

Dr. Syed Zeeshan Hussain

Professor

Official Address

Department of Computer Science, Jamia Millia Islamia (A Central University), Jamia Nagar, New Delhi-110 025 (INDIA)

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Educational Qualifications

- **Ph.D (Computer Science)** in the field of Computer Networks from Jamia Millia Islamia (A Central University), New Delhi.
- **Master in Computer Applications (MCA)** from IGNOU, New Delhi.
- **M.Sc. (Physics)** with Specialization in Solid State Physics from Bhagalpur University, Bhagalpur (Bihar).

Total Teaching Experience: 23 Years

Area of Research: *Computer Networks, Performance Analysis of Protocols, Network Security, Web Technologies and Applications, Adhoc Networks, Semantic Web, IoT, Cyber Security.*

Professional/Teaching Experience

1. Worked as *Lecturer/Assistant Professor* from July 16, 2001 to Sept 29, 2017 with Department of Computer Science, Jamia Millia Islamia (A Central University), New Delhi.
2. Worked as *Associate Professor* from Sept 30, 2017 to Sept. 29, 2020 with Department of Computer Science, Jamia Millia Islamia (A Central University), New Delhi.
3. ***Presently working as Professor with Department of Computer Science, Jamia Millia Islamia (A Central University), New Delhi since Sept 30, 2020 till date.***

Job Responsibilities:

- Teaching different papers at PG and UG levels.
- Supervision of Minor/Major Project Work of MCA, PGDCA and M.Sc.(Bioinformatics) students.
- Supervising and Teaching of PhD students

- Paper Settings and Evaluations
- Other administrative responsibilities assigned in the Department/University.

Papers Taught at UG and PG Levels so far

1. Programming in C and Data Structures
2. Object-Oriented Programming using C++/Java
3. Internet Technology and Applications
4. Computer Networks and Security
5. Fundamentals of Computing
6. Programming in Perl and Bioperl for Bioinformatics
7. Systems Analysis and Design
8. Windows/Visual Programming
9. Programming in Python and Biopython for Bioinformatics
10. Algorithmics and Program Design

Supervised Ph.D Scholars

Sl. No	Name	Title of Thesis	Status
1.	Vineet Kumar Sharma	<i>The Development of Software Technique to Improve the Performance of a Distributed System.</i>	Awarded in 2012
2.	Syed Imtiyaz Hassan	<i>A Study to Achieve Higher Degree of Automation by Structural Change in Model-View-Controller (MVC).</i>	Awarded in 2013
3.	Neeta Wadhwa	<i>Evaluation and Analysis of Symmetric Cryptographic Algorithms From Cryptanalysis Perspective.</i>	Awarded in 2014
4.	Muqeen Ahmed	<i>Development of Knowledge Based Grid in Semantic Web.</i>	Awarded in 2014
5.	Naeem Ahmad	<i>A Unified Approach to control the undesirable Route Discovery packets in Adhoc Networks</i>	Awarded in 2016
6.	Nancy Agarwal	<i>Intrusion Detection for Web-Based Applications</i>	Awarded in 2019
7.	Mohd. Shahid	<i>Applications of Non-Linear Data Structures to Software Engineering.</i>	Awarded in 2020 (As Co-Supervisor, F/O Engg. & Tech; JMI)
8.	Manoj Kumar	<i>A Secured Wireless Body Area Network Based on IOT.</i>	Awarded in 2024
9	Shalini Sharma	<i>Trust Based Model for a Mobile Adhoc Network</i>	Awarded in 2024
10.	Sultana Parween	<i>A Framework for the Performance Enhancement of Cross Layer TCP for IOT.</i>	Awarded in 2024
11.	Hadeel Mushtaq Shakir	<i>A Secured Framework for E-Commerce in Cloud Computing Environment.</i>	Submitted
12.	Syed Ali Mehdi	<i>An Intelligent Intrusion Detection System For IoT Based Systems.</i>	In Progress
13.	Priyanka Vashistha	<i>A Unified Framework for IoT based Intelligent System.</i>	In Progress

14.	Ghulam Muqtada	<i>Multi-Modal Deep Learningbased AnomalyDetection for IoT Networks</i>	In Progress
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Administrative Responsibilities held

- ***Presently Working as MCA Course Coordinator since March 2022 in the Department of Computer Science, JMI.***
- Worked as Advisor, Subject Association in the Department of Computer Science, JMI.
- Worked as Course Coordinator of BCA/BIT Programme.
- Worked as member/convener of Advisory committee for Bioinformatics course in the Department of Computer Science, JMI
- Worked as BIF Coordinator, DBT in the Dept of Computer Science during 2006-07.
- External/Internal examiners and paper setters for various theory and lab papers and Tabulator at JMI and other universities/institutions.
- Asstt. Supt. of Examination in the B.Tech Admission Entrance Test, JMI.
- Appointed as Advisor to the Interview Board for the interview of Asstt. Central Intelligence Officer/Grade-II (EDP) conducted by Staff Selection Commission, Govt. of India on 7th & 14th February 2011.
- Member, Departmental Meetings, Department of Computer Science, JMI
- Member, Departmental Examination Committee, Department of Computer Science, JMI.
- Superintendent of Examination, Department of Computer Science, JMI ,August 2014.
- Member, Board of Studies, Department of Computer Science, JMI
- Worked as Course Coordinator, M.Sc.(Bioinformatics) (2014-2019)
- Worked as Coordinator – DRC & Ph.D Programme (2014-2020)
- Working as Computing Labs Coordinator in the Department of Computer Science, JMI
- Working as Convener Departmental Purchase Committee in the Department of Computer Science, JMI
- Member of the Curriculum Committee in the Department of Computer Science, JMI.
- Member of the Moderation Committee of Department of Computer Science, JMI.
- Nominated as Expert in the Selection Committee by the Director General, NIFT(HO), Govt. of India, New Delhi for the selection of Computer Engineers and Jr. Civil/Electrical Engineers held on 9th October 2021 at NIFT(HO), New Delhi.
- Member of the *Central Coordination Committee* constituted for the visit of **NAAC** Team in the Jamia Campus from 6 to 8 December, 2021.
- Nominated as an expert by the Dean, F/o Natural Sciences, JMI on 18-02-2022 to review the finalized syllabus of a 4-Credit CBCS at UG/PG & doctoral basis to be offered by FTK-CIT, JMI on “*Cyber Security and Safety*”.
- Acted as External Examiner for PhD Viva-Voce Examinations at Department of Computer Science at AMU, Aligarh.
- Visited as an expert paper-setter in Computer Science to Uttarakhand Public Service commission, Hardawar.

Foreign Assignment

Invited to deliver 30 lectures in the one month Summer Training Programme to the students of Masters Course held at the Faculty of Engineering in the Suleyman Demirel University (Ministry of Science and Education), Almaty, Kazakhstan from 1st June to 29th June 2009.

Seminar/Conference/Workshop/Invited Talks/Lectures

1. Attended four days workshop on “Development of Quality Question Paper” at the Academic Staff College, JMI from March 9-12 2002.
2. Worked as the member of the organizing committee for the National Workshop on

- “Artificial Intelligence, Soft-computing and Bioinformatics Applications”* organized by Department of Computer Science, JMI from 16th to 19th November 2004.
3. Attended a workshop on *Bioinformatics: Tools in Biosequence analysis and Biocomputing* organized by Amity Institute of Biotechnology, Noida from 8th-10th Sept 2005.
 4. Participated in *three weeks 2nd Refresher Course* in Computer Science organized by UGC-ASC, JMI from 7th Dec to 28th Dec 2006 and presented a paper titled *“Scripting Languages and applications”*.
 5. Attended a National workshop *IT FOR ALL* organized by FTK- CIT, Jamia Millia Islamia, New Delhi , on 30th October 2007.
 6. Delivered a Lecturer on *“Scripting Languages and its applications in Bioinformatics”* in a National Training Programme on *“Semantic Web & Ontologies in Bioinformatics”* organized by DBT funded BIF Centre, Department of Computer Science, Jamia Millia Islamia, New Delhi from 9-11 January 2008.
 7. Participated in *four weeks 83rd Orientation Programme* organized by UGC-ASC, JMI from 20th Feb to 19th March 2008 and presented a paper titled *“Updating Computer Science Education”*.
 8. Attended the *National workshop on Emerging Technologies* (NCET -08) held at Integral University, Lucknow from 29-30 March 2008 and presented a research paper titled *“QoS in Universal Access Method setup for IEEE 802.11 networks w.r.to MAC layer performance parameters”*.
 9. Attended two days Faculty Development Training Program at Accenture Service Pvt. Ltd, Gurgaon from 10th and 11th April 2008.
 10. Attended 1st National Workshop SUDMIT-2009, organized by FTK- CIT, Jamia Millia Islamia, New Delhi from 26-27 Feb 2009.
 11. Invited to deliver 30 lectures in the one month Summer Training Programme to the students of Masters Course held at the *Faculty of Engineering in the Suleyman Demirel University (Ministry of Science and Education), Almaty, Kazakhstan* from 1st June to 29th June 2009.
 12. Attended 2nd National Workshop SUDMIT-2010, organized by FTK- CIT, Jamia Millia Islamia, New Delhi from 25-26 March 2010.
 13. Chaired a Session for research papers presentation at National Conference on Next Generation Computing and Information Security (NCNGCIS) on 25th March 2011. organized by IMS, Noida.
 14. Chaired a Session for research papers presentation at International Conference on Issues and Challenges in Networking, Intelligence and Computing Technologies (ICNICT-2011) on 3rd Sept., 2011. Organized by KIET, Ghaziabad and Dept. of Science & Technology, Govt. of India..
 15. Worked as the member of the organizing committee in the National Workshop on *“ERP Mission”* organized by FTK-CIT, JMI from 17th to 18th Sept., 2011.
 16. Participated in the National Conference on *“Emerging Trends in Open Source applications and cloud computing (OSACC-2012)”*, organized by FTK- CIT, Jamia Millia Islamia, New Delhi on March 15, 2012.
 17. Participated in the National Workshop on *“Modernization of Learning Environment in Higher Education”* held at FTK- CIT, Jamia Millia Islamia, New Delhi from 18th to 19th January, 2013.
 18. Attended a Three Weeks Special Winter School organized by UGC-HRDC, JMI from 24 December 2013 to 12 January 2014.
 19. Delivered a Lecture titled Human–Computer Interaction, on 14-04-2015 at UGC-HRDC, JMI, New Delhi.
 20. Delivered a Lecture titled Application of Computer Networks on 19-05-2016 at UGC-HRDC, JMI, New Delhi.
 21. Attended a National seminar on Recent Trends in Computer Science, March 30, 2016 and presented a Poster Paper in the Seminar.
 22. Attended 7th DBT-BIF Workshop on Translational Bioinformatics (NWTB-17), Feb 15-

- 16, 2017.
23. Attended International conference on Theory and Practice of Electronic Governance,, Ministry of Electronics and IT, Govt of India, March 7-9, 2017.
24. Chaired a Session for research papers presentation at International Conference on ICT for Digital, Smart, and Sustainable Development (ICIDSSD19) held from 15th to 16th March 2019 at Dept. of Computer Science & Engineering, Jamia Hamdard, New Delhi.
25. Chaired a Session for research papers presentation at IEEE International Conference on Issues and Challenges in Networking, Intelligence and Computing Technologies (ICNICT-2019) held from 27th to 28th Sept., 2019, Organized by KIET, Ghaziabad and IEEE
26. Delivered an Invited Lecture on *Human- Computer Interactions*, at 2nd 2-Week Refresher Course in Computational & Mathematical Sciences at UGC - Human Resource Development Centre, Jamia Millia Islamia, New Delhi on 12 February 2020.
27. Attended an International Online Symposium on 'Recent Technologies in Computer Science (Big data analytics, Cloud computing, IoT, AI)' on June 30, 2020 at Department of Computer Science, Jamia Millia Islamia, New Delhi.
28. Attended an International Webinar on 'Robotics and Automation Processes' on September 12, 2020 at Bharati Vidyapeeth's Institute of Computers Applications and Management (BVICAM), New Delhi
29. Attended an International Webinar on 'Cyber warfare, Cyber scecurity and Cyber Citizenship' on September 18, 2020 at Bharati Vidyapeeth's Institute of Computers Applications and Management (BVICAM), New Delhi.
30. Chaired a Seminar Presentation session on Nov 1, 2021 of the participants of 1st online 2-Week Refresher Course in Computational and Mathematical Sciences from 22 October to 05 November, 2021 organised by the UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi.
31. Attended One day Virtual Seminar on '*Intellectual Property Rights (Patents Special)*' on National Science Day, February 28, 2022 organised by CIF, F/O Natural Sciences, Jamia Millia Islamia, New Delhi.
32. Attended NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by MMTTC, Jamia Millia Islamia, New Delhi from 04th March to 14th March 2024.
33. Delivered an online Lecture on the topic "**AI/ML in Teaching and Research**" in a Short-Term Course (STC) on Artificial Intelligence organized by UGC-MMTTC, AMU, Aligarh on 26th June 2024.

Patent Published/Awarded

S. Zeeshan Hussain, S.A.M Rizvi, Neeta Wadhwa, Department of Computer Science, Jamia Millia Islamia, Patent "**Serial Peripheral Encryption Algorithm for Keyboard and Thermal Printer (SPEAK)**", Awarded by Indian Patent, Application no: 801/DEL/2013A, Published on November 21, 2014, https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_164_1/official-journal-21-11-2014-part1.pdf, page 24.

List of Published and Presented Research Papers

1. S.Z. Hussain, S.K.Naqvi, S A M Rizvi, S I Ahson, "QoS in Universal Access Method Setup for IEEE 802.11 Networks with respect to MAC layer performance parameters", presented at *National Conference on Emerging Technologies* held from 29th to 30th March 2008, at Integral University, Lucknow.
2. S A M Rizvi, S.Z. Hussain, Nadia Imdadi, "A Novel Approach to Employ Ontologies and Ontology Engineering for Bridging Semantic Gap between Resources on the Web", accepted at *National Conference on Emerging Technologies* held from 29th to

- 30th March 2008, at Integral University, Lucknow
3. S.Z. Hussain, S.K.Naqvi, S A M Rizvi, S I Ahson, "QoS in Universal Access Method Setup for IEEE 802.11 Networks", accepted at IEEE sponsored ICETET-08, Nagpur.
 4. S.Z.Hussain " QoS in MAC Protocols" , NSIF-08 organized by Faculty of Natural Sciences, JMI from 6-8 March 2008.
 5. Rizvi S.A.M., S.Z.Hussain and Syed Imtiyaz Hassan, "Increasing the Reusability of Interactive Software Systems by Micro-Level Design", International Journal of Software Engineering, Volume 1, Number 1 (2010), pp. 41—50, ISSN: 0974-3162.
 6. Rizvi S.A.M., Syed Zeeshan Hussain and Syed Imtiyaz Hassan, "Thinking beyond Web1.0: A Look at the New Next Generation Web Technologies" in proc. of the National Conference on Emerging Trends in Advanced Computing & Informatics – CICON- 2010 , Shobhit University, Meerut, India, May 8th & 9th , 2010.
 8. Vineet Sharma, SAM Rizvi, S.Z.Hussain, "Distributed Co-ordinator model for Optimal Utilization of Software and Piracy Prevention", Published in International Journal of Computer Science & Security (IJCSS) 2010, Vol. 3,pp-350 issue 6,ISSN 1985-1553.
 9. Vineet Sharma, SAM Rizvi, S.Z.Hussain, "Distributed software and license key management an initiative to stop software piracy", UBICC, Ubiquitous Computing & Communication Journal, South Korea, Vol. 5, No. 1, pp-1770- 1777, 2010.
 10. Vineet Sharma, SAM Rizvi, S.Z.Hussain, "Distributed Media Player", 4th National Conference; INDIACom-2010.
 11. Vineet Sharma, SAM Rizvi, S.Z.Hussain, "Dynamic Software License Key Management using Smart Cards", International Conference on advances in Computer Engineering ACE2010, Bangalore India, 978-0-7695-4058-0/10 \$26.00 © 2010 IEEE, pp- 244-246, ISBN No: 978-1-4244-7154-6
 12. Vineet Sharma Dr. SAM Rizvi, "S. Zeeshan Hussain, "Dynamic License Key Management and Piracy Prevention", 3rd International Conference on Data Management, ICDM, IMT Ghaziabad, 2010, ISBN No: publisher Macmillan, page no: 220-227, ISBN No: 0230329799.
 13. Muqeen Ahmed, SAM Rizvi, S.Z.Hussain, "Knowledge Grid characteristics and strategies", 0973-7529/978-81-904526-9-3, INDIA Com 3rd National Conference on Computing for Nation Development 2010, Bhartiya Vidhya Peeth Paschim Vihar New Delhi.
 14. Muqeen Ahmed, SAM Rizvi, S.Z.Hussain, "Semantic Grid E Learning Platform for Education System", ISSN/ISBN 0973-7529/978-81-904526-9-4, INDIA Com 4th National Conference on Computing For Nation Development 2010, Bhartiya Vidhya Peeth Paschim Vihar New Delhi.
 15. M.Ahmad, S.Z.Hussain and S.A.M Rizvi, "Web knowledge based grid: agent based workflow education for university to access grid data resource in distributed environment", INTERNATIONAL CONFERENCE ON METHODS AND MODELS IN SCIENCE AND TECHNOLOGY, 2010, Journal AIP Conference Proceedings, Volume 1324, Pages 467-469, 978-0-7354-0879-1, 6th Nov 2010.
 16. Neeta Wadhwa, SAM Rizvi, S.Z.Hussain, "A Security Protocol for Peripheral Devices", International Conference on "Computing: Update and Trends", CUT- 2010, held at JIM Ghaziabad, pp.214-221, ISBN 978-81-313-0835-6, 6th Feb 2010.
 17. Neeta Wadhwa, ,SAM Rizvi, S.Z.Hussain, "Analysis of Substitution and Permutation from Cryptanalysis Perspective" Proceedings of the International Symposium on Computer Engineering and Technology "ISCET-2010".
 18. Neeta Wadhwa, SAM Rizvi, S.Z.Hussain, "The Modified Symmetric Cipher : MCast-256" Proceedings of the International Student Symposia In Computing "ISSC 2K10" and in national journal "PRAYAS". Neeta Wadhwa, SAM Rizvi, S.Z.Hussain, Fourth National Conference; "INDIACom-2010" held at BVICAM , New Delhi on 25-26 Feb 2010, and presented a paper entitled "Cryptography and Mathematics" pp.185, ISSN 0973 – 7529 and ISBN 978 – 81 – 904526 – 9 – 4.
 19. M. Ahmed M., Rizvi S. and S.Z.Hussain,"Knowledge based grid knowledge discovery" ,Published in the Proceedings of IEEE 6th International Conference on Next Generation Web Services Practices (NWeSP2010), Gwalior, India, November

- 23-25, 2010.
20. Rizvi S.A.M., S. Zeeshan Hussain and Syed Imtiyaz Hassan, *Simplifying Mobile Application Development with MVC*, in proc. of the 5th National Conference; *INDIACom-2010*, Bharati Vidyapeeth's Institute of Computer Applications and Management, New Delhi, India, pp. 495-498, ISBN: 978-81-904526-9-4, ISSN: 0973-7529, February 25–26, 2011.
 21. Rizvi S.A.M., S. Z. Hussain and Neeta Wadhwa, "*Performance Analysis of TWOFISH and AES Encryption Schemes*", in CSNT-2011, International Conference on Communication Systems and Network Technologies, SMDVU Katra, pp 76-79, ISBN978-0-7695-4437-3, 3-5 June 2011.
 22. Rizvi S.A.M., S. Z. Hussain and Neeta Wadhwa, "*A Comparative Study Of Two Symmetric Encryption Algorithms Across Different Platforms*", International Conference on Security and Management (SAM'11), 2011, CSREA Press, ISBN:1-60132-196-1.
 23. M.Ahmad, S.Z.Hussain and S.A.M Rizvi, "*Knowledge Grid Electronic Commerce Recommendation System in the Distributed Collaborative Framework*", Vol.1, No.2, pp.1-8, International Journal of Computing Technology and Information Security, 2231-1998, December, 2011.
 24. Neeta Wadhwa, S.Z.Hussain and S.A.M Rizvi, "*Review of the Journey from DES to AES*", ,vol. 3, issue 2, , pp. 351-366, International Journal of Computer Science and Engineering and Information Technology Research Journal (IJSEITR), 2249-6831, June 2013.
 25. Neeta Wadhwa, S.Z.Hussain and S.A.M Rizvi, "*A Study of MARS, RC and SERPENT*", Vol. 2, Issue 3, 89-94, International Journal of Computer Science and Engineering (IJCSE), 2278-9960, July 2013.
 26. M.Ahmad, S.Z.Hussain and S.A.M Rizvi, "*Knowledge based Grid Using Semantic Web for the University System*", pp 46-52, Volume, issue 15, 2013, International Journal of Computer Applications, 0975 – 8887.
 27. Neeta Wadhwa, S.Z.Hussain and S.A.M Rizvi, "*A Combined Method for Confidentiality, Integrity, Availability and Authentication(CMCIAA)*", Proceedings of the World Congress on Engineering, London, ISBN: 978-988-19252-8-2 ISSN: 2078-0958 (Print); ISSN: 2078-0966 (Online), July 2013.
 28. Naeem Ahmad and S.Zeeshan Hussain, "*Performance analysis of adaptive routing protocols based on different mobility model with varying network size*", The Fourth International Conference "The Next Generation Information Technology Summit (CONFLUENCE 2013)" IEEE Xplore, 2013
 29. S. Zeeshan Hussain and Naeem Ahmad, "*Cluster Based Controlling of Route Exploring Packets in Ad-Hoc Networks*", International Conference on Advanced Computing, Networking and Informatics – Volume 2, pp103-112 2014. Smart Innovation, Systems and Technologies 28, DOI: 10.1007/978-3-319-07350-7_12, c Springer International Publishing Switzerland, June 24-26, 2014.
 30. Naeem Ahmad, S. Zeeshan Hussain, "*Broadcast Expenses Controlling Techniques in Mobile Ad-hoc Networks: A Survey*", Journal of King Saud University – Computer and Information Sciences (2015) Vol. 28, pp-248–261, 1319-1578.
 31. Chaudhary Wali Mohammad, Mohd. Shahid, S.Zeeshan Hussain, "*FAGOSRA: Fuzzy Attributed Goal Oriented Software Requirements Analysis Method*", Ninth International Conference on Contemporary Computing (IC3-2016), Noida, India, 978-1-5090-3251-8/16, August 11-13, 2016
 32. S. Zeeshan Hussain and Nancy Agarwal, "*Quality Signatures for Detecting Intrusions*", Department of Computer Science & Engineering, RTU, Kota, Rajasthan, 3rd International Conference on Cyber Security (ICSS-2017), Proceedings published in International Journal of Advance Studies in Computer Science and Engineering(IJASCSE), volume 6 issue 9 (Theme: Cyber Security, Information Security & Privacy in Communication Networks), 2017, <http://www.ijascse.org/ijascse-volume-6-theme-based-issue-9>, ISSN: 2278 7917, August 11-13, 2017.
 33. S.Zeeshan . Hussain, Mohd. Shahid, Chaudhary Wali Mohammad, "*Selection of*

- Software Requirements using Decision Tree during Software Development Process*", International Journal of Engineering Research and Application www.ijera.com, Vol. 7, Issue 9, (Part-7), pp.71-77, ISSN: 2248-9622, September 2017.
34. Naeem Ahmad and S. Zeeshan Hussain, "*Power saving technique for controlled broadcast of query packet in MANETs*", International Journal of Mobile Network Design and Innovation, Vol. 7, issue no.3-4, pp. 158-169, Inderscience Enterprises Ltd., January 2017.
 35. S. Zeeshan Hussain, Naeem Ahmad, "*Minimizing Broadcast Expenses in Clustered Ad-hoc Networks*", King Saud University Journal of King Saud University – Computer and Information Sciences, vol.30, issue no. 1, pp 67-79, Elsevier, January 2018.
 36. Chaudhary Wali Mohammad, Mohd. Shahid, Syed Zeeshan Hussain, "*Fuzzy attributed goal oriented software requirements analysis with multiple stakeholders*", International Journal of Information Technology, pp. 1-9, Elsevier, January 2018.
 37. Nancy Agarwal and Syed Zeeshan Hussain "*A Closer Look at Intrusion Detection System for Web Applications*", Security and Communication Networks, Hindawi, ISSN:1939-0114, Vol. 2018, Article ID 9601357, 27 pages, <https://doi.org/10.1155/2018/9601357>, 14 August 2018.
 38. Mudasir Ahmad Wani, Nancy Agarwal, Suraiya Jabin, S. Zeeshan Hussain, "*User emotion analysis in conflicting versus non-conflicting regions using online social networks*", Telematics and Informatics, Vol-35, issue-8 PP-2326-2336, Elsevier), December 2018.
 39. Mudasir Ahmad wani, Nancy Agarwal, Suraiya Jabin, S. Zeeshan Hussain, "*Analyzing Real and Fake users in Facebook Network based on Emotions*", 11th International Conference on Communication Systems & Networks (COMSNETS), pp-110-117, IEEE, January 2019.
 40. Naeem Ahmad, S. Zeeshan Hussain, "*Analytical comparisons of query-broadcast repealing schemes in MANETs*", Telecommunication Systems, Vol-70, issue – 1, pp-67-79, Springer US, January 2019.
 41. Syed Zeeshan Hussain, Nancy Agarwal, "*Content Spoofing via Compounded SQL Injection*", ICICCT19: International Conference on Intelligent Computing and Communication Technologies, pp 244-252, Springer, Singapore, June 2019.
 42. Shalini Sharma, S. Zeeshan Hussain, "*Insider Pitfalls with Watchdog and Defending Approaches in Mobile Ad Hoc Network*", Proceedings of the 5th International Conference on Cyber Security & Privacy in Communication Networks (ICCS) 2019, National Institute of Technology, Kurukshetra, India, December 2019.
 43. S. Zeeshan Hussain, Manoj Kumar, "*Secret Key Agreement Schemes in IOT Based Wireless Body Area Network*", International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT) 2019, IEEE, Feb 2020.
 44. Sultana Parween, Syed Zeeshan Hussain, "*A Review on Cross-Layer Design Approach in WSN by Different Technique*", Volume 5, Issue 4, Page No 741-754, ISSN: 2415-6698, Advances in Science, Technology and Engineering Systems Journal, ASTES Publishers, 28 August 2020.
 45. S Z Hussain, Manoj Kumar, "*Secured Key Agreement Schemes in Wireless Body Area Network — A Review*", Vol 14, issue 24, pp 2005-2033, INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY, Indian Society for Education and Environment (ISEE), 13 July 2021.
 46. Sultana Parween, Syed Zeeshan Hussain, Md Asdaque Hussain, "*A Survey on Issues and Possible Solutions of Cross-Layer Design in Internet of Things*", Vol 8, Issue 4, pp 311-333 International Journal of Computer Networks and Applications (IJCNA), ISSN: 2395-0455, 31 August 2021.
 47. Hadeel Mushtaq Shakir, Syed Zeeshan Hussain, "*A Secured Framework for E-Commerce in Cloud Computing Environment : A Literature Review*", Vol 7, issue 5, pp 130-137, International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN: 2456-3307, October 2021.
 48. Syed Ali Mehdi, S. Zeeshan Hussain, "*A Survey on Intrusion Detection System in IoT*

- Network*", 5th International Conference on Innovative Computing And Communication (ICICC) 2022, Organised by Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi in association with National Institute of Technology, Patna & Korea Institute Of Digital Convergence, South Korea, University of Valladolid, Spain, Publisher Springer, ISBN: 978-981-16-2594-7, 19-20 February, 2022.
49. Sultana Parween, Syed Zeeshan Hussain, "*Comparative analysis of CoAP based congestion control in IoT*", 4th international conference on recent trends in computer science and technology (ICRTCST) 2021, R V S College of Engineering and Technology, Jamshedpur, pp 321-324, IEEE Xplore, February 11-12, 2022.
 50. Syed Zeeshan Hussain, Sultana Parween, "*Comparative Study of TCP Congestion Control Algorithm in IoT*", 3rd International Conference on Advances in Computing, Communication Control and Networking (ICACCCN) 2021, pp 1428-1431, IEEE Xplore, March 9, 2022.
 51. Manoj Kumar, S Z Hussain, "*Simulation model for wireless body area network using castalia*", 2022 1st International Conference on Informatics (ICI), pp 204-207, IEEE Xplore, April 14, 2022.
 52. Sultana Parween, Syed Zeeshan Hussain, "*Cross-Layer based TCP Performance Enhancement in IoT Networks*", International Journal of Advanced Computer Science and Applications (IJACSA), pp 383-396, Vol. 13, issue 6, June 2022
 53. Syed Ali Mehdi, S. Zeeshan Hussain, "*Survey on Intrusion Detection System in IoT Network*", International Conference on Innovative Computing and Communications, pp 721-732, Vol. 2, Springer, Singapore, September 2022.
 54. Shalini Sharma, S. Zeeshan Hussain, "*Weighted Coefficient Firefly Optimization Algorithm and Support Vector Machine for Trust Model and Link Reliability*", International Journal of Computer Networks & Communications (IJCNC), pp. 117-132, Vol. 14, Issue 5, AIRCC Publishing Corporation, September 2022.
 55. Sultana Parween, Syed Zeeshan Hussain, "*TCP Performance Enhancement Using Cross-Layer Method in IoT Networks*", 2022 4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N), pp. 1820-1826, IEEE Xplore, December 16, 2022.
 56. Hadeel Mushtaq Shakir, Syed Zeeshan Hussain, "*A Comparative Study between Encryption Algorithms in Cloud Computing*", 2022 3rd Information Technology To Enhance e-learning and Other Application (IT-ELA), pp. 129-132, IEEE Xplore, December 27, 2022.
 57. Shalini Sharma, S. Zeeshan Hussain, "*A survey of trust based secure routing protocol used in mobile ad hoc networks*", ITM Web of Conferences Journal, vol. 54, pp. EDP Sciences, January 2023.
 58. Syed Zeeshan Hussain, Sultana Parween, "*Analysis of TCP Issues and Their Possible Solutions in the Internet of Things*", The International Arab Journal of Information Technology (IAJIT), SCI, ISSN: 2309-4524, Vol. 20, Issue 2, pp. 2026-214, Colleges of Computer and Information Society (CCIS), Zarqa University, Jordan, March 2023.
 59. Shalini Sharma, Syed Zeeshan Hussain, "*A Secure and Energy Efficient Cluster Based Routing Using Energy and Trust Aware - Multi Objective African Vultures Optimization for MANET*", International Journal of Intelligent Engineering and Systems, vol. 16, issue 3, pp 532-541, INASS Publisher, June 30, 2023.
 60. Manoj Kumar, SZ Hussain, "*An efficient and secure mutual authentication protocol in wireless body area network*", EAI Endorsed Transactions on Pervasive Health and Technology, Vol. 9, July 13, 2023.
 61. Sultana Parween, Syed Zeeshan Hussain, "*Efficient collision control and auction-based resource allocation mechanism in dense LoRaWAN network via TCP using DRL technique*", International Journal of Information Technology, pp- 1-19, Springer Nature, Singapore, June 16, 2024.
 62. Sultana Parween, Syed Zeeshan Hussain, "*TCP Performance Enhancement in IoT and MANET: A Systematic Literature Review*", International Journal of Computer Networks and Applications (IJCNA) Vol. 10, Issue 4, pp 543-568, EverScience Publications,

August 31, 2024.

63. Syed Zeeshan Hussain, Shalini Sharma, *"Trust-based secure and optimal route selection in MANET utilizing multiple agent-based reinforcement learning"*, International Journal of Advanced Technology and Engineering Exploration, vol. 11, Issue 119, pp 1418-1429, Accents Publication, October 2024.

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