

Curriculum Vitae

Dr. Rafat Parveen

Asstt. Professor (Senior Scale)

Department of Computer Science

JAMIA MILLIA ISLAMIA (CENTRAL UNIVERSITY)

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CAREER OBJECTIVES

- Effective Teaching, Research and Academics
- Curricular Innovations and Development
- Hi-Tech Learning Environments

EMPLOYMENT

- **Asstt. Professor(Senior Grade)** at the Department of Computer Science, Jamia Millia Islamia (Central University), New Delhi, India
- **Chairperson, Associate Professor** (25. Oct, 2011- Sept,2016) Department of Information Systems Faculty of Computing and Information Technology King Abdulaziz University, KSA
- **Asstt. Professor(Senior Grade)** (Aug-2008 to Oct 21,2011) Department of Computer Science Jamia Millia Islamia (Central University), New Delhi, India
- **Asstt. Professor**(July-2001 to Aug-2008) Department of Computer Science, Jamia Millia Islamia (Central University), India

PROFESSIONAL & ACADEMIC QUALIFICATIONS

- **Ph.D. (Computer Science)** from Department of Computer Science, Jamia Millia Islamia, New Delhi (**Awarded in December 2007**).
Title: “Modeling and Simulation of Gene Regulatory Network”
- **M.Tech.(Computer Science)**, Banasthali Vidyapeeth, Jaipur Rajasthan (**2001**).
- **M.Sc. (Mathematics with)** from Jamia Millia Islamia, New Delhi (**1998**)

ADMINISTRATION

- [1] **Nodal Officer-IQAC**, Department of Computer Science, Jamia Millia Islamia, New Delhi
- [2] **Coordinator- DRC**, Department of Computer Science, Jamia Millia Islamia, New Delhi
- [3] **Coordinator- DBT- BIF- Project**, Department of Computer Science, Jamia Millia Islamia, From (June 2006- Oct 20,2011) (From Jan 2019-Till Date)
- [4] **Chairperson**, Department of Information Systems, FCIT, Rabigh, King Abdulaziz University, KSA(Nov,2011- May, 2016)
- [5] **Coordinator-M.Sc.(Bioinformatics) Program**: Department of Computer Science, Jamia Millia Islamia, From (2005- Oct 20,2011)
- [6] **Coordinator Placement M.Sc.(Bioinformatics) Program**: Department of Computer Science, Jamia Millia Islamia, From (2006- Oct 20,2011) Since Oct 2016-Till date
- [7] **Coordinator-MCA** - Department of Computer Science, Jamia Millia Islamia, From (2003- 2010)

- [8] **Coordinator-PGDCA** - Department of Computer Science, Jamia Millia Islamia, From (July 2005-2008)
- [9] **Coordinator-Computing Lab** - Department of Computer Science, Jamia Millia Islamia, From (May 2005- July 2008)
- [10] **Coordinator-Placement**- Department of Computer Science, Jamia Millia Islamia, From (May 2002 – July 2008)

RESEARCH INTEREST

- Computational Biology & Bioinformatics (Biological Networks Modeling, Microarray and Next-Generation Sequencing Analysis, Computational Systems Biology)
- Cloud Computing and cloud security
- Image Processing
- Machine Learning
- Wireless Security

RESEARCH PUBLICATIONS

- [1] M. Tajammul and R. Parveen, "Key Generation Algorithm Coupled With DES for Securing Cloud Storage," International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958, Volume-8 Issue-5, June 2019 no. 5, pp. 1452-1458, 2019. **Scopus Indexed**
- [2] Mohd. Tajammul, Rafat Parveen, "Two Pass Multidimensional Key Generation and Encryption Algorithm for Data Storage Security in Cloud Computing", International Journal of Engineering Research and Technology ISSN:09743154, **Scopus Indexed, Accepted**
- [3] Mohd. Tajammul, Rafat Parveen, "Algorithm for Document Integrity Testing Pre Upload and Post Download from Cloud Storage" International Journal of Recent Technology and Engineering ISSN:22773878, **Scopus Indexed, Accepted**
- [4] Mohd. Tajammul, Rafat Parveen, "Auto Encryption Algorithm for Uploading Data on Cloud Storage", BIJIT - BVICAM's International Journal of Information Technology ISSN: 2511-2104 (print version)- **Springer Nature, Accepted**
- [5] Mohd. Tajammul, Rafat Parveen, "Data Sensitive Algorithm Integrated With Compression Technique for Secure and Efficient Utilisation of Cloud Storage", Journal of Engineering Science and Technology (JESTEC), ISSN: 1823-4690, **Scopus Indexed, Web of Science, ESCI, Accepted**
- [6] M. Tajammul, R. Parveen, and M. Shahnawaz, "Cloud Computing Security Issues and Methods to Resolve : Review," vol. 5, no. 7, pp. 545-550, 2018.
- [7] Tajammul M., Delhi, N. (2018). Comparative Study of Big Ten Information Security Management System Standards, International Journal of Engineering Research in Computer Science and Engineering (IJERCSE) Vol 5, Issue 2, February 2018(2), 514.
- [8] Tajammul, M. Parveen, R. (2017). Comparative Analysis of Big Ten ISMS Standards and Their Effect on Cloud Computing, 978-1-5386-0627 8/17/31:00c2017IEEE; 9001; 362367.
- [9] Tajammul, M. Parveen, R. ,Cloud Computing Security Issues And Methods To Resolve, International Conference on "Mobile Communication, Electronics, Robotics, Machine Learning, Data Mining, Information Sciences and Electrical Engineering" (MERDIE- 2018)
- [10] Tajammul, M. Parveen, R. ,Auto Encryption Algorithm for Uploading Data on Cloud Storage, International Conference in Jamia Hamdard University, 2019
- [11] Tajammul, M. Parveen, R. ,Comparative Study of Big Ten Information Security Management System Standards, International Conference on "Communication and Unimpeachable Technologies, 2017.
- [12] Tajammul, M. Parveen, R. ,Comparative Analysis of Big Ten ISMS Standards and Their Effect on Cloud Computing, International Conference, IC3TSN, 2017
- [13] **Parveen, R. & Raza, K.** (2013). Reconstruction of gene regulatory network of colon cancer using information theoretic approach. In Proc. of 4 th International Conference (CONFLUENCE-2013): The Next Generation Information Technology Summit, 26-27 Sept., 2013, p. 461-466. doi: 10.1049/cp.2013.2357 (IEEE Xplore & IET Digital Library).
- [14] Raza, K. & **Parveen, R.** (2012). Soft computing approach for modeling genetic regulatory networks. Advances in Intelligent Systems and Computing, 178, 1-11, Springer-Verlag Berlin Heidelberg, doi: 10.1007/978-3-642-31600-5_1
- [15] Raza, K. & **Parveen, R.** (2012). Evolutionary algorithms in genetic regulatory network model. Journal of Advanced Bioinformatics Applications and Research, 1(3), 271-280. (Global IF 1.057)

- [16] Rafat Parveen, Simulation of Regulatory Networks,WORLDCOMP,International Conference,USAJuly 17- 21,2011
- [17] Read I.Hamed , Rafat Parveen and Prof.Syed I.Ahson. Modelling Cellular Process of the Eukaryotic Using Hybrid Functional Petri Nets, International Journal of Bioinformatics, ISSN:0974-6439, Vol. 1(2), pp. 55-56. July-Dec,2008
- [18] Read I.Hamed , Rafat Parveen and Prof.Syed I.Ahson, A new approach for Modeling Gene Regulatory
- [19] Networks Using Fuzzy Petri Nets.Journal of Integrative Bioinformatics(JIB), Vol 7(1):113,p.p.1-16,2010,Germany
- [20] Rafat Parveen ,Read I.Hamed and Prof.Syed I.Ahson,Petri Nets Modeling and Simulation of Transcriptional Regulation in E.Coli.A Journal of Bioinformatics and its Applications ,Bioinformatics Trends;Vol(2 & 3),pp.87-91,2009
- [21] Read I.Hamed , **Rafat Parveen** and Prof.Syed I.Ahson,Designing Genetic Regulatory Networks Using Fuzzy Petri Nets Approach (IJAC),Springer-Verlag Berlin Heidelberg, Vol 7(3),pp403-412,2010
- [22] **Rafat Parveen** ,Read I.Hamed and Prof.Syed I.Ahson ,A new Interpretation of Gene Expression Microarray Data Sets Using Petri Net Approach, International Journal of Engineering Research and Industrial Applications(IJERIA).ISSN.0974-1518,Vol 3,No. 1,pp.11-25,2010
- [23] Raed I. Hamed, Prof. Syed I. Ahson and **Rafat Parveen**. The Dimensions of Petri nets: Modeling Strategies for Gene Regulatory Networks. Second International Conference on Advances in Computer Vision and Information Technology (ACVIT-2009). Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India. December 16-18, pp. 359-368, 2009.
- [24] Raed I. Hamed, Prof. Syed I. Ahson and **Rafat Parveen**. From Fuzzy Logic Theory to Fuzzy Petri Nets Predicting Changes in Gene Expression Level. International Conference on Methods and Models in Computer Science (ICM2CS-09), (IEEE Xplore),Jawaharlal Nehru University, New Delhi, India. December 14-15, pp. 139-145, 2009.
- [25] Raed I. Hamed, Prof. Syed I. Ahson, and **Rafat Parveen**. Fuzzy Model for Gene Regulatory Networks Based on Fuzzy Reasoning Petri Nets. 4th International Conference on Quality, Reliability and Infocom Technology and Mathematical Modeling and Related Optimization Techniques (trends and future directions). University of Delhi. New Delhi, India. December 18-20, 2009.
- [26] Raed I. Hamed, Prof. Syed I. Ahson and **Rafat Parveen**. Inferring reversely. Gene Regulatory Networks from Microarray Datasets Using Fuzzy Petri Net Approach. 1st IFIP International Conference on Bioinformatics. Sardar Vallabhbhai National Institute of Technology, SURAT, India. March 25-28, 2010.
- [27] Raed I. Hamed, **Rafat Parveen** and Prof. Syed I. Ahson. Modeling and Simulation Gene Expression Regulatory Networks with Fuzzy Petri Net Models. International Conference on Computational Intelligence and Application (ICCIA-2010), Sandip Foundation's, Nashik, India. March 03-05, pp. 143-153, 2010.
- [28] **Rafat Parveen** ,Read I.Hamed and Prof.Syed I.Ahson. Fuzzy Reasoning Boolean Petri Nets Based Method for Modeling and Analysing Genetic Regulatory Networks. 3rd International Conference on Contemporary Computing (IC3-2010), (Springer-Verlag Berlin Heidelberg (Book Chapter)), Noida-201307, Uttar Pradesh, India. August 9-11, Vol. 94(1), pp. 530-546, 2010.
- [29] Raed I. Hamed, and **Rafat Parveen**. Categorization and Comparative Classical Petri Nets and High-Level Petri Nets. Second National Conference on Mathematical Techniques: Emerging Paradigms for Electronics and IT Industries (MATEIT-2008), Deen Dayal Upadhyaya College, University of Delhi, New Delhi. September 26-28, 2008.
- [30] Raed I. Hamed, **Rafat Parveen** and Prof. Syed I. Ahson. Petri Nets for Modeling and Simulation of Gene Regulatory Networks. UGC National Conference on Bioinformatics and Computational Technologies (BioCT09), Department Of Computer Scince and Engenering, Jai narain Vyas University, Jodhpur, India. March 21-22, 2009.
- [31] Raed I. Hamed, and **Rafat Parveen**. Intuitive Modeling of Biological Processes with Fuzzy Petri Net and Fuzzy Logic. Third National Conference on Mathematical Techniques: Emerging Paradigms for Electronics and IT Industries (MATEIT-2010), Deen Dayal Upadhyaya College, University of Delhi, New Delhi, India. January 30-31, 2010.
- [32] Raad A. Muhajjar, S. Kazim Naqvi **Rafat Parveen.**, Nupur Prakash, "Statistical Analysis of
- [33] /dev/random, a pseudorandom number generator", International Journal of Engineering Research and Industrial Applications (IJERIA),ISSN 0974-1518, Volume 2, No. II, 2009.
- [34] Raad A. Muhajjar, Nupur Prakash, and S. Kazim Naqvi **Rafat Parveen**, "A Universal Fuzzy Statistical Test for Bit Strings", International Journal of Computation Intelligence and Applications (IJCIA).
- [35] **Rafat Parveen**, Nahla A. Falyh and Syed I. Ahson, Partial Encryption of Compressed Images, International Journal of Engineering Research and Industrial Applications (IJERIA), ISSN 0974-1518, Vol.2, No.III (2009), PP 89-98.

- [36] Nahla A. Falyh **Rafat Parveen**, and Syed I. Ahson, Wavelet Based Partial Image Encryption, International Journal of Wireless Sensor Network (WSN), USA
- [37] Romana Ishrat, **Rafat Parveen** and S.I.Ahson, " Decision Tree for Software Quality Estimation", Natural Science Info Fest, Organized by Faculty of Natural Sciences, Jamia Millia Islamia, 1st Nov,2008
- [38] Romana Ishrat, **Rafat Parveen** and S.I.Ahson, "Decision Tree Techniques for Object-Oriented Software Quality Estimation", Proceedings of Advances in C. Science and Engineering, International Conference on Data Management, Feb, 2009.
- [39] Romana Ishrat, **Rafat Parveen** and S.I.Ahson, "Object Oriented Software Estimation- A Fuzzy Decision Tree Perspective". International Journal of Mathematical Sciences and Engineering Applications, Vol. 4 No. 1,33-46,(ISSN-0973),2010.

BOOK PUBLISHED.

Title: **Cloud Computing
Introduction to Innovation**

Author: **Mr. Mohd. Tajammul, Dr. Rafat Parveen**

Publisher: **International Research Publication House**

Pages: **188**

ISBN: **978-93-87388-31-4**

FUNDED RESEARCH PROJECTS

Title: Bioinformatics Infrastructure

Facility (BIF) Role: **Project Investigator**

Funding: Department of Biotechnology, Govt. of India

Ph.D. GUIDANCE

Sr.	Name	Title	Remark
1	Mohd. Tajammul	Development of Secured Framework for Cloud Storage	Ongoing
2	Meenu Sharma	Early Prediction of Liver Cancer	Ongoing
3	Anam Beg	Modeling of gene regulatory networks for druggable targets of ovarian cancer and finding its potential inhibitor.	Ongoing
4	Hirday Kumar Gupta	Development of a secure framework for Big Data Analytics.	Ongoing
5	Khalid Raza	Modelling Biological Networks Using Soft Computing Approach	Awarded in 2014
6	Romana Ishrat	Machine Learning Approach for Software Quality Assurance	Awarded in 2011
7	Raed I. Hamed	Modeling and Simulation of Gene Regulatory Networks Using Petri Nets	Awarded in 2011
8	Nahla A. Falyh	Image Processing Using Wavelet Based Partial Encryption of Compressed Images	Awarded in 2010
9	Raad Abdulhassan Muhajjar	Securing Wireless Hotspot Networks	Awarded in 2009

SELECT LECTURES/SEMINARS

- [1] Delivered 30+ invited talk and Seminars at National and International Level.
- [2] Delivered a seminar topic entitled " **P5- System Of medicine?** " on March 19,2012 at , FCITR, King Abdulaziz University, KSA
- [3] 21st Century Science: **The Systems Biology in workshop on Bioinformatics Applications in Systems Biology held during** 3-4 March, 2010.
- [4] **Emerging Trends in Web Technologies in Refresher Course** Organized by Academic Staff College during December 2004

- [5] Introduction to Bioinformatics in workshop entitled '[Databases and Data Mining in Bioinformatics](#)' during 14 – 16, November, 2007

SELECT PARTICIPATION

- [1] A Symposium on 24 year of the Bioinformatics in India (1986-2011) - [A Symposium](#), February 2, 2010, CARL,Port Blair, India
- [2] DBT XXII BTISNet Coordinators Meeting - "24 year of the Bioinformatics in India (1986-2011)" Silver Jubilee Celebration, February 3-4, 2010; CARL,Port Blair, Andman & Nicobar Islands, India
- [3] [International Conference](#) on Chemistry in Computer Science , Center for interdisciplinary Research in Basic sciences Nov, 2010
- [4] [International Conference](#) on recent trends in Mathematics & its Applications, Department of Mathematics, Jamia Millia Islamia, March 30-31, 2009
- [5] [International Conference](#) on Mathematics in Biology,Centerfor Interdisciplinary Research in Basic sciences,Jamia Millia Islamia University, November 2009
- [6] [Conference on Softcomputing](#) Machine learning and Bioinformatics Applications, Department of Computer Science, Jamia Millia Islamia University, New Delhi, India (17-19 Nov 2004).
- [7] [Workshop](#) on IT Services and Applications , Center for Info. Technology and Department of Computer Science, Jamia Millia Islamia University, New Delhi, India (27-28 Feb 2003).
- [8] [Conference on Education: Breaking the Barrier](#), Center for Information Technology, Jamia Millia Islamia, New Delhi, India.
- [9] [One day workshop](#) on Laboratory, Department of Computer Science, Jamia Millia Islamia, N. Delhi.
- [10] [National Workshop](#) on IT Services and Applications, Feb 27-28, 2003; Jamia Millia Islamia, N, Delhi
- [11] Cloud Computing Security Issues And Methods To Resolve, [International Conference](#) On "Mobile Communication, Electronics, Robotics, Machine Learning, Data Mining, Information Sciences and Electrical Engineering" (MERDIE- 2018)
- [12] Auto Encryption Algorithm for Uploading Data on Cloud Storage, [International Conference](#) in Jamia Hamdard University, 2019
- [13] Algorithm for Document Integrity Testing Pre Upload and Post Download from Cloud Storage, [International Conference](#) in Mahatma Gandhi Engineering College, Noida, 2019
- [14] Comparative Study of Big Ten Information Security Management System Standards, [International conference](#) in GD Goenka University 2017
- [15] Comparative Analysis of Big Ten ISMS Standards and Their Effect On Cloud Computing, [International conference](#), IIR Publications, 2017
- [16] How to connect SARC countries by cloud computing at Jamia Millia Islamia in 2017. [International Seminar](#), 2017

EVENTS ORGANIZED

- [1] [9th DBT-BIF National Workshop](#) on Translational Bioinformatics: Guinness Book Recording to Digital Era **NWTB:GB2DE-2019**during March 5-6, 2017, organized by BIF Center, Department of Computer Science, Jamia Millia Islamia, Central University, India, and funded by Department of Biotechnology, Govt. of India, New Delhi, India.
- [2] [Organized extension lectures on Modified Genetic Algorithm](#), Prof. Deo Prakash Vidyarthi, School of Computer & Systems Sciences, Jawahar Lal Nehru University, New Delhi-110067 was delivered on 24/11/2016 .
- [3] [Organized extension lectures](#) on "Structural basis of the antibiotic action of innate immunity proteins and their therapeutic applications as protein-antibiotics ,Prof.T.P.Singh, INSA Senior Scientist, Department of Biophysics, All India Institute of Medical Sciences, New Delhi-110029 on 29/11/2016
- [4] [Member, Organizing Committee](#), A Symposium on R & D in Computer Science, March 12, 2011, Department of Computer Science, Jamia Millia Islamia, New Delhi
- [5] [Member, Organizing Committee](#), HOP-2011: An IT Carnival, March 11, 20011; Department of Computer Science, Jamia Millia Islamia, New Delhi
- [6] [Convener, Organizing Committee, BIF Workshop-Bioinformatics](#) Applications in Systems Biology, March 3-4, 2010, Department of Computer Science, Jamia Millia Islamia, New Delhi
- [7] [Convener, Organizing Committee, BIF Workshop-Bioinformatics](#) Applications in Research and Development, February 19-20, 2009, Department of Computer Science, Jamia Millia Islamia, New Delhi

- [8] **Member, Organizing Committee, NSIF'08: Natural Science** InfoFest' 2008, March 04-06, Jamia Millia Islamia, New Delhi, India
- [9] **Member, Organizing Committee, WITSA2003:** The National Workshop on IT Services and Applications, Feb 27-28,2003 Jamia Millia Islamia, New Delhi, India
- [10] **Member, Organizing Committee,EBB-2003:** Conference on Education-Breaking the Barriers, March 27- 29, 2003 at Jamia Millia Islamia, New Delhi, India
- [11] **Member, Organizing Committee, Conference** on Soft computing Machine learning and Bioinformatics Applications,Jamia Millia Islamia University, New Delhi, India (17-19 Nov 2004).
- [12] **Convener,** Organizing Committee, Databases and Data Mining in Bioinformatics' November 14-16, 2007, at Jamia Millia Islamia, New Delhi, India
- [13] **Member, Organizing Committee, BIF training Program,** semantic Web and Ontologies in Bioinformatics, January 9 – 11, 2008, at Jamia Millia Islamia, New Delhi, India

COURSES TAUGHT

- [1] Data Communications and Networking
- [2] Internet Technologies and Applications
- [3] E-Commerce
- [4] Computer Networks
- [5] Data Structures
- [6] Advance Programming in JAVA
- [7] Developing Java Software
- [8] Business Data Processing
- [9] Computing Fundamentals
- [10] Network Technologies
- [11] Object Oriented Programming Paradigms
- [12] Fundamentals to Bioinformatics
- [13] Systems Biology
- [14] Computer Organization and Architecture
- [15] Integrated Programming and Technologies
- [16] Issues in Computer Technology
- [17] Information Security
- [18] Microprocessor and Computer Architecture
- [19] Website Design and Management

PROJECTS UNDERTAKEN

- Chloropath Mapping in Java –**M.Tech.**
- Modeling Using Genetic Algorithm—**M.Tech.**
- Development of a User Friendly Package for Solving Linear Programming Problems – **M.Tech.**
- 2 to 3 Major Projects annually since 2001 till 2011, 2016-Till Date - **MCA**
- 3 to 4 Fourth Semester Projects annually from 2006 till 2011, 2016- till date – **MSc**

PERSONAL DETAILS

- Full Name – Dr. Rafat Parveen
- Father's Name - Mr. A.Q.Khan
- Place of Birth –New Delhi
- Marital Status- Married
- Religion - Islam
- Nationality – Indian
- State of Domicile - Delhi (India)
- Languages Known - English , Hindi , Urdu & Arabic (R/W)
- Hobbies – Reading, Playing and Academic Discussion

Date: August/2019

Signature.