Dr. Shirina Samreen
Assistant Professor

Education:

- Ph.D   Computer Science Engineering, Jawaharlal Nehru Technological University Hyderabad (JNTU) ,India, 2016
- M.Tech   Computer Science, Jawaharlal Nehru Technological University Hyderabad (JNTU) ,India, 2006
- B.Tech   Computer Science Engineering, Jawaharlal Nehru Technological University Hyderabad (JNTU) ,India, 2003

Academic Experience:

Academic Appointments - Majmaah University, Saudi Arabia
10/2018 – till date   Assistant Professor   College of Computer and Information Sciences

Academic Appointments -Birla Institute of Technology and Science(BITS),Pilani, India
05/2016 – 07/2018   Guest Faculty,   Computer Science & Engineering

Academic Appointments -Anurag group of Institutions, India
05/2016 – 06/2018   Associate Professor,   Computer Science & Engineering

Academic Appointments -Guru Nanak Institutions Technical Campus, India
08/2012 – 05/2013   Associate Professor,   Computer Science & Engineering

Academic Appointments – Nizam Institute of Engineering and Technology, India
09/2011 – 04/2012   Associate Professor,   Computer Science & Engineering

Academic Appointments – CMR Engineering College, India
01/2011 – 08/2011   Associate Professor,   Computer Science & Engineering

Academic Appointments – Nexus College of Science and Technology, India
11/2008 - 12/2010   Associate Professor,   Computer Science & Engineering

Academic Appointments – St. Mary's College of Engineering and Technology, India
12/2006 – 11/2008   Assistant Professor,   Computer Science & Engineering

Academic Appointments – Aurora's Engineering College, India
07/2006 – 12/2006   Senior Lecturer,   Computer Science & Engineering

Academic Appointments – Nizam Institute of Engineering and Technology, India
07/2003 – 07/2006   Assistant Professor,   Computer Science & Engineering

Certifications:

Big Data University Certificate holder on the following:
- Big Data Fundamentals
- Hadoop Fundamentals

Current Membership:

Member of IEEE

Honors & Awards:

- Best paper Award for the research paper entitled "**Countermeasures for Conflicting Behavior Attack in a Trust Management Framework for a Mobile Ad hoc Network**", presented in the **2017 IEEE International Conference on Computational Intelligence and Computing Research-ICCIC 2017**, held on December 14 2017

- Best paper Award for the research paper entitled "**Robustness to On-Off Dishonest Recommenders in a Trust Management Framework for a Mobile Ad hoc Network**", presented in the **2015 IEEE International Conference on Computational Intelligence and Computing Research-ICCIC 2015**, December 2015.

Most Important Publications and Presentations (Past 5 years):

International Journals:

1. Research paper entitled "**Packet Dropping Counter measures in a MANET through Reliable Routing Protocol leveraging a Trust Management Framework**" published in the **International Journal of Mobile Computing and Multimedia Communications (IJMCMC)**, ISSN: 1937-9412.

2. Research paper entitled "**Data Plane Security Solutions in a Mobile Ad hoc Network: A survey**" published in the **International Journal of Engineering and Applied Sciences, Medwell Publications**, ISSN: 1818-7803.

3. Research paper entitled "**Eminence Administration System in a united cloud - A Survey**" published in the **International Journal of Engineering Research in Computer Science and Engineering (IJERCSE)** (ISSN: 2394-2320), Volume 5, Issue 4, April'18.

4. Research paper entitled "**Security Challenges in Mobile Computing – A State of Art Survey**" published in the **International Journal of Research** (ISSN: 2348-6848), Volume 5, Issue 12, April'18.

5. Research paper entitled "**Improving Routing Algorithms and Inter-Flow Spatial Reusability in Wireless Network**" published in the **International Journal of Innovative Research in Science, Engineering and Technology** (ISSN: 2319-8753), Volume 6, Issue 8, August'17.

6. Research paper entitled "**Secure and Reliable Black Hole Detection Attack and to Increase the Network LifeTime in Wireless Sensor Networks**" published in the **International Journal of Innovative Research in Science, Engineering and Technology** (ISSN: 2319-8753), Volume 6, Issue 8, August'17.

7. Research paper entitled "**Trust based Data Plane Security Mechanism for a Mobile Ad hoc Network through Acknowledgement Reports**" published in the **International Journal of Computer Applications - IJCA** (0975 – 8887), Volume 130, Nov'15.

8. Research paper entitled "**Design of a Novel Trust Model and its application in Trust based Routing to defend against Dishonest Recommenders**" published in the **International Journal of Computer Applications - IJCA** (0975 – 8887), Volume 122, No. 2, July 2015.

9. Research paper entitled "**A Novel Uncertainty Reasoning Based Trust Model Robust to on-off Attacks and its Application in Trust Based Routing**" published in the **International Journal of Advanced Computing - IJCA",** ISSN: 2051-0845, Vol.48, Issue.1, June 2015.

10. Research paper entitled "**Dynamically Adaptive Recommender Filtering Scheme to defend against Dishonest Recommenders in a MANET**" published in the **International Journal of Science and Research- IJSR**, Vol.4, Issue 5, May 2015.

International Conferences:

1. Research paper entitled "**Countermeasures for Conflicting Behavior Attack in a Trust Management Framework for a Mobile Ad hoc Network**", accepted for presentation in the **2017 IEEE International Conference on Computational Intelligence and Computing Research-ICCIC 2017**, held on December 14 2017. Received the **Best Paper Award** for the said paper.

2. Research paper entitled "**Intrusion Detection System using machine learning: State of the Art Review**", accepted for presentation in the **2017 IEEE International Conference on Computational Intelligence and Computing Research-ICCIC 2017**, held on December 14-16 2017.

3. Research paper entitled " **Improved Recommendation Filtering Component Resilient to Trust Distortion Attacks in a MANET**", accepted for presentation in the **Second International Conference on Intelligent Information Technologies (ICIIT 2017)** held in December 2017 and published in **Springer CCIS (ISSN : 1865-0929)** .

4. Research paper entitled " **Performance of Path Allegiance Metric based routing protocol under varying Disbelief Threshold of a Trust Management Framework**", presented in the **IEEE International Conference on Circuits, Control, Communication and Computing (I4C 2016)** held in October 2016.

5. Research paper entitled " **Refinement of Recommendation trust for accurate detection of dishonest recommenders with on-off attack pattern**", presented in the **IEEE International Conference on Circuits, Control, Communication and Computing (I4C 2016)** held in October 2016.

6. Research paper entitled "**Intelligent network intrusion detection using alternating decision trees**", presented in the **IEEE International Conference on Circuits, Control, Communication and Computing (I4C 2016)** held in October 2016.

7. Research paper entitled " **Heart disease prediction system based on hidden naïve bayes classifier**", presented in the **IEEE International Conference on Circuits, Control, Communication and Computing (I4C 2016)** held in October 2016.

8. Research paper entitled " **Impact of Trust Management Framework on the performance of Path Allegiance Metric based routing protocol in a Mobile Ad hoc Network**", presented in the **IEEE International Conference on Automatic Control and Dynamic Optimization Techniques (ICACDOT 2016)** September 2016 organized by **IIIT-Pune**, India.

9. Research paper entitled "**Survey on Data Plane Security Solutions in a Mobile Ad hoc Network**", presented in the **5th International Conference on Innovations in Electronics and Communication Engineering (ICIECE - 2016)** July 2016 organized by Guru Nanak Institutions, Hyderabad, India.

10. Research paper entitled "**Enhanced RecommFilter scheme to efficiently filter out Dishonest Recommenders in a Mobile Ad hoc Network**", presented in the **1ˢᵗ International Conference on Computational Intelligence & Informatics (ICCII-2016)** May 2016 organized by JNTUH College of Engineering, Hyderabad, India.

11. Research paper entitled "**Defense against On-Off Packet Droppers in a Trust Management Framework for a Mobile Ad hoc Network**", presented in the **IEEE International Conference on Internet of Things and Applications-IOTA 2016** January 2016 at Maharashtra Institute of Technology, Pune, India.

12. Research paper entitled "**Robustness to On-Off Dishonest Recommenders in a Trust Management Framework for a Mobile Ad hoc Network**", presented in the **2015 IEEE International Conference on Computational Intelligence and Computing Research-ICCIC 2015**, December 2015, at Vickram College of Engineering, Madurai, India. Received **Best Paper Award** for the said paper.

13. Research paper entitled "**Data plane security through Trust based routing utilizing a Path Allegiance Metric in a Mobile Ad hoc Network**", presented in the **International Conference on Innovations in Computer Science and Information Technology – ICICSIT 2015**, August 2015, at Mahatma Gandhi Institute of Technology, Hyderabad, India.

14. Research paper entitled "**A novel approach to Secure Routing through Path Allegiance Metric in a Mobile Ad hoc Network**" presented in the **2015 International Conference on Electronics, Computing and Communication Technologies (CONECCT 2015)** held on July 10-11, 2015, organized by **IEEE Bangalore Section** at **IIIT-Bangalore**, India.

Professional Development Activities (Most recent):

1. Reviewer for IEEE Access.
2. Reviewer for International Journal of Information Security and Privacy (IJISP), IGI Global
3. Reviewer for Journal of Engineering and Applied Sciences (JEAS), Majmaah University.
4. Reviewer for IEEE Wireless Communication Magazine.
5. Reviewer for International Conference on Control, Electronics, Renewable Energy, and Communications (ICCEREC 2016) at Bandung, West Java.
6. Session Chair for 2017 IEEE International Conference on Computational Intelligence and Computing Research-ICCIC 2017, Coimbatore, India