mushhad M. Gilani**, et al. "Clustering of IoT Devices Using Device Profiling and Behavioral Analysis to Build Efficient Network Policies". *Mehran University Research Journal of Engineering and Technology*, [S.I.], v. 40, n. 2, p. 335 - 345, Apr. 2021. ISSN 2413-7219 **(HEC X Category, ESCI)**
- 27) Asif Kabir, **Syed Mushhad M. Gilani**, Irfan Ullah, and Gohar Rehman. "Techno-Economic Analysis of Green and Sustainable Infrastructure Sharing in Mobile Communication Systems." *Technical Journal* 26, no. 01 (2021). **(HEC Y Category, EBSCO)**
- 28) Farooq, Faryal, Qamar Nawaz, Isma Hamid, **Syed Mushhad M. Gilani**, and Muhammad Javed Iqbal. "DWT based image fusion technique for infrared and visible images using Particle Swarm Optimization." *Technical Journal* 25, no. 01 (2020). **(HEC X Category)**
- 29) Abbasi R, **Syed Mushhad M. Gilani**, Kabir A, Nawaz Q, Riaz MS. Load Balancing of SDN enabled Wireless Network: Challenges, Technique and Evaluation. *J. Inf. commun. technol. robot. appl.* 2019; 10(1):80-92 **(ESCI, HEC X Category)**
- 30) Awais Mahmood, **Syed Mushhad M. Gilani**, Muhammad Javed Iqbal, Zeeshan Haider, Saqib Daud, "Analysis and Evaluation of Secure Solutions for Terrestrial Networks", in *Technical journal* Vol. 24, No. 04, Jan. 2020 **(HEC X Category)**
- 31) S. Tabassum, Q. Nawaz, I. Hamid, and **Syed Mushhad M. Gilani**, "A Novel Method for Face Recognition Based on Features and Gestures", *jictra*, pp. 25-35, Dec. 2019 **(HEC X Category)**
- 32) **Syed Mushhad M. Gilani**, H. Tang, Cai qiqi, and G. Zhao, "Mobility Scenarios into Future Wireless Access Network", *Journal of Information Processing Systems*, in Vol. 13, No.2, pp.236-255, 2017. **(ESCI, EI). (HEC X Category)**
- 33) Liu Yuan-ni, Zou Yang, Guan Xin, **Syed Mushhad M. Gilani**, and Zhao Guo-feng, "Cloud-Assisted Cooperative Mechanism for File Download in Mobile Peer-to-Peer Networks", *Journal OF*



- Engineering Science and Technology Review, vol. 10, no. 3, pp. 73–80, Jul. 2017 (DOI: 10.25103/jestr.103.10). **(HEC X Category)**
- 34) **Syed Mushhad M. Gilani**, Wenqiang Jin, H. Tang, G. Zhao, and Chuan Xu, "SDN-based Handover in Future WLAN", International Journal of Future Generation Communication and Networking, vol. 9, no. 12, pp. 139–154, Dec 2016. **(ESCI, EI). (HEC Y Category)**
  - 35) LIU Yuan, CHEN Hong, **Syed Mushhad M. Gilani**, "A Cloud-Assisted Architecture for Content Distribution in Mobile Peer to Peer Networks", *Journal of Digital Information Management*, vol.14, no.6, Dec.2016 **(EI) (HEC Y Category)**
  - 36) H. B. Abdalla, J. Lin, G. Li, and **Syed Mushhad M. Gilani**, "NoSQL: Confidential on Data Security and Data Management by Using a Mobile Application," Int. Journal. Inf. Electron. Eng., vol. 6, no. 2, pp. 84–88, 2016.
  - 37) Muhammad Azeem, Sharifullah Khan, **Syed Mushhad M. Gilani**, Yaser Hafeez "IoT: Protocols, challenges, and opportunities with agriculture perspective" in KIET Journal of Computing and information sciences, Vol.01, March 2018. **(HEC Y Category)**

### Book Chapters

1. **Syed Mushhad M. Gilani**, W. Jin, H. Tang, G. Zhao, and Chuan Xu," Mobility Management in AP using SDN-NFV Technologies" Communications, Signal Processing, and Systems. CSPA 2016. Lecture Notes in Electrical Engineering, vol 423. Springer, Singapore. **(ISI, EI Index)**
2. **Syed Mushhad M. Gilani**, H.M. Heang, H. Tang, G. Zhao, and Chuan Xu," OpenFlow Based Load Balancing in WLAN: Throughput Analysis" Communications, Signal Processing, and Systems. CSPA 2016. Lecture Notes in Electrical Engineering, vol 423. Springer, Singapore. **(ISI, EI Index)**

### Referred International Conference Papers:

1. Q. Nawaz, M. Younas, I. Hamid and S. M. M. Gilani, "Recurrent Neural Network Based Human Emotion Recognition using EEG brain signals," 2023 3rd International Conference on Computing and Information Technology (ICCIT), Tabuk, Saudi Arabia, 2023, pp. 117-122, doi: 10.1109/ICCIT58132.2023.10273944.
2. Zar Sadia, **Syed Mushhad M. Gilani**, Abdur Rehman Riaz, Rafia Mukhtar Abbasi, and Isma Hameed. "Evolution of IoT in Cloud Computing: Risk Analysis and Potential Solutions." In 2021 4<sup>th</sup> International Conference on Computing & Information Sciences (ICCIS), pp. 1-6. IEEE, 2021.
3. Riaz Abdur Rehman, Asma Rauf, **Syed Mushhad M. Gilani**, and Muhammad Bilal Bashir. "Techniques and Methodologies of Self-Adaptive Software and its Architecture: A Survey." In 2021 4<sup>th</sup> International Conference on Computing & Information Sciences (ICCIS), pp. 1-5. IEEE, 2021.
4. Mo Zhou, Chuan Xu, Guofeng Zhao, and **Syed Mushhad M. Gilani**, "Personalized QoS Improvement in User-centered Heterogeneous V2X Communication Networks" in Chinacomm 2019.
5. Saqib Daud, **S. Mushhad M. Gilani**, Muhammad Shahid Riaz, Asif Kabir, "DSDV and AODV Protocols Performance in Internet of Things Environment" in 11<sup>th</sup> International Conference on Communication Software and Networks (ICCSN 2019), Chongqing, China, June 12-15, 2019.
6. Abubakar Siddique, Isma Hamid, Weisheng Li, Qamar Nawaz, **Syed Mushhad M. Gilani**, "Image Representation Using Variants of Principal Component Analysis: A Comparative Study" in 11<sup>th</sup> International Conference on Communication Software and Networks (ICCSN 2019), Chongqing, China, June 12-15, 2019.
7. Asif Kabir, G. Rehman, Muhammad A. Shehzad, K. Mustafa, **Syed Mushhad M. Gilani**, "Green and Sustainable Power Solution for Remote Telecommunication Base Stations through Renewable Energy" Int. Conf. NSICFSS, Nov 2018, pp.1-6.

8. H.M. Heang, **Syed Mushhad. M. Gilani**, T. Hong, and G. Zhao, "Load Balancing in Wireless Networks using SDN-enabled Infrastructure: Traffic Analysis" in *MobiMedia 2017 10<sup>th</sup> EAI International Conference on Mobile Multimedia Communications*. DOI 10.4108/eai.13-7-2017.2270385.
9. **Syed Mushhad M. Gilani**, H. Tang, and G. Zhao, "SN-FMIA: SDN and NFV enabled future mobile Internet architecture," in *Advanced Communication Technology (ICACT)*, 2015 17th International Conference, pp. 341–346.
10. Hemn B.Abdalla, Jinzhao Lin, Guoquan Li, **Syed Mushhad M Gilani**, "NoSQL: Robust and Efficient Data Management on De-duplication Process by using a mobile application," *Proceedings of the 19th International Conference on Communications (part of CSCC '15)*, pp.274-278, 2015
11. M. B. Ahmad, M. Asif, **Syed Mushhad. M. Gilani**, M. H. Islam, "A novel application to secure misuse of information in critical organizations for windows environment", *IEEE* 2014, pp. 1–7
12. Y. Hafeez, M. Riaz, S.Asghar, H.Naz, **S. Mushhad M Gilani**, A Batool, M. Ahmed, M. S. Hassan "A Requirement Change Management Framework for Distributed Software Environment" *IEEE ICACT*, Seoul Korea, December 2012, ISBN: 978-1-4673-0894-6, pp 944 – 948.
13. A. Irshad, M. Shafiq, S. Khurram, **Syed Mushhad M. Gilani**, M. Shahzad, E. Irshad "An algorithm for strings generation for Regular Expression in a controlled manner" *IEEE ICIIT*, UCP Lahore, OCT 2010, ISBN: 978-1-4244-813 8-5, pp. VI-70-74.
14. A. Irshad, **Syed Mushhad M. Gilani**, S. Khurram, M. Shafiq, A. Wahab, M Usman "Hash-chain based peer-peer key management and establishment of Security Associations in MANETS" June 2010, *IEEE ICIET FAST*, Karachi, ISBN: 978-1-4244-8002-9.
15. **Syed Mushhad M. Gilani**, J.Ahmed, M.A.Abbas, "A Paperless Model to Convert Universities Environment into Fully Automated System" 2009 The International Conference on Industrial globalization and Technology Innovation, China ISBN: 978-1-4244-4519-6, pp 440-444.
16. **Syed Mushhad M. Gilani**, J.Ahmed, M.A.Abbas, "Electronic Document Management: A Paperless University Model" *IEEE ICCSIT* 2009, August 8 - 11, 2009, Beijing, China
17. M. Usman, W. Noshairwan, A. Irshad, E. Irshad, **Syed Mushhad M. Gilani**, "Seamless vertical handoff using Authentication Certificate in GPRS-WLAN tightly coupled integrated networks" OCT 2008, *IEEE ICET*, CEME NUST, Rawalpindi, ISBN: 978-1-4244-2210-4, pp. 199-204.
18. E. Irshad, W. Noshairwan, A. Irshad, M. Usman, **Syed Mushhad M. Gilani**, "Group Mobility in Mobile Ad hoc Networks", ISBN: 978-972-8924-68-3, pp. 381-385, *WWW/Internet*, IADIS Germany, 2008.

## 8. REFERENCES

Can be provided on demand.