



Department of Computer Science and Engineering  
Khulna University of Engineering & Technology  
Khulna - 9203, Tel: 041-769471 (191); Fax : 041-774403



## Biography

Welcome to my website. I am Dr. Kazi Md. Rokibul Alam, Professor, Dept. of Computer Science and Engineering, Khulna University of Engineering & Technology (KUET), Khulna -9203, Bangladesh. My contact details is given below: Phone: +88041-769471-365 Cell: +88 01714-087-216, Fax: +88041-774318, Mail: rokib@cse.kuet.ac.bd, rokibcse@yahoo.com Website : [www.kuet.ac.bd/cse/rokib/](http://www.kuet.ac.bd/cse/rokib/)

### Dr. Kazi Md. Rokibul Alam

Professor

**Research Area** Machine Learning and Applications Privacy Preserving Information Retrieval Applied Cryptography (Image Encryption, DNA Cryptography, Quantum Cryptography, etc.) Information Security Protocols (E-Voting, E-Payment, E-Auction, Mixnets, etc.)

## Education

### Doctor of Engineering

University of Fukui, Japan (October, 2007-2010)

**Thesis Title:** [A Scheme for Electronic Voting Systems](#)

### Master of Science in Computer Science and Engineering

Bangladesh University of Engineering & Technology (BUET), Bangladesh (October, 2001-2004)

**Thesis Title:** [An Algorithm to Design Neural Network Ensemble](#)

### Bachelor of Science in Computer Science and Engineering

Khulna University, Bangladesh (June, 1995-1999)

## Service Records

- **Researcher**

**Department/Section:** Graduate School of Information Engineering

**Hiroshima University, Japan** From 01-01-1970 to 01-01-1970

Working Area: Informatics and Data Science

Responsibility: Research Work

- **Professor**

**Department/Section:** Dept. of Computer Science and Engineering (CSE)

**Khulna University of Engineering & Technology (KUET)** From 01-01-1970 to 01-01-1970

Responsibility: Teaching, Research Work and Examiner in Postgraduate and Undergraduate Courses/Research.

- **Associate Professor**

**Department/Section:** Dept. of Computer Science and Engineering (CSE)

**Khulna University of Engineering & Technology (KUET)** From 01-01-1970 to 01-01-1970

Responsibility: Teaching, Research Work and Examiner in Postgraduate and Undergraduate Courses/Research.

- **Assistant Professor**

**Department/Section:** Dept. of Computer Science and Engineering (CSE)

**Khulna University of Engineering & Technology (KUET)** From 01-01-1970 to 01-01-1970

- **Lecturer**

**Department/Section:** Dept. of Computer Science and Engineering (CSE)

**Khulna University of Engineering & Technology (KUET)** From 01-01-1970 to 01-01-1970

Responsibility: Teaching and Examiner in Undergraduate Courses

- **Lecturer**

**Department/Section:** Department of Computer Science

**Model Institute of Science & Technology** From 01-01-1970 to 01-01-1970

Responsibility: Teaching and Examiner in Undergraduate Courses

## Research Interest

Machine Learning and Applications

Privacy Preserving Information Retrieval

Applied Cryptography (Image Encryption, DNA Cryptography, Quantum Cryptography, etc.)

Information Security Protocols (E-Voting, E-Payment, E-Auction, Mixnets, etc.)

## Publication

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## Books

## Journals

26. M. S. R. Tanveer, K. M. R. Alam and a. Y. Morimoto, "A Multi-Stage Chaotic Encryption Technique for Medical Image," **Information Security Journal: A Global Perspective**, Taylor & Francis, vol. 31, no.6, pp.657-675, 2022 .
25. M. A. A. R. Kutubi, K. M. R. Alam and a. Y. Morimoto, "A Simplified Scheme for Secure Offline Electronic Payment Systems," **High-Confidence Computing - Journal**, Elsevier, vol. 1, no.2, pp.100031, December, 2021 .
24. M. Qaosar, K. M. R. Alam, A. Zaman, C. Li, S. AhmedM. A. Siddiqueand Morimoto, "A Framework for Privacy-Preserving Multi-party Skyline Query Based on Homomorphic Encryption," **IEEE ACCESS**, IEEE, vol. 7, no.1, pp.167481-, December, 2019 .
23. M. R. Biswas, K. M. R. Alam, S. Tamuraand a. Y. Morimoto, "A Technique for DNA Cryptography Based on Dynamic Mechanisms," **Journal of Information Security and Applications (JISA)**, Elsevier, vol. 2019, no.48, pp.p 102363, October, 2019 .
22. K. M. R. Alam, N. H. Siddique and a. H. Adeli, "A Dynamic Ensemble Learning Algorithm for Neural Networks," **Neural Computing and Applications (NCAA)**, Springer, vol. 32, no.12, pp.8675-8690, 2020 .
21. S. Ahmed, M. Qaosar, A. Zaman, M. A. Siddique, C. LiK. M. R. Alamand Morimoto, "Privacy-Aware MapReduce Based Multi-Party Secure Skyline Computation," **information**, MDPI, vol. 10, no.6, pp.207, 2019 .
20. S. Ahmed, A. Annisa, A. Zaman, Z. Zhang, K. M. R. Alamand a. Y. Morimoto, "Semi-Order Preserving Encryption Technique for Numeric Database," **International Journal of Networking and Computing (IJNC)**, vol. 9, no.1, pp.111-129, 2019 .
19. K. M. R. Alam, S. Tamura and S. M. S. R. a. Y. Morimoto, "An Electronic Voting Scheme Based on Revised SVRM and Confirmation Numbers," **IEEE Transactions on Dependable and Secure Computing (TDSC)**, IEEE Computer Society, vol. 18, no.1, pp.400-410, Jan-Feb, 2021 .
18. A. Mondal, K. M. R. Alam, G. G. M. N. Ali, P. H. J. C. a. Y. Morimotoand , "A Multi-Stage Encryption Technique to Enhance the Secrecy of Image," **Transactions on Internet and Information Systems**, KSII, vol. 13, no.5, pp.2698-2717, 2019 .
17. K. M. R. Alam, A. Maruf, M. R. R. Rakib, G. G. M. N. Ali, P. H. J. Chongand a. Y. Morimoto, "An Untraceable Voting Scheme Based on Pairs of Signatures," **International Journal of Network Security**, Jalaxy Technology Co., LTD, vol. 20, no.4, pp.774-787, 2018. .
16. K. D. Gupta, M. M. Ahsan and S. A. a. K. M. R. Alam, "A Robust Approach of Facial Orientation Recognition from Facial Features," **BRAIN: Broad Research in Artificial Intelligence and Neuroscience Journal**, vol. 8, no.3, pp.5-12, September, 2017 .
15. M. A. A. R. Kutubi, K. M. R. Alam, R. Tahsin, G. G. M. N. Ali, P. H. J. Chongand Y. Morimoto, "An Offline Electronic Payment System Based on an Untraceable Blind Signature Scheme," **Transactions on Internet and Information Systems**, KSII, vol. 11, no.5, pp.2628-2645, 2017 .
14. K. M. R. Alam and B. C. K. a. M. K. Siddique, "An Optimized Approach for Face Recognition with Fast Discrete Cosine Transform and Robust RBF Neural Networks," **International Journal of Research and Reviews in Applicable Mathematics & Computer Science**, vol. 1, no.4, 2011 .
13. M. Rabbani, K. M. R. Alam and M. I. a. Y. Morimoto, "PVBMT: A Principal Verb Based Approach for English to Bangla Machine Translation," **International Journal of Computer Vision and Signal Processing (IJCVSP)**, Cennser, vol. 6, no.1, 2016 .
12. N. Islam, K. M. R. Alam and a. S. S. Rahman, "Commutative Re-encryption Techniques: Significance and Analysis," **Information Security Journal: A Global Perspective**, Taylor & Francis, vol. 24, no.4-6, pp.185- 193, 2105. .
11. S. Tamura, H. A. Haddad, N. Islamand a. K. M. R. Alam, "An Incoercible E-Voting Scheme Based on Revised Simplified Verifiable Re-encryption Mix-nets," **Information Security and Computer Fraud**, Science and Education Publishing, vol. 3, no.2, pp.32-38, 2105. .
10. B. C. Karmokar, M. S. Ullah, M. K. Siddiqueand a. K. M. R. Alam, "Tea Leaf Diseases Recognition using Neural Network Ensemble," **International Journal of Computer Applications (IJCA)**, Foundation of Computer Science, vol. 114, no.17, pp.27-30, March 2015 .
9. M. A. Moyeen, K. M. R. Alam and a. M. A. Awal, "Bangla Text Extraction from Natural Scene Images for Mobile Applications," **Journal of Electrical Engineering**, The Institution of Engineers, Bangladesh, vol. 39, no.2013, pp.36-43, 2013 .
8. N. Islam, K. M. R. Alam and A. Rehman, "The Effectiveness of Mixnets - An Empirical Study," **Computer Fraud and Security**, Elsevier, vol. 2013, no.12, pp.9-14, 2013 .
7. M. T. I. Siyam and K. M. R. A. a. T. A. Jami, "An Exploitation of Visual Cryptography to Ensure Enhanced Security in Several Applications," **International Journal of Computer Applications (IJCA)**, Foundation of Computer Science, vol. 65, no.6, pp.42-46, March 2013 .
6. K. M. R. Alam and S. M. a. M. N. A. Khan, "An Exploitation of Blind Signature Schemes to Simulate Privacy-related Applications," **International Journal of Computer Applications (IJCA)**, Foundation of Computer Science, vol. 66, no.3, pp.23-27, March 2013 .
5. S. Tamura, K. Kouro, M. Sasataniand K. M. R. A. a. H. A. Haddad, "An Information System Platform for Anonymous Product Recyclin," **Journal of Software**, vol. 3, no.6, pp.46-56, June 2008 .
4. K. M. R. Alam, S. Tamura and S. T. a. T. Yanase, "An Anonymous Voting Scheme based on Confirmation Numbers," **IEEJ Transactions EIS**, vol. 130, no.11, pp.2065-2073, Nov. 2010 .
3. K. M. R. Alam and B. C. K. a. M. K. Siddique, "A Comparison of Constructive and Pruning Algorithms to Design Neural Networks," **Indian Journal of Computer Science and Engineering (IJCSE)**, vol. 2, no.3, pp.486â"491, Jun-July, 2011 .
1. B. C. Karmokar and K. M. R. A. a. M. K. Siddique, "Bangladeshi Sign Language Recognition employing Neural Network Ensemble," **International Journal of Computer Applications**, vol. 58, no.16, pp.43â"46, Nov. 2012 .

## Conference

44. M. M. H. Manik, K. M. R. Alam, a. Y. Morimotoand , "A Blockchain Based Secure Framework for User-centric Multi-party Skyline Queries," **2022 25th International Conference on Computer and Information Technology (ICCIT 2022)**, IEEE Xplorer, December, 2022 , pp.90-95.
43. M. A. Habib, K. M. R. Alam and a. Y. Morimoto, "A Secure Medical Record Sharing Scheme Based on Blockchain and Two-fold Encryption," **2022 25th International Conference on Computer and Information Technology (ICCIT 2022)**, IEEE Xplorer, December, 2022 , pp.78-83.
42. N. Iwata, S. Kamei, K. M. R. Alamand a. Y. Morimoto, "Location Data Anonymization Retaining Data Mining Utilization," **in the 18th International Conference on Advanced Data Mining and Applications (ADMA 2022)**, Springer LNAI, Nov, 2022 .
41. M. A. Rahman, K. M. R. Alam and a. M. S. Sadi, "A Smartphone Based Real-time Object Recognition System for Visually Impaired People," **International Conference on Machine Intelligence and Emerging Technologies (MIET 2022)**, LNICST, Springer, Sep, 2022 .
40. N. J. K. Chowdhury, K. M. R. Alam and a. M. Islam, "Security and Privacy in IoT using Blockchain and Lightweight Cryptographic Protocol," **IEEE 2022 7th International Conference for Convergence in Technology (I2CT)**, IEEE Xplorer, April, 2022 , pp.1-5.
39. N. J. K. Chowdhury, S. Tamura and a. K. M. R. Alam, "Preliminary Conceptions of a Remote Incoercible E-voting Scheme," **3rd International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND-2021) in**, LNEE, Vol. 946,

December, 2021 , pp.781-794.

38. D. Das, K. M. R. Alam and Y. Morimoto, "A Framework for Multi-party Skyline Query Maintaining Privacy and Data Integrity," **2021 24th International Conference on Computer and Information Technology (ICCIT 2021)**, IEEE Xplorer, December, 2021 .
37. M. S. N. Shovo, K. M. R. Alam and D. H. a. Y. Morimoto, "A Sorting and Searching Scheme for Relational Database Using Searchable Encryption," **2021 5th International Conference on Electrical Information and Communication Technology (EICT 2021)**, IEEE Xplorer, December, 2021 .
36. A. Das, S. K. Das and D. D. a. K. M. R. Alam, "A Comparative Study to Predict Diabetes Using Machine Learning Techniques," (**accepted**) **The International Conference on Science and Contemporary Technologies (ICSCT) 2021**, 5-7 August 2021 .
35. M. S. R. Tanveer, K. M. R. Alam and M. A. A. a. Y. Morimoto, "A Technique to Reconstruct Wavelet-Based Watermark Immune Against Salt & Pepper Noise," **2019 4th International Conference on Electrical Information and Communication Technology (EICT-2019)**, IEEE Xplorer, 20-22, December, 2019 , pp.1-5.
34. M. Qaosar, K. M. R. Alam, C. Liand a. Y. Morimoto, "Privacy-preserving Top-k Dominating Queries in Distributed Multi-party Databases," **2019 IEEE International Conference on Big Data (Big Data)**, 9-12 December, 2019 , pp.5794-5803.
33. C. Li, X. Zhang, M. Qaosar, S. Ahmed, K. M. R. Alamand a. Y. Morimoto, "Multi-factor Based Stock Price Prediction Using Hybrid Neural Networks with Attention Mechanism," **The 5th IEEE International Conference on Cloud and Big Data Computing (CBDCom 2019)**, August 5-8, 2019. , pp.961-966.
32. N. I. Haque, K. M. R. Alam and T. M. a. Y. Morimoto, "A Technique to Enrich the Secrecy Level of High Capacity Data Hiding Steganography Technique in JPEG Compressed Image," **5th International Conference on Networking, Systems and Security (5th NSysS 2018)**, 18-20 December, 2018 .
31. S. A. Shahriyar, K. M. R. Alam and S. S. R. a. Y. Morimoto, "An Approach for Multi Label Image Classification Using Single Label Convolutional Neural Network," **21st International Conference on Computer and Information Technology (ICCIT 2018)**, 21-23 December, 2018 .
30. A. Z. M. N. Abir, K. M. R. Alam and N. H. K. a. Y. Morimoto, "An Overview of Apache Spark for Structured Big Data and Simulation of Enhancing Security Using Asymmetric Cryptosystems," **2018 International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering (IC4ME2-2018)**, February 8-9, 2018 .
29. M. R. Biswas, K. M. R. Alam and A. A. a. Y. Morimoto, "A DNA Cryptographic Technique Based on Dynamic DNA Encoding and Asymmetric Cryptosystem," **2017 4th International Conference on Networking, Systems and Security (4th NSysS 2017)**, December, 2017 .
28. M. Armanuzzaman, K. M. R. Alam and M. M. H. a. Y. Morimoto, "A Secure and Efficient Data Transmission Technique Using Quantum Key Distribution," **2017 4th International Conference on Networking, Systems and Security (4th NSysS 2017)**, December, 2017 .
27. S. S. Roy, S. A. Shahriyar, M. A. Golapand K. M. R. A. a. Y. Morimoto, "A Novel Encryption Model for Text Messages using Delayed Chaotic Neural Network and DNA Cryptography," **20th International Conference on Computer and Information Technology (ICCIT 2017)**, , December, 2017 .
26. S. Ahmed, A. Annisa, A. Zaman, Z. Zhangand K. M. R. A. a. Y. Morimoto, "Semi-Order Preserving Encryption Technique for Numeric Data to Enhance Privacy," **The Fifth International Symposium on Computing and Networking (CANDARâ€™ 17)**, November 19-22, 2017 .
25. N. Islam, K. M. R. Alam and S. T. a. Y. Morimoto, "A New E-Voting Scheme Based on Revised Simplified Verifiable Re-encryption Mixnet," **2017 International Conference on Networking, Systems and Security (NSysS 2017)**, January, 2017 .
24. E. M. S. Hossain, K. M. R. Alam and M. R. B. a. Y. Morimoto, "A DNA Cryptographic Technique Based on Dynamic DNA Sequence Table," **19th International Conference on Computer and Information Technology (ICCIT 2016)**, December, 2016 .
23. N. Islam, K. M. R. Alam and a. Y. Morimoto, "An Improved Universal Re-encryption Based on Okamoto-Uchiyama Cryptosystem," **in 3rd International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT)**, September, 2016 .
22. K. Alam, K. M. R. Alam and M. O. F. a. Y. Morimoto, "A Comparison between RSA and ElGamal based Untraceable Blind Signature Schemes," **2nd International Conference on Networking Systems and Security (NSysS)**, January, 2016 .
21. M. Rabbani, K. M. R. Alam and M. I. a. Y. Morimoto, "A New Stroke Matching based Approach to Recognize Bangla Handwritten Text," **The 18th International Conference on Computer and Information Technology (ICCIT 2015)**, December, 2015 .
20. S. Ahmad, K. M. R. Alam, H. Rahmanand S. Tamura, "A Comparison between Symmetric and Asymmetric Key Encryption Algorithm based Decryption Mixnets," **1st International Conference on Networking Systems and Security (NSysS)**, IEEE Xplorer, January, 2015 , pp.194-198.
19. M. Rabbani and K. M. R. A. a. M. Islam, "A New Verb based Approach for English to Bangla Machine Translation," **Proceedings of International Conference on Informatics, Electronics & Vision (ICIEV14)**, May 2014 .
18. M. K. Sarkar and K. M. R. A. a. M. Arifuzzaman, "Emotion Recognition from Speech based on Relevant Feature and Majority Voting," **Proceedings of International Conference on Informatics, Electronics & Vision (ICIEV14)**, May 2014 .