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PhD

Professor  
Department of  
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### Category

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Researcher,  
Information Technology  
Consultant,  
Contributor in policy  
making.

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### Biography

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I have received B.S. and M.S. degrees from the University of Dhaka, Bangladesh in 1998 and 1999, respectively. I have earned PhD degree in Wireless Networking from the Department of the Computer Engineering, School of Electronics and Information, Kyung Hee University, South Korea in 2008. I was a postdoctoral fellow in the same university during 2008-2009 in the institute of Multimedia Technology.

After completing PhD and postdoc I have continued my service in the Department of Computer Science and Engineering, University of Dhaka. From October, 2013 I have served as a Technical Support Team Consultant for the Bangladesh Research and Education Network (BdREN), a component of Higher Education Quality Enhancement Project (HEQEP) till 2016. The project has been implemented by University Grants Commission under the Ministry of Education (MoE) financed by World Bank. Latter, I served as a Distance/Hybrid Learning Consultant for the same organization during 2018.

Beside all these, I have been working closely in different ministries, specially, Information and Communication Technology Division to contribute innovation evaluation and innovation fund policy making. I have contribution as a technical committee member for the National Data Center 4TDC (now BDCCL Bangladesh Data Center Company limited), first Tier IV Data Center in Bangladesh, Smart Metering for Northern Electric Supply Company (NESCO) and many others.

At the moment I am working as a Professor in the Department of Computer Science and Engineering, University of Dhaka, Bangladesh. I am conducting research works under a research lab with few of my learned colleagues and graduate research students (PhD and MS).

My research interest includes modeling, analysis and optimization of wireless networking protocols and architectures, wireless sensor networks, wireless mesh networks, Internet of Things (IoT) etc. I have published a good number of research papers in international conferences and journals

## Summary

Years of Experience							
Teaching	Programming		Database		Network Design	System Design	Project Coordination
	Coding	Debugging	Design	Debugging			
18	20	20	20	20	07	10	10

Involvement as Key Member						
Policy Making	IDA Funded Projects	Consultant (full/part-time)	Technical Committee	Social Organization involvement	National/ International Conference	Keynote Speech (2019)
2	3	3	12+	2	4+	2

Publications		
Domestic Patents	Research Articles (Journals)	Research Article (Conference)
1	25	27

## I. PROFESSIONAL EXPERIENCE

Department of CSE, University of Dhaka

Dhaka, Bangladesh

- ❖ **PROFESSOR** (OCTOBER 03, 2016~Present)
- ❖ **ASSOCIATE PROFESSOR** (JANUARY 15, 2012 ~ OCTOBER 02, 2016)
- ❖ **ASSISTANT PROFESSOR** (MARCH 07, 2007 ~ JANUARY 14, 2012)
- ❖ **LECTURER** (APRIL 06, 2004 ~ MARCH 06, 2007)
  
- ❖ Preparing course materials and delivering lectures from undergraduate to post graduate levels
- ❖ Supervising PhD Students
- ❖ Supervising thesis and projects on Wireless Networks, Wireless Sensor Network and Wireless Mesh Networks in MS and undergraduate level
- ❖ Performing other special duties in different departmental activities

Additional Appointments in CSE, DU

- ❖ STUDENT ADVISOR (14<sup>th</sup> November 2011 ~ 2013)
- ❖ MEMBER, PURCHASE COMMITTEE
- ❖ CONVENOR, Web Application and other Platforms
- ❖ CHAIRMAN and MEMBER in different examination Committees



Bangladesh Data Center Company Limited (BDCCL)

E-14/X, ICT Tower (11<sup>th</sup> Floor),  
Agargaon, Dhaka-1207  
Bangabandhu Hi-Tech City,  
Kaliakoir, Gazipur-1750

**Technology Consultant, Data Center (Part Time)** (June, 2021 ~ Present)

- ❖ Collect, Analyze and Share existing technological issues of BDCCL.
- ❖ Assist BDCCL in preparing Policies, Service Rules and other business-related issues
- ❖ Recommendation on the contemporary technological changes
- ❖ Prepare Strategic plan for BDCCL
- ❖ Assist BDCCL in Negotiation with other clients

Bangladesh Research and Education Network (BdREN)

UGC Building, Dhaka

**Technical Support Team Consultant (Distance/Hybrid Learning – Part Time)**  
(December 31, 2017 ~ December 30, 2018)

- ❖ Collect, Analyze and Share existing issues, problems of Distance Learning Theaters (DLTs).
- ❖ Model and Architecture and specifications of interfacing applications for conducting MOOC and SPOC using LMS
- ❖ Recommendations on required policy changes to conduct regular courses remotely using DLT or through nomadic echo system
- ❖ A complete usage policy for the DLTs at the public/private universities and medical colleges.
- ❖ Provide necessary support during distance learning activity training courses and workshops to be arranged by BdREN

Bangladesh Research and Education Network (BdREN)

UGC Building, Dhaka

**Technical Support Team Consultant (Technical)** (October 03, 2013 ~ October 02, 2016)

- ❖ Provide assistance to UGC/HEQEP/UGC/BdREN to assess technical manpower requirement for smooth operation and maintenance of BdREN with respect to national REN of other countries and in light of the sustainability of BdREN.
- ❖ Supervise the installation/configuration, participate in testing and provide assistance in commissioning of different system/equipment and related services at various sites including UGC, Universities and PGCB sites.
- ❖ Liaise with the stakeholder community – Universities, Research Institutions, UGC, BTRC, MoE, telecom operators, local government authorities, fiber optic network providers and related organizations on different issues e.g. right of way/road-



cutting permission, access permission, connectivity, regulatory, and technical issues

Institute of Multimedia Technology  
Kyung Hee University

Suwon, South Korea

- ❖ **POSTDOCTORAL FELLOW** (2008 ~ 2009)
- ❖ **NON-TENURE TRACK FACULTY** (2008 ~ 2009)
  - ❖ Investigating Management Issues and Network Manageability of Future Internet ([Publication](#))
  - ❖ Minimization of Channel Zapping time of IPTV ([Publication](#))
  - ❖ Supervising and managing the students of Networking laboratory, Kyung Hee University
  - ❖ Conducting Programming and Networking Courses for Undergraduate level

Department of Computer Engineering  
Kyung Hee University

Suwon, South Korea

- ❖ **PhD STUDENT** (2004 ~ 2008)
  - ❖ Investigating new protocols for wireless sensor networks (Selected Publications [1](#), [2](#), [3](#), [4](#))
  - ❖ Managing the foreign students of Networking Laboratory
  - ❖ Guiding Masters students of Networking Laboratory

Promiti Computers & Network Ltd

Dhaka, Bangladesh

- ❖ **PROGRAMMER** (2001 ~ 2002)
  - ❖ Design and development of banking software
  - ❖ Design and development of accounting software
  - ❖ Development of C++ Builder based components

Adjunct Faculty Member

2001~2012

- ❖ Department of Islamic Studies, University of Dhaka
  - ❖ Computer Fundamentals
- ❖ Department of Tourism and Hospitality Management, University of Dhaka
  - ❖ Computer Fundamentals
- ❖ Islamic University of Technology (IUT)
  - ❖ Computer Networks (Theory and Lab)



- ❖ Advanced Computer Networks
- ❖ Daffodil International University (DIU)
- ❖ Database Management System
- ❖ Software Engineering
- ❖ Data Mining
- ❖ Military Institute of Science & Technology (MIST)
- ❖ Computer Networks (Theory and Lab)

## II. ACADEMIC QUALIFICATIONS

Doctor of Philosophy	2004 ~ 2008
Department of Computer Engineering	Thesis Title: Congestion Avoidance and Fairness for Wireless Ad Hoc Networks
School of Electronics & Engineering	Supervisor: Prof. Choong Seon Hong
Kyung Hee University, South Korea	

Master in Computer Science	1998 ~ 2000
Department of Computer Science & Engineering	Thesis Title: Predictive Item Pruning FP-Tree Algorithm
University of Dhaka	Supervisor: Prof. Md. Rezaul Karim

Bachelor in Computer Science	1995 ~ 1998
Department of Computer Science & Engineering	
University of Dhaka	

## III. PROJECTS/SCHOLARSHIP/GRANTS

Mind-Flair: Applying Multi-Agent Deep Reinforcement Learning for Energy Sharing in Zero Energy Communities	2021 ~ 2022
Funded by Information and Communication Division, MoPTIT	Position: Team Leader

**Description:** In this project we aimed to build a model that would help the building in a single community to take appropriate actions while maintaining a net zero usage of the community over a period of time. We will be using Multi-agent Deep Reinforcement Learning to build this model which uses the trial and error method. Successfully building this model would help Bangladesh as there are great resources for renewable energy in here and this can reduce energy usage by a lot and fulfill the demand of energy of its fullest.

Mind-Flair: Cloud based online Platform for Improving Mental Health	2018 ~ 2019
Funded by Information and Communication Division, MoPTIT	Position: Team Leader



**Description:** In this project we have developed a web-based platform that can help mentally depressed university students in the long term. Based on conditions, the platform usually assign specialized volunteers to every user. The volunteers will provide emotional support and counselling to the users and help to develop a positive and productive mindset gradually. Finally, a personalized profile is generated for each user to keep track of mental growth, which will help the volunteers and student advisors to understand the users better. It will also help the users complete mental health exercises and courses to improve the overall mental health condition and provide improvement reports periodically.

Dhaka University Student Registration Automation Funded by University of Dhaka	2011 ~ 2013 Position: Member, Core Team Team Leader: Professor Dr. Hasibur Rashid
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**Description:** Every year around forty thousand (40000) students take admission in different departments and affiliated colleges of Dhaka University. The developed application under this project provides a web-based interface for the students and other academic and administrative officials through which admission and registration process can be completed very easily and quickly.

Dhaka University Online Admission Funded by University of Dhaka	2010 ~ Continued Position: Member, Core Team Team Leader: Professor Dr. Hasibur Rashid
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**Description:** Every year around 300 thousand students apply in Dhaka University to get admission. The manual process of application submission and management is a huge task for the applicants as well as for the university authority. This project completed the design and development of an Internet-based true online admission system through which students will be able to apply from anywhere in the world. Also, a student qualified in the admission test will be able to provide his/her choice online i.e., a student needs to be in the university only when he/she is eligible and willing to study in DU.

Campus Network Security Workshop Funded by TEIN*CC, European Union	2017 ~ 2017 Position: Member Team Leader: Professor Choong Seon Hong
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**Description:** With the advent of autonomous computing, researchers in network monitoring management are paying a great magnitude of attention on software-based manager rather than human manager. The aim of the project is to design and develop an autonomous management of future internet which will reduce the gap of human manager and software based autonomous manager.



Collect, Analyze and Share Future Internet  
(CASFI)  
Funded by Ministry of ICT, South Korea

2008 ~ 2009  
Position: Team Leader

**Description:** With the advent of autonomous computing, researchers in network monitoring management are paying a great magnitude of attention on software-based manager rather than human manager. The aim of the project is to design and develop an autonomous management of future internet which will reduce the gap of human manager and software based autonomous manager.

Research of Next Generation Network  
Technology to Support Efficient Channel  
Service in IPTV Networks  
Funded by Korea Telecom, South Korea

2008 ~ 2009  
Position: Member  
Team Leader: Professor Choong Seon  
Hong

**Description:** The traditional concepts of TV stations are in a question due to its huge implementation cost. Therefore, researchers are thinking of developing software based low-cost TV stations and the transmission of TV channels will be accomplished through existing IP network. Therefore, the Television service through IP network is IPTV. One of the major hurdles is amount of available bandwidth. Therefore, only few numbers of channels can be supplied at a time. As a consequence, the channel zapping time increases when the channel is not available with the nearest station. The goal of this project is to minimization of the channel zapping time and thereby make as close as to traditional cable transmission-based TV

Development of Interworking Framework  
between WPAN (Wireless Personal Area  
Network) and NEMO (Network Mobility)  
Funded by Samsung Electronics, South  
Korea

2007  
Position: Member  
Team Leader: Professor Choong Seon  
Hong

**Description:** The Network Mobility (NEMO) and IPv6 over Low power WPAN (6LoWPAN) protocols are the two most important technologies in current networking research and are vital for the future ubiquitous environment. The aim of this project is to design a lightweight protocol to support the mobility of 6LoWPAN.

Development of Security Algorithm for PLC  
(Power Line Communication)  
Funded by Korea Electric Power Research  
Institute, South Korea

2005  
Position: Member  
Team Leader: Professor Choong Seon  
Hong

**Description:** Power Line Communication (PLC) is a rapidly evolving technology, aiming to use electrical power lines for the transmission of data. With the





expansion scale of PLC, the security issues in PLC system have been focused on as one of the challenging problems. Major goal of this project is to derive a public/private key distribution and device authentication schemes that adopt IBC (Identity-based Cryptography) concept in order to use public key based security scheme in large scale PLC system.

Result Processing of Bachelor of English Literature Training (BELT) Authority: Bangladesh Open University	2001 Position: Member, Core Team Team Leader: Md. Monirul Islam Sharif
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**Description:** The software is intended to develop for the operation of student's registration and result processing of one of the courses titled BELT in Bangladesh Open University. The software is capable of managing 80 tutorial centers. It was designed C++ Builder in frontend and InterBase at the backend.

#### IV. Publications

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##### International Journals

1. Mashrur Rashik, Md. Musfiqur Rahman, Md. Mosaddek Khan, **Md. Mamun-Or-Rashid**, Long Tran-Thanh, Nicholas R. Jennings: "Speeding up distributed pseudo-tree optimization procedures with cross edge consistency to solve DCOPs.", Journal of Applied Intelligence 51(3): 1733-1746 (2021)
2. Palash Roy, Sujan Sarker, Md. Abdur Razzaque, **Md. Mamun-Or-Rashid**, Mohammad Mehedi Hassan, Giancarlo Fortino: "Distributed task allocation in Mobile Device Cloud exploiting federated learning and subjective logic.", J. Syst. Archit. 113: 101972 (2021)
3. Md. Ahsan Habib, Sajeeb Saha, Md. Abdur Razzaque, **Md. Mamun-Or-Rashid**, Mohammad Mehedi Hassan, Pasquale Pace, Giancarlo Fortino: "Lifetime Maximization of Sensor Networks Through Optimal Data Collection Scheduling of Mobile Sink.", IEEE Access 8: 163878-163893 (2020)
4. Md. Ahsan Habib, Sajeeb Saha, Md. Abdur Razzaque, **Md. Mamun-Or-Rashid**, Giancarlo Fortino, Mohammad Mehedi Hassan, "Starfish routing for sensor networks with mobile sink", Journal of Network and Computer Applications, 123: 11-22 (2018)
5. Maheen Islam, Md. Abdur Razzaque, **Md. Mamun Or Rashid**, Mohammad Mehedi Hasan, Abdulhameed Alelaiwi, "Traffic Engineering in Cognitive Mesh Networks: Joint Link-Channel Selection and Power Allocation", Journal of Computer Communications, 116:212-224(2018).
6. Md. Abdul Hamid, Mohammad Abdullah-Al-Wadud, Mohammad Mehedi Hassan, Ahmad Almogren, Atif Alamri, Abu Raihan M. Kamal, **Md. Mamun-Or-Rashid**, "A





- key distribution scheme for secure communication in acoustic sensor networks. Future Generation Comp. Syst.”, 86: 1209-1217 (2018)
7. Maheen Islam, Md. Abdur Razzaque, **Md. Mamun Or Rashid**, Mohammad Mehedi Hasan, Ahmad Almorgen and Abdullahameed Alelaiwi, “Dynamic Traffic Engineering for High-Throughput Data Forwarding in Wireless Mesh Networks”, Journal of Elsevier’s Computer and Electrical Engineering, 56: 130-144 (2016)
  8. Maheen Islam, M. Lutfar Rahman, **Md. Mamun-Or-Rashid**, “Traffic Priority Based Adaptive and Responsive Congestion and Rate Control for Wireless Mesh Networks”. Computer and Information Science 7(2): 99-116 (2014)
  9. Maheen Islam, M. Lutfar Rahman, **Md. Mamun-Or-Rashid** “An Efficient Traffic-Load and Link-Interference Aware Routing Metric for Multi Radio Multi Channel Wireless Mesh Networks Based on Link's Effective Capacity Estimation”. Computer and Information Science 7(4): 129-142 (2014)
  10. Md. Ashrafudding and **Md. Mamun-Or-Rashid**, “Energy Efficient Fitness based Routing Protocol for Underwater Sensor Network”, International Journal of Intelligent Systems and Applications (IJISA), Vol. 06, pp 61-69, 2013
  11. Md. Ashraf Uddin, **Mamun-or-Rashid**, Md. Mustafizur Rahman, "Priority Metric based Ad Hoc Routing for Underwater Sensor Network", International Journal of Computer Network and Information Security (IJCNIS), vol.5, no.12, pp 1-11, 2013
  12. Shariar Intiaz, Md. Mosaddek Khan, **Md. Mamun-or-Rashid**, Md. Mustafizur Rahman, “Improved Adaptive Routing for Multihop IEEE 802.15.6 Wireless Body Area Networks” International Journal of Intelligent Systems and Applications(IJISA), Vol. 5 No. 12 PP 64-71, 2013
  13. Md. Ashrafudding and **Md. Mamun-Or-Rashid**, “Link Expiration Time-Aware Routing Protocol for UWSNs”, Journal of Sensors, Vol. 2013, pp 1-9, 2013
  14. Md. Mosaddek Khan and Md. **Mamun-or-Rashid**, “An Energy Efficient Multicast Routing Protocol Exploiting MGS Clustering Method in Mobile Ad-hoc Networks”, Journal of Computing, Vol. 3, No. 7, pp 60-67, 2011
  15. **Md. Mamun-Or-Rashid**, Muhammad Mahbub Alam, Md Abdul Hamid and Choong Seon Hong, “A Flow Rank based Probabilistic Fair Scheduling Mechanism for Wireless Ad Hoc Networks”, Journal of Wireless Networks (WINET), Springer, Vol. 6, No. 3, pp 723-729, 2010 (SCI)
  16. Md. Abdur Razzaque, **Md. Mamun-Or-Rashid**, Muhammad Mahbub Alam and Choong Seon Hong, Aggregated Traffic Flow Weight Controlled Hierarchical MAC Protocol for Wireless Sensor Networks, Journal of Annals of Telecommunications, Springer, Vol. 64 No. 11-12, pp. 705-721, 2009 (SCI)
  17. Muhammad Mahbub Alam, Md. Abdur Razzaque, **Md. Mamun-Or-Rashid** and Choong Seon Hong, Energy-Aware QoS Provisioning for Wireless Sensor Networks: Analysis and Protocol, Journal of Communication and Networks, Vol. 11, No. 4, pp. 390-405, 2009 (SCI)
  18. Md. Abdur Razzaque, Muhammad Mahbub Alam, **Md. Mamun-Or-Rashid**, “Multi-constraint QoS Geographic Routing for Heterogeneous Traffic in Sensor Networks”, IEICE Transactions on Communications, Vol. E91-B, No. 8, pp. 2589-2601, 2008

(SCI)

19. **Md. Mamun-Or-Rashid**, Muhammad Mahbub Alam, Md. Abdur Razzaque and Choong Seon Hong, "Congestion Avoidance and Fair Event Detection for Wireless Sensor Network", IEICE Transaction on Communications, Vol.E90-B, No. 12, pp. 3362-3372, December 2007 (SCI)
20. Muhammad Mahbub Alam, **Md. Mamun-or-Rashid** and Choong Seon Hong, "Distributed Coordination and QoS-Aware Fair Queueing in Wireless Ad Hoc Networks", LNCS 3981, pp. 651-660, to be held on 8-11 May 2006 (SCIE)
21. Muhammad Mahbub Alam, **Md Mamun-Or-Rashid**, Choong Seon Hong, "QoS-Aware Fair Scheduling in Wireless Ad Hoc Networks with Link Errors", LNCS 4238(APNOMS 2006), pp.1-10, September 2006 (SCIE)
22. **Md. Mamun-Or-Rashid**, Choong Seon Hong and Jinsung Cho, "Energy Efficient Dynamic Cluster Based Clock Synchronization for Wireless Sensor Network", Lecture Notes in Computer Science, pp. 1166-1169, Vol. 3614, August 2005(SCIE)

#### **Domestic Patent:**

1. Choong Seon Hong, **Md. Mamun-Or-Rashid**, Cho Eung Jun, "Autonomous Management Method for Processing Unexpected events using interaction between nodes in sensor networks", PCT/KR2008/006704, 2008.11.13

#### **International Conference:**

1. Md. Musfiqur Rahman, Ayman Rasheed, Md. Mosaddek Khan, Mohammad Ali Javidian, Pooyan Jamshidi, **Md. Mamun-Or-Rashid**: "Accelerating Recursive Partition-Based Causal Structure Learning.", AAMAS 2021: 1028-1036
2. Ahsan Habib Tareq, Sajeeb Saha, Md. Abdur Razzaque, **Md. Mamun-Or-Rashid**, "On the Optimal Size of Ring Canal in Starfish Routing", 2019 International Conference on Informatics, Electronics and Vision (ICIEV), IEEE, Seattle, USA, August, 2019.
3. Md. Sakib Anwar, Fariha Noboni, Nusrat Mehajabin, **Md. Mamun-Or-Rashid**, Md. Abdur Razzaque: A Comparative Study on Gaussian Process Regression-based Indoor Positioning System. International Conference on Innovation in Engineering and Technology (ICIET), 27-28 Dec, 2018, Dhaka, Bangladesh. (2018)
4. Saklain Zaman, Chinmoy Chakrabarty, Nusrat Mehajabin, **Md. Mamun-Or-Rashid**, Md. Abdur Razzaque: A Deep Learning Based Device Authentication Scheme Using Channel State Information. International Conference on Innovation in Engineering and Technology (ICIET), 27-28 Dec, 2018, Dhaka, Bangladesh. (2018)
5. Maheen Islam, Md. Abdur Razzaque, **Md. Mamun-Or-Rashid**: Joint Link-Channel Selection and Power Allocation in Multi-Radio Wireless Mesh Networks. The Fifth IEEE International Workshop on Emerging Cognitive Radio Applications and algorithms (IEEE CORAL 2017), Macaw, China. 9-12 June(): (2017)
6. Maheen Islam, Md. Abdur Razzaque, **Md. Mamun-Or-Rashid**: Joint Link-Channel Selection and Rate Allocation Heuristic for Cognitive Radio Mesh Networks. IEEE TENCON, Singapore, 22-25 Nov 2016. (2016)



7. Maheen Islam, M. Lutfar Rahman, **Md. Mamun Or Rashid**, "IL-CD: Interference and load aware congestion detection and bandwidth efficient rate allocation for wireless mesh networks", The International Symposium on Networks, Computers and Communications (ISNCC), Tunisia, pp. 1-5, 2014
8. Md. Mosaddek Khan, **Md. Mamun-or-Rashid**, "A Stable Clustering Method for Efficient Geographic Routing in Mobile Ad-Hoc Networks", 13th International Conference on Computer and Information Technology (ICCIT), Dhaka, pp 539-543, 2010
9. **Md. Mamun-Or-Rashid**, Dae Sun Kim and Choong Seon Hong, "A Channel Management Framework to Construct User Preferred Fast Channel Change Stream in IPTV, In the Proceedings of APNOMS, Lecture Notes on Computer Science, LNCS 5297, pp. 462-465, 2008.
10. Muhammad Mahbub Alam, **Md. Mamun-Or-Rashid** and Choong Seon Hong, "WSNMP: A Network Management Protocol for Wireless Sensor Networks", In the proceedings In the proceedings of 10<sup>th</sup> ICACT, pp. 742-744, Feb 17-20, 2008
11. Md. Abdur Razzaque, Muhammad Mahbub Alam, **Md. Mamun-or-Rashid** and Choong Seon Hong, "Multi-constrained QoS Geographic Routing for Heterogeneous Traffic in Sensor Networks" In the Proceedings of IEEE CCNC, Las Vegas, pp. 157-162, 2008
12. **Md. Mamun-Or-Rashid**, Muhammad Mahbub Alam, Md. Abdur Razzaque and Choong Seon Hong, "Reliable Event Detection and Congestion Avoidance in Wireless Sensor Networks", In the proceedings of High Performance Computing Conference (HPCC), Houston, Texas, Sep 26-28, LNCS 4782, pp. 521-532, 2007
13. Md. Abdur Razzaque, **Md. Mamun-Or-Rashid**, Choong Seon Hong, "MC2DR: Multi-cycle Deadlock Detection and Recovery Algorithm for Distributed Systems", In the proceedings of High Performance Computing Conference (HPCC), Houston, Texas, Sep 26-28, LNCS 4782, pp. 554-565, 2007
14. **Md. Mamun-Or-Rashid** and Choong Seon Hong, "Dynamic Contention Window based Congestion Control and Fair Event Detection in Wireless Sensor Network" In the Proc. of KIPS, pp. 1288-1290, May 2007
15. **Md. Mamun-Or-Rashid**, Choong Seon Hong, "LSLP: Link Stability and Lifetime Prediction Based QoS Aware Routing for MANET", JCCI 2007, Phoenix Park, Korea, May 2-4 2007
16. **Md. Mamun-Or-Rashid**, Muhammad Mahbub Alam and Choong Seon Hong, "Energy Conserving Passive Clustering for Efficient Routing in Wireless Sensor Network", The 9th International Conference on Advance Communication Technology, ICACT 2007, Vol. II pp 982-986, February, 2007
17. Muhammad Mahbub Alam, **Md. Mamun-or-Rashid**, Choong Seon Hong, "Transmission of Multimedia Data over Next Generation Wireless Networks", IEEE ICACT, pp 1804-1808, February, 2007
18. Hye Chan Lee, **Md. Mamun-Or-Rashid**, Choong Seon Hong, "QSEL: QoS Aware Stable and Effective Lifetime Prediction Routing for Mobile Ad Hoc Networks", ICUT2007, Dubai, February 12-14 2007

19. **Md. Mamun-Or-Rashid**, Muhammad Mahbub Alam and Choong Seon Hong, "Wasteful Energy Conserving Maximum Lifetime Routing for Wireless Sensor Network", In the Proceedings of ICOIN 2006, Sendai, Japan, 15-19 January 2006
20. **Md. Mamun-Or-Rashid**, Muhammad Mahbub Alam and Choong Seon Hong, "Energy Efficient Routing for Highly Dense Sensor Networks Based on Residual Energy and Distance", Proceedings of IEEE ICNEWS 2006, Dhaka, Bangladesh, pp. 52-56, 2-4 January, 2006
21. Muhammad Mahbub Alam, **Md. Mamun-Or-Rashid** and Choong Seon Hong, "QoS-Aware Routing for Sensor Networks Using Distance-Based Proportional Delay Differentiation (DPDD)", Proceedings of IEEE ICNEWS 2006, Dhaka, Bangladesh, pp. 57-61, 2-4 January, 2006
22. Md. Abdul Hamid, **Md. Mamun-Or-Rashid** and Choong Seon Hong, "Routing Security in Sensor Network: HELLO Flood Attack and Defense", Proceedings of IEEE ICNEWS 2006, Dhaka, Bangladesh, pp. 77-81, 2-4 January, 2006
23. Md. Abdul Hamid, **Md Mamun-Or-Rashid** and Choong Seon Hong, "Defense Against Lap-top Class Attacker in Wireless Sensor Network, Proceedings of 8th IEEE ICACT 2006, Volume I, Phoenix Park, Korea, pp. 314-318, 20-22 February, 2006
24. **Md. Mamun-Or-Rashid**, Choong Seon Hong and Chi-Hung In, "Passive Cluster Based Clock Synchronization in Sensor Network", Proceedings of IEEE AICT 2005, pp.340-345, July 2005
25. M. Julius Hossain, Oksam Chae, **Md. Mamun-Or-Rashid**, Choong Seon Hong, "Cost-effective Maximum Lifetime Routing Protocol for Wireless Sensor Networks", Proceedings of IEEE AICT 2005, pp.314-319, July 2005
26. **Md. Mamun-Or-Rashid** and Choong Seon HONG, "Cluster Based Clock Synchronization for Sensor Network", In the KIPS Spring Conference, Vol.32 No.1(A), pp. 415-417, 2005 (Best Paper Award)
27. **Md. Mamun-Or-Rashid**, Choong Seon Hong, "Preventing Tunneling Attack Using Minimum and Approximate Hop Count for Secure MANET Routing", In the KIPS Spring Conference, pp.1445-1448, November 2004

#### **Domestic Journal:**

1. **Md. Mamun-Or-Rashid** and Md. Rezaul Karim, "Predictive Item Pruning FP Tree Algorithm", The Dhaka University Journal of Science, Vol. 51(3), pp. 39-46, 2004 (October)
2. Chowdhury Farhan Ahmed, Md. Mustafizur Rahman and **Md. Mamun-Or-Rashid**, "XACT-CAST Protocol Improvement for Distributed Database", The Dhaka University Journal of Science, Vol. 52(3), pp. 331-338, 2004 (July)
3. **Md. Mamun-Or-Rashid**, Md Rafiqul Islam and Hafiz Md Hasan Babu., "Effective Web Usage Mining Using Client Side Tracking", The Dhaka University Journal of Science, Vol. 51(2), pp. 46-51, 2004 (July)



## V. Other Activities

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1. General Secretary, One Bangladesh, 2020-till date.
2. IPC Member, International Conference on Computer and Information Technology, During 2008 and 2009
3. Session Co-Chair, International Conference on Computer and Information Technology, 2010
4. Member Secretary, Organizing Committee, Meet BdREN 2015
5. Session Co-Chair, Distance Learning Session, Meet BdREN 2015
6. Additional Secretary General, Executive Committee (2010-2012), old rajshahi cadets association (orca)
7. General Secretary, Executive Committee (2009-2010), Alumni Association of Department of Computer Science and Engineering, University of Dhaka.
8. Secretary General, SWANIRVAR Bangladesh (NGO), From 2014
9. Member, Governing Body, SWANIRVAR Bangladesh (NGO), From March, 2012



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Md. Mamun-Or-Rashid (PhD)

