

Resume

House No. E3/2,
Near Kahkasha Masjid,
Okhla Vihar, Jamia Nagar,
New Delhi-110025
9911903930

Bashir Alam

Presently Working

As Professor in the Department of Computer Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia(A Central University), New Delhi-110025

Experience

About 20 years of teaching at post graduate, graduate and under graduate levels

Classes taught

Ph.D.(course work), M.Tech.(Computer Engineering) B.Tech./ B.E.(Computer Engineering),M.C.A., M.Sc.(Computer Science/ Information Technology)M.Sc.(Maths with Computer Science)/ B.C.A. /B.Sc.(Computer Science/ Information Technology)/B.I.T., Diploma(Computer Engineering) M.Sc.Tech(Industrial Maths with Computer Application)

Courses Taught

Parallel programming, HPC, cluster programming, Programming Massive Parallel Processor Computer Organization, Computer Architecture, Computer Design, Advanced Computer Architecture, Parallel and Distributed System, Distributed Processing/Computing, Parallel Processing/Computing, Data structure, Algorithm Design and Analysis, Operating system, Computer Network, Internet Technology, System software, Microprocessor , Assembly language Programming, Data Base Management System, AI, Prolog, C programming, Visual Language Programming, C, C++, Java, VB, Embedded System. Embedded system, Soft Computing Techniques, DBMS, Distributed Databases , Formal Languages and Automaton Theory, Compiler Design.

Academic Qualification

- Ph.D.(Computer Engineering) from Jamia Millia Islamia, New Delhi, India in 2010
- M.Tech.(IT) from IP University ,Delhi, India in 2006 with division first (73 % marks)
- B.Tech.(Computer Engineering) from Aligarh Muslim University Aligarh, Uttar Pradesh, India in 2000 with division First(Hons)(8.6 /10 CPI)

- Senior Secondary School Examination from Aligarh Muslim University Aligarh, Uttar Pradesh, India in 1995 with division First(73% marks) and distinctions in Physics, Chemistry and Mathematics

Previously worked

- as Lecturer , Department of Computer Science, Jamia Hamdard, New Delhi-110062 from 04/07/2000 to 21/09/2006.
- as Assistant Professor, Department of Computer Engineering, Jamia Millia Islamia, New Delhi-110025 from 22/09/2006 to 27/7/2007.
- as Senior Assistant Professor, Department of Computer Engineering, Jamia Millia Islamia, New Delhi-110025 from 28/07/2007 to 27/7/2012.
- as Assistant Professor Reader, Department of Computer Engineering, Jamia Millia Islamia, New Delhi-110025 from 28/07/2012 to 27/7/2015.
- as Associate Professor, Department of Computer Engineering, Jamia Millia Islamia, New Delhi-110025 from 28/07/2015 to 27/7/2018.

Principal Investigator for the following Funded Research Projects

- “(GPU based Router using Multigraph)”, funded by Jamia Millia Islamia, amount 1 lac
- “(NVIDIA CUDA teaching Centre)” funded by NVIDIA by means of donating one Tesla K20, two Quadro K5000 and two GTX 750 GPU along with two jetson TK1 Board and Books worth 6 Lacs

Ph.D. Supervision

Awarded:-06

Working:-06

(Awarded list with topic and date of award)

- Shortest Path algorithms in Multigraphs and RT- Multigraphs(16.3.2015)
- Developing a Framework for Cloud database Management System Architecture (23.5.2018)
- Performance Improvement of Routing Protocols in MANET using Soft Computing Techniques(13.9.2018)
- Energy Efficient cluster based secure Routing protocol for wireless sensor networks(13.3.2019)
- Fault tolerant and energy efficient scheduling algorithms for Real Time systems(13.3.2019)
- Study of Cryptographic Key Management in Perspective of Cyber Security(25.11.2019)

Patents

1. Om Pal and Bashir alam, "Centralized Digital System for PPV and PPC Multimedia services for Conditional Access System", Indian patent, patent application No.: 201811007055 dated 24.02 2018(published)
2. Bashir alam and Om Pal, "Method and system for secure group communication for dynamic group", Indian patent, patent application No.: 201811022702 dated 18.06. 2018(published)

Publications

Books Published: 01 (Digital Logic Design, 2016 , PHI, New Delhi)

JOURNAL PAPERS

1. Om Pal & **Bashir Alam**, "ECC based Key Management for Pay-TV System", **IEEE Transactions on Consumer Electronics** , vol. 66, No1, February 2020,pp1-10, (SCI Journal, H index 90 & Impact factor 2.083).
2. Om Pal & **Bashir Alam**, "Efficient and Secure Conditional Access System on Pay-TV System", **Multimedia Tools and Applications** , vol. 78, No.13,pp 18835-18853, Feb.2019, Springer(SCI Journal, H Index 52 and Impact Factor 2.1)
3. Mehra, P.S., Doja, M.N., & Alam, B.: **Codeword Authenticated Key Exchange (CAKE) secure routing protocol for WSN**, *International Journal of Communication Systems*”, Vol. 32, Issue 3, John Wiley & Sons Inc , Feb. 2019, (-SCI, H index 41 and . IF-1.278)
4. Wakar Ahmad · **Bashir Alam**· Sanchit Ahuja· Sahil Malik, **A dynamic VM provisioning and de-provisioning based cost-efficient deadline-aware scheduling algorithm for Big Data workflow applications in a cloud environment**, **Cluster Computing** ,April 2020, published online, Springer (Impact Factor 1.85,SCI, H Index 41)
5. Wakar Ahmad & **Bashir Alam** , "An Efficient List Scheduling Algorithm with Task Duplication for Scientific Big Data Workflow in Heterogeneous Computing Environments", **Concurrency and Computation: Practice and Experience**, John Wiley & Sons Inc ,(SCI, ,IF 1.167 H Index 63) in press
6. Arvind Kumar and Bashir Alam," Task Scheduling in Real Time Systems with Energy Harvesting and Energy Minimization" Journal of Computer Science. (Science Publication, SCOPUS Indexed, DOI: 10.3844/jcssp.2018, H-index: 21), Volume 14, Issue 8, pp 1126-1133, 2018,<https://thescipub.com/abstract/10.3844/jcssp.2018.1126.1133>
7. Arvind Kumar and Bashir Alam, "Energy Harvesting Earliest Deadline First Scheduling Algorithm For Increasing Lifetime of Real Time Systems" International Journal of Computer and Electrical Engineering, , (IAES SCOPUS Indexed, DOI: DOI: 10.11591/ijece.v9i1 pp539-545, Vol. 9, No. 1, February 2019, pp. 539~545 H-index: 11).
8. Pawan Singh Mehra, M.N. Doja and bashir Alam, "Stability Enhancement in LEACH (SE-LEACH) for WSN", EAI Endorsed Transaction on Scalable Information Systems, 2032-9407
9. Pawan Singh Mehra, M.N. Doja and bashir Alam, "Enhanced clustering algorithm based on Fuzzy Logic (E-CAFL) on WSN", Scalable Computing: Practices & Experience,vol. 20(1), pp. 41-54, ISBN-1895-1767

10. Om Pal, Bashir Alam, Vinay Thakur & Surendra Singh “Key Management for Blockchain technology”, ICT Express, Elsevier, (In Press), 12 August 2019, <https://doi.org/10.1016/j.ict.2019.08.002>
11. Vivek Sharma, Bashir Alam, M.N Doja,” A-OLSR: ANFIS based OLSR to select Multi point Relay” . International journal of electrical engineering and computer science, vol 9 No.1 , pp-646-651, 2018. DOI: 10.11591/ijece.v9i1.pp646-651.
12. Mehra, P.S., Doja, M.N., Alam, B.: “**Fuzzy Based Enhanced Cluster Head Selection (FBECs) for WSN**”, *Journal of King Saud University-Science*. (Scopus Indexed-Elsevier), (in press), <https://doi.org/10.1016/j.jksus.2018.04.031>
13. Mehra, P.S., Doja, M.N., Alam, B.: **Zonal based approach in clustering in Heterogeneous WSN**. *International Journal of Information Technology*.(Springer) (H-Index-19), (2017). <https://doi.org/10.1007/s41870-017-0071-2>
14. Shweta Malhotra, Mohammad Najmud Doja, Bashir Alam, Mansaf Alam, "Skipnet-Octree based indexing technique for Cloud Database Management System", International Journal of Information Technology and Web Engineering (IJITWE) Special Issue: *Cloud Computing and Analytics in Web Engineered Environments*, Volume 13, Issue 3, Article 3, Pages 1-13, July-Sept. 2018, **Indexed in [Web of Science-ESCI, Scopus, DBLP]**, IGI Publication USA, Available at <https://www.igi-global.com/article/skipnet-octree-based-indexing-technique-for-cloud-database-management-system/204356>
15. Vivek Sharma, Bashir Alam, M.N Doja,” ANFIS Aided AODV Routing Protocol for Mobile Ad Hoc Networks”. Journal of computer science, a Scopus indexed journal, Volume 13, Issue 10, Pages 514-523, 2017. DOI: 10.3844/jcssp.2017.514.523
16. Vivek Sharma, Bashir Alam, M.N Doja,” Comparative Study of Fuzzy Logic Mobility based FLM-AODV Routing Protocol and AODV in MANET’s”. Indonesian Journal of Electrical Engineering and Computer Science, a Scopus indexed journal. Vol.7 No. 1, pp-158-163, 2017. DOI: 10.11591/ijeecs.v7.pp158-163.
17. Shweta Malhotra, Mohammad Najmud Doja, Bashir Alam, Mansaf Alam, ”E-GENMR: Enhanced Generalized Query Processing using Double Hashing Technique through MapReduce in Cloud Database Management System”, Journal of Computer Science, Volume 13, Issue 7, Pages 234-246, 2017 ,Science Publications USA, **Indexed in [Scopus]**, Available at (<http://thescipub.com/abstract/10.3844/jcssp.2017.234.246>).
18. Shweta Malhotra, Mohammad Najmud Doja, Bashir Alam, Mansaf Alam, ”E-GENMR: Enhanced Generalized Query Processing using Double Hashing Technique through MapReduce in Cloud Database Management System”, Journal of Computer Science, Volume 13, Issue 7, Pages 234-246, 2017 ,Science Publications USA, **Indexed in [Scopus]**, Available at (<http://thescipub.com/abstract/10.3844/jcssp.2017.234.246>).
19. Shweta Malhotra, M.N. Doja, Bashir Alam, Mansaf Alam, “Cloud Database Management System Security Challenges and Solutions: An Analysis”, CSI transactions on ICT, Volume 4, Issue 2, pp 199–207, Springer, **Indexed in [Scopus]**, **8 December 2016**, Available at (<https://doi.org/10.1007/s40012-016-0125-9>).
20. Siddhartha Sankar Biswas and **Bashir Alam**, M.N.Doja “**Generalization of Dijkstra Algorithm for Extraction of Shortest Paths in Directed Multigraph**”, *Journal of Computer Science*, Vol. 9, No. 3, pp. 377-382, 2013. **ISSN: 1549-3636**. [Indexed: **SCOPUS**, Zeitschriften,WAD ,Ulrich, Thomson Gale ,Student Resource Center College ,Science Resource Center ,ProQuest, InfoTrac Custom, IET- ISI Thomson Scientific, IET,Genamics ,Expanded Academic ASAP ,EBSCO ,DOAJ ,Current Abstracts ,Cabell ,ASA]] (*Science Publication, USA*)**ImpactFactor-1.35** Available at <http://thescipub.com/jcs.toc>
21. **Bashir Alam**, “**Fuzzy Round Robin CPU Scheduling Algorithm** ”, *Journal of Computer Science*, Vol. 9, No. 8, pp. 1079-1085, 2013. **ISSN: 1549-3636**. [Indexed: **SCOPUS**,

- Zeitschriften,WAD ,Ulrich, Thomson Gale ,Student Resource Center College ,Science Resource Center ,ProQuest, InfoTrac Custom, IET- ISI Thomson Scientific, IET,Genamics ,Expanded Academic ASAP ,EBSCO ,DOAJ ,Current Abstracts ,Cabell ,ASA]] (**Under Review**) (*Science Publication, USA*)**ImpactFactor-1.35** Available at <http://thescipub.com/jcs.toc>
22. **Bashir Alam**,Siddhartha Sankar Biswas and M.N.Doja “**Fuzzy Shortest Path in Directed Multigraph**”, European Journal of Scientific Research”. 102(3), may 2013 pp 333-339, **ISSN: 1450-216X**, [Indexed:- **Scopus**, ProQuest ABI/INFORM Genamics, Elsevier Bibliographic Databases, EMBASE, Ulrich, DOAJ, EMNursing, Compendex, GEOBASE, Scopus and Mosby]. **ImpactFactor-.736**
 23. Siddhartha Sankar Biswas and **Bashir Alam**, M.N.Doja, “**Real time multigraph for communication Network:An Intuitionistic Fuzzy Mathematical Model**”, *Journal of Computer Science* Vol. 9, No. 7, pp. 847-855, 2013. **ISSN: 1549-3636**. [Indexed: **SCOPUS**, Zeitschriften,WAD ,Ulrich, Thomson Gale ,Student Resource Center College ,Science Resource Center ,ProQuest, InfoTrac Custom, IET- ISI Thomson Scientific, IET,Genamics ,Expanded Academic ASAP ,EBSCO ,DOAJ ,Current Abstracts ,Cabell ,ASA] (*Science Publication, USA*)**ImpactFactor-1.35** , Available at <http://thescipub.com/jcs.toc>
 24. Siddhartha Sankar Biswas, **Bashir Alam** and M.N.Doja “**A Theoretical Characterization of data structure Multigraph**”, *Journal of Contemporary Applied mathematics*, Vol. 2, No. 2, pp. 88-106, 2012. **ISSN: 2222-5498**. Available at <http://www.jcam.azvs.az>
 25. **Bashir Alam** , M.N.Doja and R. Biswas, “**Conceptual Improvement of Priority based CPU Scheduling Algorithm using Fuzzy Logic**” , *International journal of Fuzzy Systems and Rough Systems*, Vol. 1, No. 1, pp. 37-40, 2008. **ISSN: 0974-858X**. [Indexed: *Mathematical Reviews*,*MathSciNet*, *IndexCopernicus Zentralblatt fur Mathematik*, *EBSCOhost*, *SCOPUS*, *Elsevier's bibliographic database*, *Ei databases index*, *EMBASE*, *EMCare*, *CAP International*, and *Indian Sciences Abstract*].
 26. **Bashir Alam** ,M.N.Doja, and R. Biswas, “**A General Fuzzy CPU Scheduling Algorithm**” , *International journal of Fuzzy Systems and Rough Systems*, Vol. 1, No. 1, pp. 27-29, 2008. **ISSN: 0974-858X**. [Indexed: *Mathematical Reviews*, *MathSciNet*, *IndexCopernicus Zentralblatt fur Mathematik*, *EBSCOhost*, *SCOPUS*, *Elsevier's bibliographic database*, *Ei databases index*, *EMBASE*, *EMCare*, *CAP International*, and *Indian Sciences Abstract*].
 27. **Bashir Alam**, M.N.Doja and R. Biswas, “**Fuzzy HRRN CPU Scheduling Algorithm**”, *International journal of Computer Science and Information Security*, Vol. 9, No. 3, pp. 120-124, 2011. **ISSN: 1947--5500**. USA,[Indexed: Google Scholar, SCIRUS, Scientific Commons,DOAJ] Available at <http://sites.google.com/site/ijcsis/>
 28. **Bashir Alam**, M.N.Doja and R. Biswas, “**Fuzzy Priority CPU Scheduling Algorithm**”, *International journal of Computer Science Issues*, Vol. 8(6), No. 1, pp. 386-390, 2011. **ISSN: 1694-0814**. [Indexed: **-DBLP** , EBSCO Host, ProQuest ,Google Scholar,Bielefeld Academic Search Engine (BASE), CiteSeer, SCIRUS,Docstoc ,Scribd ,Cornell's University Library,SciRate ,Scientific Commons, Q.Sensei] Available at <http://ijcsi.org>
 29. Vivek Sharma and **Bashir Alam**, “Unicast Routing Protocol for Mobile Adhoc Network: A Survey”, *International journal of Computer Application* , USA,Vol. 54, No. 14, pp. 9-18, 2012. **ISSN: 0975-8887**. [Indexed: **DBLP**, EBSCO, Google Scholar, Pro quest, Ulrichsweb, ScientificCommons, NASA, Cornell University arXiv, Informatics, Worldcat], USA, Available at <http://www.ijcaonline.org>
 30. Musheer Ahmad, **Bashir Alam** and Omar Farooq, “Chaos based Mixed Key Stream Generation for Voice Data Encryption”, *International journal on Cryptography and Information Security*, Vol. 2, No. 1, pp. 386-390, 2012. **ISSN: 1839-8626**. [Indexed: Ulrichsweb, Google Scholar,Pro

- quest, EBSCO, getcited, Scribd, docstlc, pubget, Pub zone,] Available at <http://airccse.org/journal/ijcis>
31. Sweta Malhotra ,**Bashir Alam**, M.N.Doja and Mansaf Alam, “Security Issues Analysis in Cloud”, *International journal of Computer Science and Information Security*, Vol. 11, No. 9, pp. 117-125, 2011. ISSN: 1947--5500. USA,[Indexed: DBLP, Google Scholar, SCIRUS, Scientific Commons,DOAJ] Available at <http://sites.google.com/site/ijcis/>
 32. **Bashir Alam**, “Matrix Multiplication using r-Train Data Structure”, *ASRI Procedia*, Vol. 5 No.1, pp. 189-193, 2013. ISSN: 2212-6716. [Indexed: SCOPUS--EI Compendex - ISTP (*Elsevier Publication*)] Available at <http://www.sciencedirect.com>
 33. Siddhartha Sankar Biswas, **Bashir Alam** and M.N.Doja “Intuitionistic Fuzzy Real time Multigraphs for Communication Networks: A Theoretical Model”, *ASRI Procedia*, Vol. 5, No.1, pp. 114-119, 2013. ISSN: 2212-6716. [Indexed: SCOPUS--EI Compendex - ISTP] (*Elsevier Publication*) Available at <http://www.sciencedirect.com>
 34. Sweta , M.N.Doja, **Bashir Alam** and Mansaf Alam , “5-Layerded Architecture for Cloud DataBase Management System”, *ASRI Procedia*, Vol. 5, No. 1, pp. 194-199, 2013. ISSN: 2212-6716. [Indexed: SCOPUS—EI Compendex-ISTP] (*Elsevier Publication*) Available at <http://www.sciencedirect.com>
 35. M.N.Doja, **Bashir Alam** and Vivek Sharma “Analysis of Reactive Routing Protocol using Fuzzy Inference System”, *ASRI Procedia*, Vol. 5, No. 1, pp. 164-169, 2013. ISSN: 2212-6716. [Indexed: SCOPUS ,EI Compendex ,ISTP] (*Elsevier Publication*) Available at <http://www.sciencedirect.com>
 36. Mansaf Alam and **Bashir Alam**, “Cloud Query Language for Cloud Databases”, *International Journal of Advances in Computer Science and Its Applications (IJCSIA)*, Volume 3, Issue 2, pp. 154-158, 2013, ISSN:2250-3765 ,Australia.
 37. Siddhartha Sankar Biswas, **Bashir Alam** and M.N.Doja , An Algorithm for Extracting Intuitionistic FuzzyShortest Path in a Graph”, *Applied Computational Intelligence and Soft Computing* ,Volume 2013, Article ID 970197, ISSN: 1687-9724, pp. 1-5, Hindawi Publishing Corporation, USA.
 38. Siddhartha Sankar Biswas, **Bashir Alam** and M.N.Doja , “Refinement of Dijkstra’s Algorithm for Extraction of Shortest paths in GRT-Multigraphs”, *Journal of Computer Science* Vol. 10, No. 4, pp. 593-603, 2014. ISSN: 1549-3636. [Indexed: SCOPUS, Zeitschriften,WAD ,Ulrich, Thomson Gale ,Student Resource Center College ,Science Resource Center ,ProQuest, InfoTrac Custom, IET- ISI Thomson Scientific, IET,Genamics ,Expanded Academic ASAP ,EBSCO ,DOAJ ,Current Abstracts ,Cabell ,ASA] (*Science Publication, USA*)ImpactFactor-1.35 , Available at <http://thescipub.com/jcs.toc>
 39. Siddartha Sankar Biswas, **Bashir Alam** and M.N. Doja, “Generalized real time multigraphs for communication networks: An intuitionistic fuzzy theoretical model.”, Notes on Intuitionistic Fuzzy Sets (Prof. Lotfi Zade as Hon. Editor),Vol. 19, No. 3, ISSN: 1310-4926 pp. 90–98, 2013. UACEE, 2013, ISSN:2250-3765 ,Australia.

1. Wakar Ahmad , Bashir Alam and Sahil Malik Performance Analysis of List Scheduling Algorithms by Random Synthetic DAGs, 2 nd INTERNATIONAL CONFERENCE ON ADVANCED COMPUTING AND SOFTWARE ENGINEERING (ICACSE-2019), available at <https://dx.doi.org/10.2139/ssrn.3349016>
2. **Bashir Alam**, M.N.Doja and R. Biswas, “**Finding Time Quantum of Round Robin Scheduling Algorithm using Fuzzy Logic**”, *International Conference on Computer and Electrical Engineering (ICCEE 2008)*, pp. 795-798, 20 - 22, December 2008, Thailand , **ISBN:978-0-7695-3504-3**. (*IEEE Publication*) Available at <http://ieeexplore.ieee.org>, DOI: [10.1109/ICCEE.2008.89](https://doi.org/10.1109/ICCEE.2008.89)
3. **Bashir Alam**, M.N.Doja and R. Biswas " **Improving the Performance of fair Share Scheduling algorithm using Fuzzy Logic**", *International Conference on Advances in Computer ., communication and Controls (ICACCC-2009)*, pp. 567-570, January 23-24, 2009, Mumbai. **ISBN: 0978-1-60558-351-8**. (*ACM Publication*) Available at <http://acm.org>, DOI:[10.1145/1523103.1523216](https://doi.org/10.1145/1523103.1523216)
4. **Bashir Alam**, M.N.Doja and R. Biswas “**Dynamic Adjustment of Time Quantum of Round Robin CPU Scheduling Algorithm using FIS**”, *International conference on managing Next generation software Application (MNGSA2008)*, pp.611-614 ,5-6 December 2008,Koimbatore, **ISBN: 978-81-907870-0-0**
5. **Bashir Alam**, M.N.Doja and R. Biswas, “**Conceptual Improvement of HRRN Scheduling algorithm using Fuzzy Logic**”, *International Conference on Wireless Communication and Embedded system (WECON-2008)*, pp.648-650, *18th-19th October, 2008, Rajpur*,
6. **Bashir Alam**, “**Improving the performance of Multi level Round Robin Scheduling using fuzzy Logic**”, *International conference on leveraging information Technology for competitive Advantage,(ICIT-2013) 2013*, ,pp.294-297, Feb. 21-22, 2013,Delhi **ISBN: 978-162590597-0**
7. **Bashir Alam**, “**A Fuzzy Scheduling algorithm for load balancing in distributed Object computing system**”, *International conference on leveraging information Technology for competitive Advantage,(ICIT-2013) 2013*, ,pp.284-288, Feb. 21-22, 2013,Delhi, **ISBN: 978-162590597-0**
8. Mansaf Alam and **Bashir Alam**, “**Cloud Query Language for Cloud Database**”, *International Conference on Recent Trends In Computing and Communication Engineering (RTCCE -2013)*, pp. 108-112 Hamirpur, **ISBN: 978-981-07-6184-4** doi:10.3850/ 978-981-07-6184-4_24 , [Indexed in Elsevier, Thomson Reuters, Science Direct, etc.]
9. Siddartha Sankar Biswas, **Bashir Alam** and M.N. Doja, “**GRT-Multigraphs for Communication Networks: A Fuzzy Theoretical Model**”, *Advances in Computer Science and its Applications, Lecture Notes in Electrical Engineering, Springer*, vol. 279 , 2014, pp. 633-641, **ISBN: 978-3-642-41674-3**.
10. Siddartha Sankar Biswas, **Bashir Alam** and M.N. Doja, “ **A Slight Adjustment of Dijkstra’s Algorithm for Solving SPP in Real Time Environment**”, 2013 proceeding of ComNet, CIIT & ITC, pp. 256-259, **Elsevier**, **ISBN: 978-81-910691-6-3**
11. Arvind Kumar and **Bashir Alam** , “**Real Time Scheduling Algorithm for Fault Tolerant and Energy Minimization**”, proceeding of 2014 International Conference on Issues and Challenges in Intelligent Computing Techniques, (ICICT), pp. 356-360 , **ISBN: 978-1-4799-2900-9**, **IEEE Publication**
12. Musheer Ahmad, **Bashir Alam**, Arpit Jain, and Vipul Khare, “**A Novel Octuple Images Encryption Algorithm Using Chaos in Wavelet Domain**”, *Fourth International Conference on Networks & Communications (NETCOM-2012)*, *Computer Networks & Communications (NetCom)*, *Lecture Notes in Electrical Engineering*, Springer-Verlag, Vol. 131, pp. 509--518, 2013, Chennai. **ISSN 1876-1119**,

ISBN: 978-1-4614-6154-8_50. [Indexed: SCOPUS--ISI] (*Springer Publication*) Available at <http://www.springerlink.com>, DOI: 10.1007/978-1-4614-6154-8_50

13. Musheer Ahmad, **Bashir Alam**, and Omar Farooq, “Chaotic Masking of Voice Bitstream using Mixed Sequences for Authorized Listening”, *The Second International Conference on Computer Science and Information Technology (CCSIT-2012)*, *Advances in Computer Science and Information Technology: Computer Science and Engineering, Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, Vol. 85, Part I, pp. 604--611, 2-4 January 2012, Bangalore. ISSN: 1867-8211. ISBN: 978-3-642-27308-7. [Indexed: DBLP] (*Springer Publication*) Available at <http://www.springerlink.com>, DOI: 10.1007/978-3-642-27308-7_64
14. Arvind Kumar, **Bashir Alam**, “Real Time Scheduling Algorithm for Fault Tolerant and Energy Minimization” *IEEE International Conference on Issues and Challenges in Intelligent Computing Techniques(ICICT) 2014*, pp 356-360 , IEEE press,2014, available at IEEE Explore
15. **Bashir Alam**, Arvind Kumar, “Real Time Scheduling Algorithm for Tolerating Single Transient Fault” *IEEE International Conference on Information Systems & Computer Networks*, pp 356-360 , IEEE press,2014, available at IEEE Explore
16. Musheer Ahmad, **Bashir Alam**, A Novel Biometric Fingerprint Template Based Method for Stream Cipher Design *The Second International Conference , INDIA-2015, Advances in Intelligent Systems and Computing series vol 340, Information System Design and Intelligent Applications*, Vol. 2, pp. 419--427, 8-9 January 2015, Bangalore. ISSN:978-81-322-2246-0 [Indexed: DBLP, SCOPUS] (*Springer Publication*) Available at <http://www.springerlink.com>, DOI: 10.1007/978-81-322-2247-7
17. **Bashir Alam**, Arvind Kumar, “An efficient check pointing approach for fault tolerance in time critical systems with energy minimization”, *International conference on computing, Communication & Automation(ICCCA)*,15-16 May 2015, pp 704-707 , ISBN: 978-1-4799-8889-1, IEEE Explore.
18. **Bashir Alam**, Arvind Kumar, Energy Efficient Self Organising Load Balanced Protocol clustering scheme for Heterogeneous Wireless Sensor Network, pp. 1-6, *UPCON-ICEEE, 2015 IEEE International Conference*, 26-28 March 2015, 978-1-4673-7491-0 ,IEEE.
19. **Bashir Alam**, Arvind Kumar, Improved EDF Algorithm for Fault Tolerance with Energy Minimization, pp. 370-374, *Computational Intelligence & Communication Technology*,13-14 Feb. 2015, ISBN: 978-1-4799-6023-1,IEEE.
20. Pawan Singh Mehra, M.N.Doja, **Bashir Alam** Low Energy Adaptive Stable Energy Efficient (LEASE) Protocol for Wireless Sensor Network ,pp. 484-488 , *ABLAZE* ,25-27 Feb. 2015 , 978-1-4799-8432-9 ,IEEE.
21. **Bashir Alam**, Arvind Kumar, “Real Time Fault Tolerance Task Scheduling Algorithm with Minimum Energy Consumption”, pp. 441-448 , *AISC*, VOL. 380,24 July 2015, [Indexed: DBLP, SCOPUS] (*Springer Publication*) Available at <http://www.springerlink.com>.
22. Pawan Singh Mehra, M.N.Doja, **Bashir Alam**, “Enhanced Stable Period for Two Level and Multilevel Heterogeneous Model for Distant Base Station in Wireless Sensor Network”, pp. 751-759 , *AISC*, vol. 379 ,24 July 2015, [Indexed: DBLP, SCOPUS] (*Springer Publication*) Available at <http://www.springerlink.com>.
23. Vivek Sharma, **Bashir Alam**, M.N.Doja, “Fuzzy-based M-AODV Routing Protocol in MANETs”, pp.773-779, *AISC* vol.380 ,24 July 2015, [Indexed: DBLP, SCOPUS] (*Springer Publication*) Available at <http://www.springerlink.com>.
24. Siddartha Sankar Biswas, **Bashir Alam** and M.N. Doja, ”Real Time Graphs for Communication Networks: A Fuzzy Mathematical Model”, pp.463-470 , *AISC*, VOL. 379 ,24 July 2015 , [Indexed: DBLP, SCOPUS] (*Springer Publication*) Available at <http://www.springerlink.com>.
25. Umar Ahmad, Vipul Nayyar, **Bashir Alam**, “Storage Optimization of Cloud Using Disjunctive Property of pi”, pp.649-657, *AISC* vol.380 , 24 July 2015, [Indexed: DBLP, SCOPUS] (*Springer Publication*) Available at <http://www.springerlink.com>.

Short Term Courses

-
- FDP on “Towards 5G: The Key Enabling Technologies”, 5-14 December, 2016, NIT Patna, India
- Short term Course On High Performance Parallel and Enterprise Computing , April 12 – 18 2010, I.I.T. Kharagpur, India.
- Short term Course On Embedded System and Real Time System , Sept 12 – 18 2012, I.I.T. Kharagpur, India.
- Refresher Course in Computer Science of three week from UGC Academic Staff College A.M.U. Aligarh in 2007.
- Orientation Programme from UGC Academic Staff College, Jamia Millia Islamia, New Delhi-110025 in 2008

Member of Professional Bodies

Life Member, ISTE(Indian Society for Technical Education)

Certification

- got CCNA certification
- got CCAI certification

National Examinations

- Passed GATE(Computer Science and Engineering)2000 conducted by IIT
- Passed CST 2000 conducted by NCST, Mumbai

Administrative Responsibilities

ADMINISTRATIVE RESPONSIBILITIES

- Coordinator, B.E.(Computer Engineering), Jamia Millia Islamia, New Delhi, July 2018 to till date
- Convener, Departmental Research Committee , Department of Computer Engineering , JMI from July 2017
- Member, Faculty Committee, Faculty of Engineering and Technology, JMI for two terms
- Asstt. Superintendent for B.E. Annual Examination for 2017-18, 2018-19
- Tabulator, B.Tech.(Computer Engineering) for Odd and even semester for session 2012-13,2013-14,2014-15
- Advisor, Subject Association, Department of Computer Engineering, JMI from 2013 till date
- Subject Advisor to Uttar Pradesh Public Service Commission and Uttarakhand Public service Commission,
- Member, PRSG, Meity, GOI, for joint project of AIIMS new Delhi and C-DAC, Pune of amount RS.2,91,67,160
- Member, Board of Studies, Department of Computer Engineering , Jamia Millia Islamia, New Delhi
- Member, Faculty Committee, F/o Engg. & Technology

- Tabulator, B.Tech.(Computer Engg./civil)
- Member , Board of Studies, Department of Computer Science , Jamia Hamdard, New Delhi from 2004 to 2006
- Member, Academic Council, jamia Hamdard, New Delhi from 2003 to 2005
- Member, University Admission Committee, jamia Hamdard, New Delhi from 2005to 2006
- Member, Committee to examine man power deployment in all the departments/ sections , jamia Hamdard, New Delhi from 2005to 2006
- Member, Committee to inspect new study centres for BCA/BBA course of Directorate of Distance learning , jamia Hamdard, New Delhi from 2005to 2006
- Member , Committee constituted to look into the incident of security breach in Academy Resource management System (Finance wing), jamia Hamdard, New Delhi in 2006
- Member , Committee constituted for making software for Directorate of Distance learning, jamia Hamdard, New Delhi 2004 to 2006
- Member , Committee constituted for conducting written test for the post of Lecturer in Computer Science and management studies , Directorate of Distance learning, jamia Hamdard, New Delhi in 2005
- Chief Tabulator, jamia Hamdard, New Delhi from 2004 to 2006
- Founder Secretary, Computer Science activities Network, Department of Computer Science, jamia Hamdard, New Delhi 2003 to 2006
- In Charge, Examination Software, jamia Hamdard, New Delhi 2004 to 2006
- Coordinator, Implementation of Credit based System in university, jamia Hamdard, New Delhi from 2004 to 2006
- Coordinator, Semester Examination , department of Computer science, jamia Hamdard, New Delhi from 2004 to 2006
- Coordinator, Admissions in the Department of computer Science ,jamia Hamdard, New Delhi from 2004 to 2006
- Counselor of various courses of Department of computer Science, jamia Hamdard, New Delhi from 2002to 2006
- Question paper setter/Examiner of various courses of several Universities
- Invigilator for semester, annual and minor examinations

Extra Curricular Activities

- Member, Organizing team of Algorhythm 2007 and Algorhythm 2008 of department of Computer Engineering, Jamia Millia Islamia, New Delhi.
- Member, Organizing team of NERDZ 2003 and NERDZ 2004 of department of Computer Science Jamia Hamdard , New Delhi.
- Technical Coordinator , NERDZ 2004 of department of Computer Science , Jamia Hamdard , New Delhi.
- Coordinator, NERDZ 2005 of Department of Computer Science , Jamia Hamdard , New Delhi.
- Teacher in Charge for several events during Sports and Cultural week in 2002, 2003, 2004, 2005, Jamia Hamdard, New Delhi.
- Coach, Jamia Hamdard team for the 2003 ACM Asia ICPC(International Collegiate Programming Contest) at IIT Roorkee (10th Place)

- Coach, Jamia Millia Islamia team for the 2014 ACM Asia ICPC(International Collegiate Programming Contest) at IIIT Gwalior (honorable mention)
- Mentor, Jamia team for ISC student Cluster Competition 2015 held in Germany.