Curriculum Vitae

1. Name **:** Dr. Md. Mokammel Haque

2. Current position & Affiliation **:** Professor, Dept. of CSE, CUET

3. Date of Birth **:** 11th June 1981

4. Nationality **:** Bangladeshi

5. Email Address **:** mokammel@cuet.ac.bd

5. Permanent Address **:** C-111, 3rd Colony, Lalkuthi, Mirpur-1, Dhaka-1216

6. Present Address **:** Department of CSE, CUET, Chittagong-4349

7. Contact No. **:** +880-01727210737

9. Educational Qualifications **:**

Name of Certificate/ Degree	Board/University	Year of Exam.	Year of Publication of Result	Division/ Class/ CGPA out of	Marks(%)/ Converted marks (%) against CGPA
Ph.D	Macquarie University, Australia	2014	2014	Awarded	--
M.Sc. Engg.	Kyung Hee University, South Korea	2008	2008	4.14/4.30	95.8%
B.Sc. Engg.	CUET, Chittagong	2004	2004	3.55/4.00	--
H.S.C.	Dhaka Board	1998	1998	1st division	82.1%
S.S.C.	Rajshahi Board	1996	1996	1st division	88.6%

10. Working Experience:

Name of Organization	Name of Post	Experience	
		From	To
CUET, Chittagong	Lecturer	12/07/2005	10/10/2009
CUET, Chittagong	Assistant Professor	11/10/2009	14/06/2017
CUET, Chittagong	Associate Professor	15/06/2017	10/01/2019
CUET, Chittagong	Professor	25/06/2019	till to date

11. Publications:

11.1. International Journal

SL. No.	Title of the Paper	Name of the Journal with Vol. No. pp	Year and Country of Publication	Name of Author(s)
01	A Semi-Supervised Machine Learning Approach using K-Means Algorithm to Prevent BHP Flooding Attack in OBS Network	Baghdad Science Journal (Baghdad Sci. J.), Vol.16, No.3, pp.804-815, University of Baghdad	2019, Iraq	Muhammad Kamrul Hossain Patwary and **Md. Mokammel Haque**
02	Elliptic Curve and Pseudo-inverse Matrix Based Cryptosystem for Wireless Sensor Networks.	International Journal of Electrical and Computer Engineering (IJECE), Vol. 9, No. 5, pp. 4479-4492, IAES	2019, Indonesia	Shomen Deb and **Md. Mokammel Haque**
03	Preprocessing optimisation: revisiting recursive-BKZ lattice reduction algorithm	IET Information Security, Vol.12, No.6, pp.551-557 (SCIE indexed, impact factor: 1.013), IET	2018, United Kingdom	**Md. Mokammel Haque** and Josef Pieprzyk
04	Sensor Applications and Physiological Features in Drivers' Drowsiness Detection: A Review	IEEE Sensors Journal, Vol.18, No.8, pp. 3055-3067 (SCI indexed, impact factor: 2.617), IEEE	2018, United States	Anuva Chowdhury, Rajan Shankaran, Manolya Kavakli, and **Md. Mokammel Haque**
05	Analysing Progressive-BKZ Lattice Reduction Algorithm	International Journal of Computer Network and Information Security (IJCNIS), Vol. 11, No. 1, pp. 9-16, MECS press	2018, Hong Kong	**Md. Mokammel Haque**, Mohammad Obaidur Rahman
06	Authentication of Diffie-Hellman Protocol Against Man-in-the-Middle Attack Using Cryptographically Secure CRC	Advances in Intelligent Systems and Computing (AISC), Vol. 811, pp.139-150, Springer	2018, Singapore	Nazmun Naher, Asaduzzaman and **Md. Mokammel Haque**
07	An Improved Fitness Function for Automated Cryptanalysis using Genetic Algorithm	Indonesian Journal of Electrical Engineering and Computer Science (IJEECS), Vol. 13, No. 2, pp.643-648, IAES	2018, Indonesia	Md. Shafiul Alam Forhad, Md. Sabir Hossain, Mohammad Obaidur Rahman, Md. Mostafizur Rahaman, **Md. Mokammel Haque**, Muhammad Kamrul Hossain Patwary
08	Analysing Recursive Preprocessing of BKZ Lattice Reduction Algorithm	IET Information Security, Vol. 11, No. 2, pp.114-120 (SCIE indexed, impact factor: 1.013), IET	2017, United Kingdom	**Md. Mokammel Haque** and Josef Pieprzyk

| 09 | An Asymmetric Key-Based Security Architecture for Wireless Sensor Networks | KSII Transactions on Internet and Information Systems (TIIS), Vol.2, No.5, pp.265-279, (SCIE indexed, impact factor: 0.365), KSII | 2008, South Korea | **Md. Mokammel Haque**, Al-Sakib Khan Pathan, Choong Seon Hong and Eui-Nam Huh |
| 10 | Security Management in Wireless Sensor Networks with a Public Key Based Scheme | Lecture Notes in Computer Science (LNCS), Vol. 4773, pp. 503–506,Springer | 2007, Heidelberg, Germany | Al-Sakib Khan Pathan, Jae Hyun Ryu, **Md. Mokammel Haque** and Choong Seon Hong |

11.2. National Journal:

SL. No.	Title of the Paper	Name of the Journal with Vol. No. pp	Year and Country of Publication	Name of Author(s)
01	Predicting Tours of BKZ Lattice Reduction Algorithm	Computer Science and Engineering Research Journal (CSERJ) Vol. 10, pp.9-15, ISSN: 1990-4010	2014, Bangladesh	**Md. Mokammel Haque**, Josef Pieprzyk, Anuva Chowdhury, and Asaduzzaman
02	Secure inNetwork Data Aggregation Mechanism for Wireless Sensor Networks	Computer Science and Engineering Research Journal (CSERJ) Vol. 04, pp.8-13, ISSN: 1990-4010	2006, Bangladesh	**Md. Mokammel Haque**, Choong Seon Hong and Md. Tazul Islam

11.3. International Conference/Seminar/Workshop:

SL. No.	Title of the Paper	Name of the Conference with Vol. No. pp	Year and Country of Publication	Name of Author(s)
01	Solving Multiple Depot Vehicle Routing Problem (MDVRP) using Genetic Algorithm	2nd International Conference on Electrical, Computer and Communication Engineering (ECCE), IEEE	February 2019, Cox's Bazar, Bangladesh	Nafiz Mahmud and **Md. Mokammel Haque**
02	An Efficient Algorithm for Confidentiality, Integrity and Authentication Using Hybrid Cryptography and Steganography	2nd International Conference on Electrical, Computer and Communication Engineering (ECCE), IEEE	February 2019, Cox's Bazar, Bangladesh	Chitra Biswas, Udayan Das Gupta and **Md. Mokammel Haque**
03	An Improved Asymmetric Key Based Security Architecture for WSN	Int'l Conference on Computer, Communication, Chemical, Material and Electronic Engineering (IC4ME2)	February 2018, Rajshahi, Bangladesh	Md. Abdul Quaum, Shajir Uddin Haider and **Md. Mokammel Haque**

04	Reducing Network Overhead of IoT DTLS Protocol Employing ChaCha20 and Poly1305	20th International Conference on Computer and Information Technology (ICCIT), DOI:10.1109/ICCITECHN.2017.8281857, IEEE	December 2017, Dhaka, Bangladesh	Maliha Momtaz Islam, Sourav Paul and **Md. Mokammel Haque**
05	An Improved Steganographic Technique Based on Diamond Encoding Method	International Conference on Electrical, Computer and Communication Engineering (ECCE), pp.583-588, IEEE	February 2017, Cox's Bazar, Bangladesh	**Md. Mokammel Haque**, Jobayer Sheikh and Md. Jihan Al Rashid
06	A Hierarchical Key Derivative Symmetric Key Algorithm using Digital Logic	International Conference on Electrical, Computer and Communication Engineering (ECCE), pp.604-609, IEEE	February 2017, Cox's Bazar, Bangladesh	Chitra Biswas, Udayan Das Gupta and **Md. Mokammel Haque**
07	Optimizing Preprocessing Method of Recursive-BKZ Lattice Reduction Algorithm	2nd International Conference on Electrical Information and Communication Technology (EICT), pp.19-23, IEEE	December 2015, Khulna, Bangladesh	**Md. Mokammel Haque** and Josef Pieprzyk
08	An Efficient Security Architecture for Wireless Sensor Networks using Pseudo-inverse Matrix	18th International Conference on Computer and Information Technology (ICCIT), pp.396-400, IEEE	December 2015, Dhaka, Bangladesh	Anuva Chowdhury, Farzana Alam Tanzila, Shanta Chowdhury and **Md. Mokammel Haque**
09	A Secret Key-based Security Architecture for Wireless Sensor Networks	1st Int'l Conference on Computer and Information Engineering (ICCIE), pp.79-82, IEEE	November 2015, Rajshahi, Bangladesh	Anuva Chowdhury, Farzana Alam Tanzila, Shanta Chowdhury and **Md. Mokammel Haque**
10	A Scalable Framework of Course Scheduling with Graph Coloring Approach	10th International Forum on Strategic Technology (IFOST), pp.577-582	June 2015, Bali, Indonesia	Aktheruzzaman Babu and **Md. Mokammel Haque**
11	Evaluating the Performance of the Practical Lattice Reduction Algorithms	8th International Conference on Electrical and Computer Engineering (ICECE), pp.341-344, IEEE	December 2014, Dhaka, Bangladesh	**Md. Mokammel Haque** and Josef Pieprzyk
12	Predicting Tours and Probabilistic Simulation for BKZ Lattice Reduction Algorithm	9th International Forum on Strategic Technology (IFOST), pp.1-4, IEEE	October 2014, Cox's Bazar, Bangladesh	**Md. Mokammel Haque**, Josef Pieprzyk and Asaduzzaman
13	Securing U-Healthcare Sensor Networks using Public Key Based Scheme	10th International Conference on Advanced Communication Technology (ICACT), pp.1108-1111, IEEE	February 2008, Phoenix Park, South Korea	**Md. Mokammel Haque**, Al-Sakib Khan Pathan and Choong Seon Hong

14	An Efficient PKC-Based Security Architecture for Wireless Sensor Networks	IEEE Military Communications Conference (MILCOM 2007), pp.1-7, IEEE	October 2007, Florida, USA	**Md. Mokammel Haque**, Al-Sakib Khan Pathan, Byung Goo Choi and Choong Seon Hong
15	Semantic Analysis of Bangla Sentences: A compositional Semantics Approach	International Conference on Computer Processing of Bangla (ICCPB), pp.106-112	2006, Bangladesh	M. Moshiul Hoque, **Md. Mokammel Haque** and Pranab Kumar Dhar
16	S-PkSec: An Asymmetric Key Based Security Management Scheme for Sensor Network Operation	Korean Network Operations and Management Conference (KNOM), TS6-5	April 2008, Changwon, South Korea	**Md. Mokammel Haque**, Al-Sakib Khan Pathan and Choong Seon Hong
17	An Efficient Public Key Based Security Architecture for Wireless Sensor Networks	27th KIPS Spring Conference, pp.1098-1099	May 2007, Seongnam, South Korea	**Md. Mokammel Haque**, Al-Sakib Khan Pathan and Choong Seon Hong

11.4. Publication of Patent:

Title of Patent	Publishing Co.	Year of Publication	Inventor(s)
무선센서네트워크에서센서노드들사이의메시지암호화/복호화방법" (Translated TITLE: Message encryption/decryption method between sensor nodes in wireless sensor networks)	Patent No.: 10-0941764 (Korean Patent), Republic of Korea Intellectual Property Office	2010, South Korea	Al-Sakib Khan Pathan, Choong Seon Hong, **Md. Mokammel Haque,** and Gihyuk Heo

12. Other Experiences:

A. **Track Chair** and TPC member of ECCE conference 2019.

B. **External Member** (L-2, T-2, session 2016-17) of CSTE Department of Noakhali Science and Technology University (NSTU).

C. **Publication Chair** and TPC member of ECCE conference (International Conference on Electrical Computer and Communication Engineering) 2017.

D. **Deputy Sub Project Manager (DSPM)** of the Sub-Project titled *Campus e-presence: Design & Implementation* under HEQEP of UGC, Bangladesh.

E. **Publication co-chair** of IFOST'14 (The 9th International Forum on Strategic Technologies) held in Cox's Bazar, Bangladesh on October 2014.

F. **Co-Editor** of Computer Science and Engineering Research Journal (CSERJ), ISSN: 1990-4010.

G. **Casual Academic** at **Macquarie University, Australia** from February 2013 to March 2014. Course conducted: COMP125 (Fundamentals of Computer Science), COMP347 (Advanced Computer Networks).

H. Cisco Certified Network Associate (**CCNA**) on exam 640-801, Date of pass: 12-12-2004.

I. Cisco **Networking Academy Instructor**, CUET Local Academy, CUET.

J. **Master Trainer** of Bangladesh IT Engineers Examination Center (BD-ITEC) for ITEE certification.

K. Successfully completed two days long workshop on "**Embedded System/IoT based system design and implementation**" organized by IICT, BUET, Bangladesh in the year 2018.

L. Successfully completed three days long training on "**e-GP for SPM, DSPM from HEQEP**" jointly organized by Engineering Staff College & HEQEP in the year 2017.

M. Successfully completed three days long workshop on "**Cloud Computing and Big Data- A Paradigm Shift in ICT**" organized by Department of CSE, IUT, Gazipur, Bangladesh in the year 2014.

N. **Supervisor/Co-Supervisor** of Postgraduate level studies at CUET.

20. Referees:

(1)   Name: **Dr. M. Moshiul Hoque**
        Position: Professor
        Address: Department of CSE, CUET, Chittagong-4349, Bangladesh
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(2)   Name: **Dr. Josef Pieprzyk**
        Position: Professor
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(Md. Mokammel Haque, PhD)