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Dr. Md. Motaharul Islam

Professor, Dept. of CSE & Director, MSCSE Program

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Biography

Prof. Dr. Md. Motaharul Islam has been working as a Director of Masters in Computer Science and Engineering (MSCSE) Program. Masters in Computer Science and Engineering (MSCSE) Program. **Dr. Islam** joined **United** International **University** (UIU) as a Full Professor, in the Dept. of Computer Science and Engineering, Faculty of Science and Engineering in January 2020. Before joining UIU, he had been serving as an Associate Professor in the same Department of Brac University (BracU). He had also served as an Assistant Professor in the Dept. of Computer Science under the Faculty of Computer and Information Systems at Islamic University of Madinah (IUM), Saudi Arabia. Before traveling to IUM, he had been working as an Assistant Professor in Computer Science and Engineering Department of Islamic University of Technology (IUT), OIC, Gazipur, Bangladesh. He has been awarded PhD in Computer Engineering from Kyung Hee University, South Korea in the field of Smart Internet of Things (IoT) in 2013. Dr. Motahar had also served as the Chief Technical Officer of BERNET (Currently BdREN) of University Grants Commission of Bangladesh (UGC). As the community service, he has been working as a Director (Communications) for the Bangladesh Local Chapter of International Network for Outcome based Education (IN4OBE) founded by the father of OBE Prof. Dr. William Spady. He has also been serving as the editorial board member and reviewer of different international journals. He has published around 100 research articles in reputed international journals and conferences. His research interest includes Smart IoT, NB-IoT, IP-WSN, Cloud Computing, Network Virtualization, Edge Intelligence, Machine Learning etc. For the last 7 years, Dr. Motahar had been actively engaged in outcome based education (OBE) for ABET and BAETE. He led the OBE Committee, Curriculum Committee at UIU and BracU and supervised the Cloud Computing Research Lab at BracU. He also served as the adviser of IEEE CS students chapters in different universities.

Education

MS-PhD in Computer Engineering Kyung Hee University, Seoul, South Korea.Degree Awarded: 2013.

B. Sc. in Computer Science and Information Technology (CIT) Islamic University of Technology (IUT)Organization of Islamic Cooperation (OIC), Gazipur, Bangladesh. Degree Awarded: 2002.

Higher Secondary Certificate (HSC) Rajshahi College, Rajshahi, Bangladesh.Degree Awarded: 1996.
Secondary School Certificate (SSC) Pabna Zilla School, Pabna, Bangladesh.Degree Awarded: 1994.

Experiences

Professor Service Period: January 2020 to â€"Dept. of Computer Science and Engineering (CSE) School of Science and Engineering United International University , Dhaka, Bangladesh.

Associate Professor Service Period: Sep. 2018 to January 2020Dept. of Computer Science and Engineering (CSE) School of Engineering and Computer Science **BRAC University** , Dhaka, Bangladesh.
Assistant Professor Service Period: December 2016 to August 2018Dept. of Computer Science (CS) Faculty of Computer and Information Systems (FCIS) **Islamic University of Madinah** , AlMadinah, Kingdom of Saudi Arabia.
Assistant Professor Service Period: December 2013 to December 2016Dept. of Computer Science and Engineering (CSE) **Islamic University of Technology (IUT)** Organization of Islamic Cooperation (OIC) Gazipur, Bangladesh.
Research Assistant Service Period: September 2009 to August 2013Intelligent Cloud and Security Laboratory (ICNS Lab) Dept. of Computer Engineering **Kyung Hee Universit** y, Seoul, South Korea.
Senior Lecturer Service Period: January 2006 to August 2009Institute of Scientific Instrumentation (ISI) **University Grants Commission of Bangladesh (UGC)** Dhaka, Bangladesh.
Senior Lecturer Service Period: February 2005 to December 2005Dept. of Computer Science and Engineering Faculty of Science and Engineering **Green University of Bangladesh** Dhaka, Bangladesh
Lecturer Service Period: September 2003 to January 2005Dept. of Computer Science and Engineering **Uttara University,** Dhaka, Bangladesh.

Awards and Achievements

1. **Recipient of Brain Korea-21 (BK-21) Scholarship program sponsored by the Govt. of the Republic of Korea for IT International Students during MS-PhD program. Period: September 2009 â€" August 2013.**
2. **President Scholarship for supporting Tuition Fees in Kyung Hee University, South Korea. Period: September 2009 â€" August 2013.**
3. **Best researcher award from Intelligent Cloud and Network Security (ICNS) Lab, Kyung Hee University, South Korea, 2012.**
4. **Organization of Islamic Cooperation (OIC) Scholarship in undergraduate study at IUT, Bangladesh Period: 1999-2002.**
5. **Bangladesh Govt. Scholarship for Undergraduates Study, Bangladesh. Period: 1997-2000.**
6. **Bangladesh Govt. Scholarship in Secondary School Certificate Period: 1995-1996.**
7. **Junior Scholarship from Govt. of Bangladesh Period: 1993-1994.**

Research Interests

- **Smart Internet of Things**
- **IP-based Wireless Sensor Network (IP-WSN)**
- **Routing Protocol design in IP-WSN**
- **Virtualization in IP-WSN/IoT**
- **Cloud Computing**
- **Edge Computing**
- **Future Internet**

Publications

Journal Papers 1. **Motaharul Islam** et al. â€œEnabling pandemic-resilient healthcare: Narrowband Internet of Things and edge intelligence for real-time monitoringâ€ in CAA Transaction on Intelligence Technology, 2024, [ISI Indexed, Impact Factor: 5.1, Q1] 2. **Motaharul Islam** and Z. A. Bhuiyan, â€œAn Integrated Scalable Framework for Cloud and IoT Based Green Healthcare System,â€ in IEEE Access, vol. 11, pp. 22266-22282, 2023. [ISI Indexed, Impact Factor: 3.367, Q1] 3. **Motaharul Islam** , Hasan, M. and Bhuiyan, Z.A., 2023. An analytical approach to error detection and correction for onboard nanosatellites. EURASIP Journal on Wireless Communications and Networking, 2023(1), pp.1-23. [ISI Indexed, Impact Factor: 2.559, Q1] 4. Mondal, S.; Faruk, F.B.; Rajbongshi, D.; Efaz, M.M.K.; **Motaharul Islam**. GEECO: Green Data Centers for Energy Optimization and Carbon Footprint Reduction. *Sustainability* **2023** , *15* , 15249. **[Scopus, SCIE and SSCI (Web of Science) Indexed, Impact Factor: 3.3, Q1]** 5. Niful Islam, Md. Mehedi Hasan Jony, Emam Hasan, Sunny

Sutradhar, Atikur Rahman, **Motaharul Islam** , "Towards Lightweight Diabetic Retinopathy Classification: A Knowledge Distillation Approach for Resource-Constrained Settings" *Applied Science, 2023* [ISI Indexed, Impact Factor: 2.7, Q1] 6. Sarna, Nusrat Jahan, Mosnur Ahmed, Farzana Ahmed Rithen, and **Motaharul Islam**. 2023. "A Framework of Vehicle Usage Optimization for Tour Purposes" *Applied Sciences* 13, no. 19: 10973 . [ISI Indexed, Impact Factor: 2.7, Q1] 7. F. Reya, A. Ahmed, T. Zaman, and **M. M. Islam** , " GreenPy: Evaluating Application-Level Energy Efficiency in Python for Green Computing", Annals of Emerging Technologies in Computing (AETiC), vol. 7, no. 3, pp. 92-110, July 2023. [Scopus Indexed, Impact Factor: 2.8, Q2] 8. Mithila Farjana, Abu Bakar Fahad, Syed Eftasum Alam, **Motaharul Islam** " An IoT-Cloud based E-waste management system for resource reclamation with a data-driven decision making process", MDPI IoT, June 2023. (Accepted) [Scopus Indexed, Q1] 9. Zahedi Azam, **Motaharul Islam** , Mohammad Nurul Huda. Comparative Analysis of Intrusion Detection Systems and Machine Learning Based Model Analysis Through Decision Tree, IEEE Access, 2023**. [Impact Factor: 3.467, Q1]** 10. Md Shamshuzzoha, **Motaharul Islam.** Early Prediction Model of Macrosomia using Machine Learning for Clinical Decision Support, MDPI, Diagnostic Journal, 2023. [PubMed Indexed,[**Impact Factor: 3.6, Q2**] 11. **Motaharul Islam** et al. "A Novel Approach to Enhance Safety on Drowsy Driving in Self-Driving Car" Mobile Networks and Applications, 2022, [ISI Indexed, **Impact Factor: 3.426**] 12. Rashedur Rahman, **Md. Motaharul Islam** and Ahmed Iqbal Pritom "ASRPH: Application Specific Routing Protocol for Health Care" Computer Networks, Elsevier, Vol. 197, 2021. [**ISI Indexed, Impact Factor: 4.474**] 13. Rafsan Al Mamun, **Motaharul Islam** , Rabana Tajrin, Nabiha Noor, Shafinaz Qader, "Error Detection And Correction For Onboard Satellite Computers Using Hamming Code", International Journal of Electronics and Communication Engineering, World Academy of Science, Engineering and Technology, Vol. 14, No. 9, 2020. 14. Faed Ahmed Arnob, Md. Azmol Fuad, Abu Tahir Nizam, and **Motaharul Islam**, "A Novel Traffic System for Detecting Lane-Based Rule Violation" Annals of Emerging Technologies in Computing, Vol. 4, No. 2020. [Scopus Indexed] 15. **Motaharul Islam** , Soualihou Ngnamsie and Arham A. Siddique, "Efficient Payload Compression in IP-based Wireless Sensor Network: Algorithmic Analysis and Implementation", Journal of Sensors, Volume 2019, Article ID 9808321, 2019,[**ISI Indexed, Impact Factor: 2.024**] 16. **Motaharul Islam** , Khan, Zaheer and Alsaawy, Yazed, "A framework for Harmonizing Internet of Things (IoT) in Cloud: Analyses and Implementation", Wireless Networks, Springer, 2019, ISSN=1572-8196, **[ISI Indexed, Impact Factor: 2.405]** 17. Nandakumar, S. Nandakumar, T. Velmurugan, Utthara Thiagarajan, Marimuthu Karuppiah, Mohammad Mehedi Hassan, Abdulhameed Alelaiwi, **Md. Motaharul Islam** , "Efficient Spectrum Management Techniques for Cognitive Radio Networks for Proximity Service," in IEEE Access, vol. 7, pp. 43795-43805, 2019. **[ISI Indexed, Impact Factor: 4.098]** 18. **Motaharul Islam** , Ali Alzahrani, Rifat Rahman, Mohammad Raihan Kabir, "Honeypot based Cellular Cross-layer Intrusion Detection and Response", International Journal of Computer Science and Network Security, Volume 18: Issue 6, 2018 **[Indexed Web of Science]** 19. **Motaharul Islam,** Soualihou Ngnamsie "Structural Health Monitoring by Payload Compression in Wireless Sensors Network: An Algorithmic Analysis", International Journal of Engineering & Management Research, Volume-8, Issue-3, 2018. 20. **Motaharul Islam** , Muhammad Mehedi Hassan, Atif Alamri, Eui-Nam Huh "Data Classification and Scheduling for Sensor Virtualisation scheme in public healthcare system", Special Issue on: Ubiquitous Computing in Wireless Sensor Networks, Int. J. Sensor Networks, Vol. 22, No. 4, pp. 259 – 273, 2016. [**ISI Indexed, Impact Factor: 1.289**] 21. Rifat Rahman, Mohammad Raihan Kabir, **Motaharul Islam** "Cellular Cross-layer Intrusion Detection and Response", International Journal of Advances in Computer Networks and its Security, Volume 6 : Issue 1, pp. 106-111, 2016. 22. **Motaharul Islam** , Eui-Nam Huh "Energy Efficient Multilayer Routing Protocol for SPMIPv6 based IP-WSN", Special Issue on: Internet of Things, Int. J. of Sensor Networks, Vol.18, No.3/4, pp.114 – 129, 2015. [**ISI Indexed, Impact Factor: 1.289**] 23. **Motaharul Islam** , Eui-Nam Huh, "A Novel Data Classification and Scheduling Scheme in the Virtualization of Wireless Sensor Networks", International Journal of Distributed Sensor Networks, July 2013 vol. 9 no. 7546708. [**ISI Indexed, Impact Factor: 1.614**] 24. **Motaharul Islam** , Jun Hyuk Lee, and Eui-Nam Huh, "An Efficient Model for Smart Home by the Virtualization of Wireless Sensor Network", International Journal of Distributed Sensor Networks, vol. 2013, Article ID 168735, 10 pages, 2013. [**ISI Indexed, Impact Factor: 1.614**] 25. **Motaharul Islam** , Mohammad Mehedi Hassan, Ga-Won Lee and Eui-Nam Huh, "A Survey on Virtualization of Wireless Sensor Networks", Sensors, vol.12, no. 2: pp. 2175-2207, 2012. [**ISI Indexed, Impact Factor: 3.302**] 26. **Motaharul Islam** , Eui-Nam Huh "Virtualization in Wireless Sensor Network: Challenges and Opportunities", Journal of Networks, Academy Publisher, Volume 7, No. 3, ISSN 1796-217X. March 2012. [**SCOPUS Indexed**] 27. **Motaharul Islam** , Eui-Nam Huh, "A Novel Addressing Scheme for PMIPv6 Based Global IP-WSNs", Sensors, vol.11, no. 9, pp. 8430-8455, 2011. [**ISI Indexed, Impact Factor: 3.302**] 28. **Motaharul Islam** , Eui-Nam Huh, "Sensor Proxy Mobile IPv6 (SPMIPv6)-A Novel Scheme for Mobility Supported IP-WSNs", Sensors, vol. 11, no. 2, pp. 1865-1887, 2011 [**ISI Indexed, Impact Factor: 3.302**] 29. Muhammad Nazrul Islam, Mohsin Ali1, Ali Al-Mamun, and **Motaharul Islam** "Semiotics Explorations on Designing the Information Intensive Web Interfaces", International Arab Journal of Information Technology (IAJIT), Vol. 7, No. 1, January 2010, [**ISI Indexed, Impact Factor: 0.724**] 30. Ali-Al-Mamun, **Md. Motaharul Islam** , S.M. Mashihure Romman and A.H. Salah Uddin Ahmad "Performance Evaluation of Several efficient RSA Variants", International Journal of Computer Science and Network Security (IJCNS), Vol.8, No.7, July 2008. **[Indexed Web of Science]** 31. Muhammad Mizanur Rahman, Md. Ali-Al-Mamun, **Motaharul Islam** and Ibrahim K. Tabash "Study on the coordinator election algorithms in Wireless Personal Area Network", International Journal of Engineering and Technology, Issue 3, December 2007. 32. Rahman, M.R., **Islam, M.M.**, Pritom, A.I. and Alsaawy, Y., 2021. ASRPH: application specific routing protocol for health care. Computer Networks, 197, p.108273. [Scopus Indexed, Impact Factor: 5.493, Q1]

Conference Papers 1. Mushfikur Talukdar, Naim Ahmed, Md. Sajedul Islam Sajib , Umme Sumaya Ali, Md. Jubayer and Md.

Motaharul Islam, â€œIoT-based Smart Supply Chain Management System for Agricultural Goodsâ€ In 3rd International Conference on Advanced Communication and Intelligent Systems (ICACIS 2024), May 16-17, 2024, Jawaharlal Nehru University, New Delhi, India. 2. Moakhirul Mahmood, **Motaharul Islam** , â€œSelf-Poisoning Network to Prevent Reconnaissance by Generative Artificial Intelligenceâ€, In the International Conference on Deep Learning and Visual Artificial Intelligence (ICDLAI-2024) on 16-17 March, 2024. 3. Niful Islam, Md Mehedi Hasan Jony, Emam Hasan, Sunny Sutradhar, Atikur Rahman, and **Md Motaharul Islam**. â€œEWasteNet: A Two-Stream Data Efficient Image Transformer Approach for E-Waste Classification.â€ In 2023 IEEE 8th International Conference On Software Engineering and Computer Systems (ICSECS), pp. 435-440. IEEE, 2023. 4. Swapnil Biswas, Md. Shakil Ahmed, Md. Jobayer Rahman, Anika Khaer and **Motaharul Islam** , â€œA Machine Learning Approach for Predicting Efficient CPU Scheduling Algorithmâ€ 5th International Conference on Sustainable Technologies for Industry 5.0 (STI), 9-10 December 2023, Dhaka, Bangladesh. [**Scopus Indexed**] 5. Zaheed Ahmed Bhuiyan, A B M Ahasan Ullah, Md. Moinul Hasan Khan, Shamsher Morshed and **Motaharul Islam** , â€œAn Empirical Research Towards the State of Transition from IPv4 to IPv6â€ 5th International Conference on Sustainable Technologies for Industry 5.0 (STI), 9-10 December 2023, Dhaka, Bangladesh. [**Scopus Indexed**] 6. Md Mehefujur Rahman Mubin, Sajjad Ullah, James Anthony Purification and **Motaharul Islam** , â€œEnergy aware scheduling and resource allocation for Virtual Machinesâ€, 5th International Conference on Sustainable Technologies for Industry 5.0 (STI), 9-10 December 2023, Dhaka, Bangladesh. [**Scopus Indexed**] 7. Anam Ibn Jafar, Indrani Sarker, Nusrat Kabir Nuha, Sadia Rahman, Niloya Roy, Tahmina Aktar, Md. Tarifuzzaman and **Motaharul Islam** , â€œOptimizing E-waste Recycling Through Categorizationâ€, 5th International Conference on Sustainable Technologies for Industry 5.0 (STI), 9-10 December 2023, Dhaka, Bangladesh. [**Scopus Indexed**] 8. Meherab Hossain, Juton Acherjay, Md. Yousuf, A K M Monir Hossain, Sadab Uz Zaman, Sheikh Mahfouz Alam and **Motaharul Islam** , â€œTransforming Bottles into Threads: A Green Approach to Sustainable Fashionâ€, 5th International Conference on Sustainable Technologies for Industry 5.0 (STI), 9-10 December 2023, Dhaka, Bangladesh. [**Scopus Indexed**] 9. Iffat Binte Sorowar, Mahabub Alam Shawon, Debarzun Mozumder, Junied Hossain, **Motaharul Islam** , â€œDesign and Functional Implementation of Green Data Centerâ€, International Conference on IoT Based Control Networks and Intelligent Systems ICICNIS 2023,21-22, June 2023. [**Scopus Indexed**] 10. Rezmah Jemima Rupin, Imran Hasan, Md. Rakibul Haque Ontor, Rownak Jahan, **Motaharul Islam** , â€œDirt Identification and Removal Based on Non-Contact Infrared Temperature Sensor on Solar Panelâ€, International Conference on IoT Based Control 11. Syed Ishtiak Rahman, Md. Tahalil Azim, Md. Fardin Hossain, Sultan Mahmud, Shagufta Sajid, **Motaharul Islam** , â€œGreen IoT Based Automated door Hydroponics Farming Systemâ€, International Conference on IoT Based Control Networks and Intelligent Systems ICICNIS 2023,21-22, June 2023. [**Scopus Indexed**] 12. **Motaharul Islam** and Talukder Nafiz Ahmed, â€œA Greener Campus: Reusing Water, Reducing Waste and Protecting the Environmentâ€, SSRN Conference Proceedings Submission:IN4OBE Global Virtual Summit 2022 Transforming Education & Empowering Learners. [**Scopus Indexed**] 13. Azizul Islam Nayem, Umme Aimon Bristy, Shabrina Airen Esha and **Motaharul Islam** , â€œApproaches to E-Waste Reduction through 4R, Public Awareness, and Design for Sustainabilityâ€, SSRN Conference Proceedings Submission:IN4OBE Global Virtual Summit 2022 Transforming Education & Empowering Learners. [**Scopus Indexed**] 14. Tazkia Tasnim Bahar Audry, Puja Ghosh, Sumaiya Akter and Arnisha Akter, and **Motaharul Islam** , â€œAnalyzing Malware from System Calls by using Machine Learningâ€, 8th International Congress on Information and Communication Technology (ICICT 2023), United Kingdom, 2023. 15. Jubaer Ahmad, Tahsin Elahi Navin, Fahim Al Awsaf, Md. Yasir Arafat, Md. Shahadat Hossain and **Motaharul Islam** , â€œDistributed Training of Large Scale Deep Learning Models in Commodity Hardwareâ€ 7thInternational Conference on Inventive Systems and Control (ICISC), Coimbatore, India, January 30 -31, 2023. 16. Shawpnil, S. Nayeem, F. Hossain, A. Dayan and **M. M. Islam** , â€œEasyE-waste: A Novel Approach Towards Efficient and Sustainable E-waste Management,â€ 2023 6th Springer International Conference on Intelligent Sustainable Systems (ICISS), SCAD College of Engineering and Technology, Tirunelveli, India. 17. Abdullah Al Mamun, Sadman Sakib, **Motaharul Islam** , â€œE-Waste Separation Using YOLOv5 and IoTâ€ 6th International Conference on Sustainable Development(ICSD), Dhaka, Bangldesh, February 19-20, 2023. 18. Anas Mashad Chowdhury, Farhee Aalina Ahmed, Rajeet Hossain, Jannatul Ferdous, and **Motaharul Islam** , â€œE-Waste recycling for Sustainability and Commerceâ€ 25th International Conference on Information and Communication Technology, December, 17-18, 2022. 19. Shakil Ahmed, Swapnil Biswas, Md. Jobayer Rahman, Md. Habibur Rahman Al Ahadi, Rifat Ara Moon, and **Md. Motaharul Islam** â€œMachine Learning for Load Forecasting in a Green Data Centerâ€, 4th International Conference on Sustainable Technologies for Industry, 17-18 December, 2022, Dhaka, Bangladesh. 20. Nusaiba Zaman, Rushali Sharif Uddin, **Motaharul Islam** â€œCross-layer Architecture for Energy Optimization of Edge Computingâ€, International Conference on Machine Intelligence and Emerging Technologies 2022 (MIET), September 23-25, 2022, NUST, Bangladesh. 21. Wahid Anwar, **Md Motaharul Islam** , â€œIoT based decision making of irrigation and fertilizer management for marginal farmers in Bangladeshâ€ International Conference on 4th Industrial Revolution, December 10-11, 2021, Dhaka, Bangladesh. 22. Razoan Ahmed, **Md Motaharul Islam** , â€œA Comparative Analysis of AWS Cloud Native Application Deployment Modelâ€ International Conference on 4th Industrial Revolution, December 10-11, 2021, Dhaka, Bangladesh. 23. Zaheer Khan Hussainkhel, **Md Motaharul Islam** , â€œIntegration of Fog Computing to Internet of Things for Smart Sensitive Devicesâ€, International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC-2021), 17-18 December, 2021, India. 24. Shihab Hossain, Iftekhar Hyder, Ishmam Ahmed Alvi, Asma Binte Abu Bokor, Tanzim Ahmed, Montasir Billah, and **Md. Motaharul Islam** , â€œDocBook: Online Interactive Health-Care Systemâ€, 3rd International Conference on Sustainable Technologies for Industry 4.0 (STI), 18-19 December 2021, Dhaka, Bangladesh. 25. Sadequl Islam, Md. Shahed Hasan, Animesh Chandra Pandit Antu, **Motaharul Islam** , Faqueer Tanvir Ahmed, â€œPrototype Design and Development of a Smart Homeâ€ , Proc. of the 7th International

Conference on Engineering and Emerging Technologies (ICEET), 27-28 October 2021, Istanbul, Turkey. 26. Mahmudul Hasan Sarker, Most. Ayesha Khatun Rima, Md. Abdur Rahman, A.B.M. Naveed Hossain, Noibedya Narayan Ray and **Motaharul Islam** , â€œA Comparative Approach of Error Detection and Correction for On-board Nano Satelliteâ€, International Conference on Sustainable Computing (SUSCOM 2021), SCOPUS Indexed, March 19-20, 2021. 27. Kaviul Hossain, Mutasimur Rahman, Azrin Hossain and **Md. Motaharul Islam** â€œConsolidating Virtual Machines by using Ant Colony System Algorithm for Green Cloud Computingâ€, International Conference on Emerging Technology in Computing, Communication and Electronics, December 21-22, 2020. 28. Shah Muhammad Jannatul Hasan, Mohammad Ali, Taufiqul Islam Khan, Farzana Afrin and **Motaharul Islam** , â€œ6LoWPAN Based Futuristic Smart Architecture for Home Automationâ€ 2nd International Conference on Advanced Information and Communication Technology 2020 (ICAICT 2020), November 28-29, 2020. 29. Rafsan Al Mamun, **Motaharul Islam** , Rabana Tajrin, Nabiha Noor, Shafinaz Qader, â€œError Detection And Correction For Onboard Satellite Computers Using Hamming Codeâ€ 14th International Conference on Satellite and Space Communications, August 27-28, 2020, Paris, France. [**Best Presentation Award**] 30. Farhan Fuad Rupom and **Motaharul Islam** et al. , â€œEMG Controlled Bionic Robotic Arm using Artificial Intelligence and Machine Learningâ€ in IEEE TENSYMP, June 5-7, 2020, Dhaka, Bangladesh. 31. **Motaharul Islam** and Ibna Kowsar et al. , â€œAn Algorithmic Approach to Driver Drowsiness Detection for Ensuring Safety in an Autonomous Carâ€ in IEEE TENSYMP, June 5-7, 2020, Dhaka, Bangladesh. 32. **Motaharul Islam** and Mekhala Maryam et al., â€œDesign and Implementation of a Smart Bike Accident Detection Systemâ€ in IEEE TENSYMP, June 5-7, 2020, Dhaka, Bangladesh. 33. Omar Hasan, Khandakar Razoan, **Md. Motaharul Islam** , â€œParking Recommender System using Q-Learning and Cloud Computingâ€, 2nd International Conference on Cyber Security and Computer Science (ICONCS 2020), February 15-16, 2020. 34. Faed Ahmed Arnob, Md. Azmol Fuad, Abu Tahir Nizam, Shuvajit Barua, Ahnaf Atef Choudhury and **Motaharul Islam,** â€œAn Intelligent Traffic System for Detecting Lane Based Rule Violationâ€ International Conference on Advances in the Emerging Computing Technologies, Islamic University of Madinah, Madinah, Saudi Arabia, February 10-12, 2020. 35. M. Faiaz Mursalin, Meherin Hossain Nushra, Quazi Ashikur Rahman, Nashita Binte Asad, Miah Mohammad Asif Syeed and **Md. Motaharul Islam** , â€œSmart Car Parking with the Assistance of Line following Robotâ€ International Conference on sustainable technologies for industry 4.0, Dhaka, Bangladesh, December 24-25, 2019. 36. Omar Hasan, **Md. Motaharul Islam** , et. al. â€œSmart Parking Model based on Internet of Things (IoT) and TensorFlowâ€ 7th International Conference on Smart Computing and Communications, Curtin University, Miri, Sarawak, Malaysia, June 27 to 29, 2019. 37. Rashedur Rahman, **Md. Motaharul Islam** , et. al. â€œApplication Specific Energy Aware and Reliable Routing Protocol for Wireless Sensor Networkâ€ 7th International Conference on Smart Computing and Communications, Curtin University, Miri, Sarawak, Malaysia, June 27 to 29, 2019. 38. Tanziar Rahman, **Md. Motaharul Islam** , â€œA Comparison of Machine Learning Algorithms to Estimate Effort in Varying Sized Softwareâ€ IEEE Region 10 Symposium (TenSymp 2019), Kolkata, India, 7-9 June, 2019. 39. **Motaharul Islam** , Zaheer Khan, Yazed Alsaawy â€œAn Implementation of Harmonizing Internet of Things in Cloudâ€, Sensor Grid Internet of Things (SGIoT), July 11-12, 2018, Niagara Falls, Canada. 40. Rifat Rahman, Mohammad Raihan Kabir, **Motaharul Islam** and Eui-Nam Huh â€œCellular Cross-layer Intrusion Detection and Responseâ€ Third International Conference on Advances in Information Processing and Communication Technology (IPCT) 2015, December 11-13, 2015, Rome, Italy. 41. Al Amin Hossain, **Motaharul Islam** and Eui-Nam Huh â€œShear-based Spatial Transformation to Protect Proximity Attack of Cloud Dataâ€ The 2013 International Conference on ICT for Smart Society (ICISS), June 13th-14th, 2013, Jakarta, Indonesia. 42. **Motaharul Islam** , Pham Phuoc Hung, Al Amin Hossain, Mauricio Alejandro Gomez Morales and Eui-Nam Huh â€œA Framework of Smart Internet of Things based Cloud Computingâ€ Proc. of the 4th International Conference on Next Generation Information Technology, June 18-20, 2013, Jeju Island, Republic of Korea. 43. Pham Phuoc Hung, Al Amin Hossain, **Motaharul Islam** , Mauricio Alejandro Gomez Morales, Hyun-Woo Lee, Eui-Nam Huh, â€œAn Innovative Proposal for Data Distribution Optimization in Cloud Computingâ€ Proc. of the 4th International Conference on Information Science and Applications, June 24-26, 2013, Thailand. 44. Mauricio Alejandro Gomez Morales, Pham Phuoc Hung, **Motaharul Islam** , Seung-Bae Yang, Eui-Nam Huh â€œScalable Cloud for Urgent Massive Email Deliveryâ€ Proc. of the 4th International Conference on Information Science and Applications, June 24-26, 2013, Thailand. 45. **Motaharul Islam** , Eui-Nam Huh â€œVirtualization of Wireless Sensor Network: Smart House perspectiveâ€, The Third International Conference Ubiquitous Computing and Multimedia Applications (UCMA), Bali Island, Indonesia, June 28-30, 2012. 46. **Motaharul Islam** , Md. Sabbir Hasan, Eui-Nam Huh â€œAn adaptation layer over IEEE 802.15.6 for Global WBAN Communicationâ€, International Conference on Information technology, 2012 International Exposition, Yeosu, South Korea, April, 2012. 47. Sabbir Hasan, **Md. 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