

List of Publications
Dr. Md. Rashedul Islam

Publications (Summary):

Total number of publications: 106

International Journals (47): 2025(4), 2024 (5), 2023(2), 2022(4), 2021(4), 2020(5), 2019(4),
2018(1), 2017(3), 2016(6), 2015(1), 2014(3), 2012(1), 2011(3), 2010(1)

Int. Conferences (51): 2025 (4) 2024(1), 2023(3), 2022(1), 2021(5), 2020(4), 2019(5),
2018(7), 2017(7), 2016(1), 2015(2), 2014(6), 2009(3), 2006(2)

Korean Conferences (3): 2014(2), 2013(1)

Book/Book Chapter (5): 2025(1), 2017(1) 2016(2) 2015(1)

Publications in Journals:

- IEEE Transactions on Industrial Electronics: SCI, IF: 8.236, JCR=0.8%, Q1
- Nature Scientific reports, SCI, IF: 3.8, Q1
- IEEE Access: SCI, IF: 3.476, Q1
- Information Sciences: SCI, IF= 6.795, Q1
- Cancer: SCIE, IF= 6.639 Q1
- Biology: SCIE IF= 5.079
- Sensors: SCIE, IF=3.576, Q1
- Journal of Healthcare Engineering: SCIE, IF=3.822, Q2
- Multimedia Tools and Applications: SCIE, IF: 2.75, Q1
- Applied Science: SCIE, IF=2.679, Q1
- Journal of Sensors: SCIE, IF: 2.137, Q2
- Symmetry: SCIE, IF=2.645, Q2
- Shock and Vibration: SCIE, IF 1.543, Q2
- Ad Hoc & Sensor Wireless Networks: SCIE, IF=1.043, Q3

And others

Publications (details):

International Journal (47):

1. 2025: Md Shahin Alam Mozumder; Mohammad Balayet Hossain Sakil; Md Rokibul Hasan; Md Amit Hasan; K.M Nafiur Rahman Fuad; M. F. Mridha, Md Rashedul Islam, Yutaka Watanobe, "Hybrid Contrastive Learning with Attention-Based Neural Networks for Robust Fraud Detection in Digital Payment Systems", IEEE Open Journal of the Computer Society, (SCI, IF=8.2, Q1)
2. 2025: Arindam Kishor Biswas, Md Anisur Rahman, Md Nazmul Hossain Mir, Ashifur Rahman, M. F. Mridha, **Md Rashedul Islam**, and Yutaka Watanobe, "A Dual Output Temporal Convolutional Network with Attention Architecture for Stock Price Prediction and Risk Assessment", IEEE Access, vol. 11, pp. 79697-79709, 2023 (SCI, IF=3.476, Q1)
3. 2025: MD AL Rafi, Gourab Nicholas Rodrigues, MD Nazmul Hossain Mir, MD Shahriar, Mahmud Bhuiyan, M. F. Mridha, **MD Rashedul Islam**, Yutaka Watanobe, "A Hybrid Temporal Convolutional Network and Transformer Model for Accurate and

- Scalable Sales Forecasting," in IEEE Open Journal of the Computer Society, vol. 6, pp. 380-391, 2025 (SCI, IF=5.7, Q1)
4. 2025: Gazi Mohammad Imdadul Alam, Sharia Arfin Tanim, Sumit Kanti Sarker, Yutaka Watanobe, **Md Rashedul Islam***, M. F. Mridha, and Kamruddin Nur*, Deep Learning Model Based Prediction of Vehicle CO2 Emissions with eXplainable AI Integration for Sustainable Environment," **Nature scientific reports, Accepted (SCI, IF=3.8, Q1)**
 5. 2024: Afia Tasnim, Baivab Das, Md. Rajibul Islam, Md Amiruzzaman, **Md. Rashedul Islam & Nadeem Ahmed**, "Revolutionizing Rose Grading: Real-Time Detection and Accurate Assessment with YOLOv8 and Deep Learning Models", Springer Nature (SR) Computer Science, Volume 6, article number 8, (2025).(SCI, IF=3.1, Q2)
 6. 2024: Md Abrar Jahin, Md Sakib Hossain Shovon, M. F. Mridha*, **Md Rashedul Islam*** & Yutaka Watanobe, "A hybrid transformer and attention based recurrent neural network for robust and interpretable sentiment analysis of tweets." **Nature scientific reports**, 14, 24882 (2024) (SCI, IF=3.8, Q1)
 7. 2024: Khan MD Hasib, M.F. Mridha, MD Humaion Kabir, Kazi Omar Faruk, Rabeya Khatun Muna, Shariful Iqbal, **Md Rashedul Islam***; Yutaka Watanobe, "DCNN: Deep Convolutional Neural Network with XAI for Efficient Detection of Specific Language Impairment in Children", in **IEEE Access**, vol. 12, pp. 101660-101678, 2024 (SCI, IF=3.476, Q1)
 8. 2024: Nadeem Ahmed, Md Obaydullah Al Numan, Raihan Kabir, **Md Rashedul Islam***, and Yutaka Watanobe, "A Robust Deep Feature Extraction Method for Human Activity Recognition Using a Wavelet Based Spectral Visualization Technique", **Special Issue Human Activity Recognition Using Sensors and Machine Learning: 2nd Edition**, Sensors 2024, 24(13), 4343 (SCIE, IF=3.4, Q1)
 9. 2024, Raihan Kabir, Yutaka Watanobe*, **Md Rashedul Islam**, and Keitaro Naruse, Enhanced Robot Motion Block of A-Star Algorithm for Robotic Path Planning, Sensors 2024, 24(5), 1422 (SCIE, IF=3.576, Q1)
 10. 2023: Ashfia Jannat Keya; Md Mohsin Kabir; Nusrat Jahan Shammey; M. F. Mridha; **Md Rashedul Islam***; Yutaka Watanobe, "G-BERT: An Efficient Method for Identifying Hate Speech in Bengali Texts on Social Media", in **IEEE Access**, vol. 11, pp. 79697-79709, 2023 (SCI, IF=3.476, Q1)
 11. 2023: M. F. Mridha, Zabir Mohammad, Muhammad Mohsin Kabir, Aklima Akter Lima, Sujoy Chandra Das, **Md Rashedul Islam***, Yutaka Watanobe, "An Unsupervised Writer Identification Based on Generating Clusterable Embeddings", Computer Systems Science and Engineering 2023, 46(2), 2059-2073, (SCIE, IF=4.397, Q2)
 12. 2022: M. F. Mridha, Akibur Rahman Prodeep, A. S. M. Morshedul Hoque, **Md. Rashedul Islam**, Aklima Akter Lima, Muhammad Mohsin Kabir, Md. Abdul Hamid, Yutaka Watanobe, "A Comprehensive Survey on the Progress, Process, and Challenges of Lung Cancer Detection and Classification", Journal of Healthcare Engineering, vol. 2022, Article ID 5905230, 43 pages, 2022. (SCIE, IF=3.822, Q2)
 13. 2022: **Md Rashedul Islam**, Aklima Akter Lima, Sujoy Chandra Das, M. F. Mridha, Akibur Rahman Prodeep, Yutaka Watanobe, "A Comprehensive Survey on the Process, Methods, Evaluation, and Challenges of Feature Selection," in **IEEE Access**,

- vol. 10, pp. 99595-99632, 2022, doi: 10.1109/ACCESS.2022.3205618. (SCL, IF=3.476, Q1)
14. 2022: Lima, Aklima A., M. F. Mridha, Sujoy C. Das, Muhammad M. Kabir, **Md. Rashedul Islam***, and Yutaka Watanobe. 2022. "A Comprehensive Survey on the Detection, Classification, and Challenges of Neurological Disorders" *Biology* 11, no. 3: 469. (SCIE, IF=5.079, Q1)
15. 2022: Raihan Kabir, Yutaka Watanobe, **Md Rashedul Islam**, Naruse, K.; Md Mostafizur Rahman, Unknown Object Detection Using a One-Class Support Vector Machine for a Cloud–Robot System. *Sensors* 2022, 22, 1352 (SCIE, IF=3.576, Q1)
16. 2021: Muhammad Firoz Mridh, Md. Abdul Hamid, Muhammad Mostafa Monowar, Ashfia Jannat Keya, Abu Quwsar Ohi, **Md. Rashedul Islam** and Jong-Myon Kim 4,* "A Comprehensive Survey on Deep-Learning-Based Breast Cancer Diagnosis." *Cancers*. 2021; 13(23):6116. (SCIE IF=6.639, Q1)
17. 2021: Muhammad F. Mridha, Abu Q. Ohi, Muhammad M. Monowar, Md. A. Hamid, **Md. Rashedul Islam***, and Yutaka Watanobe "U-Vectors: Generating Clusterable Speaker Embedding from Unlabeled Data" *Applied Sciences* 11, no. 21: 10079 (SCIE IF=2.679, Q2).
18. 2021: Nasima Begum, Md Azim Hossain Akash, Sayma Rahman, Jungpil Shin, **Md Rashedul Islam***, and Md Ezharul Islam*, "User Authentication Based on Handwriting Analysis of Pen-Tablet Sensor Data Using Optimal Feature Selection Model", *Future Internet* 2021, 13(9), 231 (ESCI, Q2)
19. 2021 (Survey Article): M. F. Mridha, Sujoy Chandra Das, Muhammad Mohsin Kabir, Aklima Akter Lima, **Md. Rashedul Islam*** and Yutaka Watanobe, "Brain-Computer Interface: Advancement and Challenges", *Sensors* 2021, 21(17), 5746 (SCIE, IF=3.576, Q1)
20. 2020: Rasel Bhuiyan, Nadeem Ahmed, Md Amiruzzaman *, **MD Rashedul Islam***, A Robust Feature Extraction Model for Human Activity Characterization using 3-axis Accelerometer and Gyroscope Data, *Sensors* 2020, 20, 6990. (SCIE, IF=3.275, Q1)
21. 2020: **MD Rashedul Islam**, Md Amiruzzaman, Shahriar Nasim, Jungpil Shin, "Smoke Object Segmentation and the Dynamic Growth Feature Model for Video-Based Smoke Detection Systems" *Symmetry* 2020, vol. 12(7), no. 1075, 30 June 2020 (SCIE, IF=2.645, Q2)
22. 2020: Jungpil Shin; Md Abdur Rahim; **Md Rashedul Islam**; Keun Soo Yun, "A novel approach of cursive signature generation for personal identity", *International Journal of Computer Applications in Technology*, vol. 62, no. 4, pp. , 21 May 2020 (SCOPUS)
23. 2020: Nadeem Ahmed, Jahin Ibna Rafiq, **Md Rashedul Islam***, "Enhanced Human Activity Recognition Based on Smartphone Sensor Data Using Hybrid Feature Selection Model", *Sensors* 2020, 20, 317. (SCIE, IF=3.275, Q1)
24. 2020: Md Abdur Rahim, Jungpil Shin, **Md. Rashedul Islam**, "Hand Gesture Recognition-Based Non-Touch Character Writing System on a Virtual Keyboard", *Multimedia Tools and Applications* (2020) doi:10.1007/s11042-019-08448-6 (SCIE, IF=2.101, Q1).
25. 2019: Md Abdur Rhaim, Jungpil Shin, **Md Rashedul Islam**, "Gestural Flick Input-Based Nontouch Interface for Character Input", *The Visual Computer (TVCJ)*, pp. 1-14, 2019 (SCIE, IF=1.415, Q2).

26. **2019:** Md Abdur Rhaim, **Md Rashedul Islam**, Jungpil Shin, “Non-touch Sign Word Recognition Based on Dynamic Hand Gesture using Hybrid Segmentation and CNN Feature Fusion”, **Applied Science**, 2019, 9(18), 3790. **(SCIE, IF=2.217, Q1)**.
27. **2019:** **MD Rashedul Islam**, Young-Hun Kim, Jaeyoung Kim, Jong–Myon Kim *, “Detecting and Learning Unknown Fault States by Automatically Finding the Optimal Number of Clusters for Online Bearing Fault Diagnosis”, **Applied Science**, 2019, 9(11), 2326. **(SCIE, IF=2.679, Q1)**.
28. **2019:** Jungpil Shin, **Md Rashedul Islam**, Md Abdur Rhaim, Hyung-Jin Mun, “Arm Movement Activity Based User Authentication in P2P Systems”, **Peer-to-Peer Networking and Applications**, 2019, <https://doi.org/10.1007/s12083-019-00775-7>. **(SCIE, IF=2.397, Q2)**.
29. **2018:** **Rashedul Islam**, Jia Uddin, Jong-Myon Kim, “Texture Analysis Based Feature Extraction Using Gabor Filter and SVD for Reliable Fault diagnosis of an Induction Motor”, **International Journal of Information Technology and Management (IJITM)**, Vol. 17, No. 1/2, PP. 20-32, Jan-2018, **(SCOPUS, Q4)**
30. **2017:** Dileep K. Appana, **Rashedul Islam**, Sheraz A. Khan, Jong-Myon Kim, A video-based smoke detection using smoke flow pattern and spatial-temporal energy analyses for alarm systems, **Information Sciences**, Volumes 418–419, December 2017, Pages 91-101, ISSN 0020-0255. **(SCI, IF= 6.795, Q1)**
31. **2017:** Manjurul Islam, **Rashedul Islam** and Jong-Myon Kim, “A Hybrid feature selection scheme based on local compactness and global separability for improving roller bearing diagnostic performance”, **Artificial Life and Computational Intelligence**, Volume 10142 of the series Lecture Notes in Computer Science (LNCS) pp 180-192.
32. **2017:** Dileep Appana, **Rashedul Islam** and Jong-Myon Kim, “Reliable Fault Diagnosis of Bearings Using Distance and Density Similarity on an Enhanced k-NN”, **Artificial Life and Computational Intelligence**, Volume 10142 of the series Lecture Notes in Computer Science (LNCS) pp 193-203.
33. **2016:** **Md. Rashedul Islam**, Islam, J. Uddin, J.-M. Kim, "Acoustic Emission Sensor Network Based Fault Diagnosis of Induction Motors Using a Gabor Filter and Multiclass Support Vector Machines," **Ad Hoc & Sensor Wireless Networks (AHSWN)**, Vol. 34, pp. 273-287, Dec. 2016. **(SCIE, IF=1.043, Q3)**
34. 2016: Md. Sharif Uddin, **Rashedul Islam**, Sheraz Ali Khan, Jaeyoung Kim, Jong-Myon Kim, Seok-Man Sohn and ByeongKeun Choi, “Distance and Density Similarity Based Enhanced k-NN Classifier for Improving Fault Diagnosis Performance of Bearings”, **Shock and Vibration**, vol. 2016, Article ID 3843192, 11 pages, Oct 2016. doi:10.1155/2016/3843192 **(SCIE, IF 1.543, Q2)**
35. **2016:** **Md. Rashedul Islam**, Md. Sharif Uddin, Sheraz Khan, Jong-Myon Kim, and CheolHong Kim, “Multi-core Accelerated Discriminant Feature Selection for Real-time Bearing Fault Diagnosis”, **Trends in Applied Knowledge-Based Systems and Data Science, LNCS**, vol. 9799, pp 645-656.
36. **2016:** Myeongsu Kang, **Rashedul Islam**, JaeYoung Kim, Jong-Myon Kim, Michael Pecht, “A Hybrid Feature Selection Scheme for Reducing Diagnostic Performance Deterioration Caused by Outliers in Data-Driven Diagnostics”, **IEEE Transactions on Industrial Electronics (TIE)**, VOL. 63, NO. 5, MAY 2016, **(ISI-SCL, IF: 8.236, ICR=0.8%, Q1)**

37. **2016:** Jia Uddin, **Md. Rashedul Islam**, Jong-Myon Kim, “A Two Dimensional Fault Diagnosis Model of Induction Motors using Gabor Filter on Segmented Images”, International Journal of Control and Automation, Vol. 9, No. 1, January 2016, **(SCOPUS, Q4)**
38. **2016:** **Rashedul Islam**, Sheraz Ali Khan, and Jongmyon Kim, “Discriminant feature distribution analysis-based hybrid feature selection for online bearing fault diagnosis in induction motors”, **Journal of Sensors**, vol. 2016, pp. 1-16, 2016, Article ID 7145715, **(SCIE, IF: 2.137, Q2)**
39. **2015:** **Md. Rashedul Islam**, Jong-Myon Kim, A Centroid-GPS Model to Improving Positioning Accuracy for a Sensitive Location-Based System, Lecture Notes in Electrical Engineering Volume 331, 2015, pp 187-196, Mar 05 2015. **(SCOPUS)**
40. **2014:** Myeongsu Kang, Shohidul Islam, **Rashedul Islam**, and Jong-Myon Kim, “Accelerating the formant synthesis of haegeum sounds using a general-purpose graphics processing unit”, **Multimedia Tools and Applications**, Springer, October, 2014, DOI 10.1007/s11042-014-2297-3. **(SCIE, IF: 2.75, Q1)**
41. **2014:** Jia Uddin, **Rashedul Islam**, and Jong-Myon Kim, “Texture Feature Extraction Techniques for Fault Diagnosis of Induction Motors”, Journal of Convergence, vol. 5, no. 2, pp. 15-20 June 2014
42. **2014:** **Md. Rashedul Islam**, Jong-Myon Kim, “An Effective Approach to Improving Low-Cost GPS Positioning Accuracy in Real Time Navigation”, **The Scientific World Journal**, vol-2014 pp-1-8, June 2014, Article ID 671494, doi:10.1155/2014/671494 **(SCIE, IF: 1.73 (2014), Q2)**
43. **2012:** **Md. Rashedul Islam**, Alope Kumar Shah, Md. Rofiqul Islam, “Experimental Evaluation of parallelism in real time execution”, Research Notes in Information Science (ISSN: 2093-1956). Vol.10, October 2012
44. **2011:** Md. Shafiul Azam, **Md. Rashedul Islam**, Md. Omar Faruqe, “Determination of the Traveling Speed of a Moving Object of a Video Using Background Extraction and Region Based Segmentation”, International Journal of Computer Science and Information Security(IJCSIS), Vol. 9, No. 4, April 2011, ISSN 1947-5500, USA
45. **2011:** **Md. Rashedul Islam**, Md. Rofiqul Islam, Md. Shariful Alam, Md. Shafiul Azam “Experiences and comparison study of EPC & UML for Business Process & IS Modeling ”, International Journal of Computer Science and Information Security (IJCSIS) Volume 9 No. 3, March 2011, page-125-133, ISSN: 1947-5500, USA
46. **2011:** Md. Shariful Alam , **Md. Rashedul Islam** , Md. Rofiqul Islam “Organizational improvement using Organizational paradigms with the support of people paradigms”, International Journal on Computer Science and Engineering (IJCSE), Vol. 3, Issue 2, 2011, ISSN : 0975-3397, India.
47. **2010:** **Md. Rashedul Islam**, Md. Rofiqul Islam, Tohidul Arafhin Mazumder “Mobile Application and Its Global Impact”, International Journal of Engineering & Technology”, International Journal of Engineering & Technology IJET-IJENS Vol. 10 Issue. 06, December 2010, ISSN: 2077-1185, Pakistan. **(SCOPUS)**

International Conference (51):

1. 2025: Osim Kumar Pal, Fahmid Al Farid, M. F. Mridha, Raihan Kabir, Md Rashedul Islam, and Hezerul Abdul Karim, “SkinPalNet: An Advanced Ensemble Model for Skin

- Cancer Diagnosis with Computer Vision Approach”, *Advances and Trends in Artificial Intelligence. Theory and Applications. IEA/AIE 2025. Lecture Notes in Computer Science()*, vol 15706. Springer, Singapore.
2. 2025: Raihan Kabir, Keitaro Naruse, Md Rashedul Islam, and Dake Ding, “Robotic Path Optimization for Efficient Robot Movement in Harsh Environments”, *Advances and Trends in Artificial Intelligence. Theory and Applications. IEA/AIE 2025. Lecture Notes in Computer Science*, vol 15706. Springer, Singapore.
 3. 2025: Md Obaydullah Al Numan , Raihan Kabir , Md Rashedul Islam , and Yutaka Watanobe, “A Hybrid Approach for Path Planning in Harsh Environments Combining WOA and DMSGPSO”, *Advances and Trends in Artificial Intelligence. Theory and Applications. IEA/AIE 2025. Lecture Notes in Computer Science*, vol 15706. Springer, Singapore.
 4. 2025: Md. Abrar Jahin, Shahriar Soudeep, Fahmid Al Farid, M. F. Mridha, Raihan Kabir, Md. Rashedul Islam, and Hezerul Abdul Karim, “CAGN-GAT Fusion: A Hybrid Contrastive Attentive Graph Neural Network for Network Intrusion Detection”, *Advances and Trends in Artificial Intelligence. Theory and Applications. IEA/AIE 2025. Lecture Notes in Computer Science*, vol 15706. Springer, Singapore.
 5. 2024: Shamima Sultana, Taimur Rahman, Halima Khatun, Nayeema Sultana, **Md Rashedul Islam**, Nadeem Ahmed, “Bayesian and Genetic Optimization for Human Activity Recognition with CNN and LSTM”, *International Conference on Intelligent and Innovative Practices in Engineering & Management IIPEM 2024*.
 6. 2023: S. A. Sibli, R. Kabir, N. Jannat, Y. Watanobe and **Md Rashed Islam**, "Optimal Channel Selection for EEG-Based Enhanced Brain Robot Interface for Autonomous Wheelchair," *2023 12th International Conference on Awareness Science and Technology (iCAST), Taichung, Taiwan, 2023*, pp. 185-191,
 7. 2023: R. Kabir, Y. Watanobe, **Md Rashedul Islam** and K. Naruse, "Service Point Searching for Disabled People using Wheelchair based Robotic Path Planning and ArUco Markers," *2022 IEEE 8th World Forum on Internet of Things (WF-IoT)*, Yokohama, Japan, 2022, pp. 1-7
 8. 2023: Md. Fahim; Md. Ekhtiar Uddin; Rizve Ahmed; **Md. Rashedul Islam**; Nadeem Ahmed, “A Machine Learning Based Analysis Between Climate Change and Human Health: A Correlational Study”, *2022 International Conference on Computer and Applications (ICCA)*, 20-22 December 2022, Cairo, Egypt (published 14 February 2023).
URL: <https://ieeexplore.ieee.org/document/10039484>
 9. 2022: Akhtar, S., Kasem, R., Linza, A., Das, M.C., **MD Rashedul Islam.**, Kobir, R. (2022). Mental Disability Detection of Children Using Handwriting Analysis. In: Islam, A.K.M.M., Uddin, J., Mansoor, N., Rahman, S., Al Masud, S.M.R. (eds) *Bangabandhu and Digital Bangladesh. ICBDB 2021. Communications in Computer and Information Science*, vol 1550. Springer
 10. **2021**: Raihan Kabir, Yutaka Watanobe, **Md Rashedul Islam** and Keitaro Naruse, “An Efficient Cloud Framework for Multi-robot System Management”, *The 20th International Conference on Intelligent Software Methodologies, Tools, and Techniques (SOMET 2021)*, September 21~23, 2021, Iwate, Japan. **Accepted**
 11. **2021**: Raihan Kabir, Yutaka Watanobe and **Md Rashedul Islam**, “A Cloud-based Robot Framework for Indoor Object Identification Using Unsupervised Segmentation

Technique and Convolution Neural Network (CNN)”, The 34th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE 2021), July 26 – July 29, 2021, Kuala Lumpur, Malaysia, Online: 19 July 2021

12. **2021:** Shammi Akhtar, Moumita Mehjabin Dipti, Tahasina Afroze Tinni, Pallab Khan, Raihan Kabir, **Md Rashedul Islam*** “Analysis on Handwriting Using Pen-Tablet for Identification of Person and Handedness”, 2021 International Conference on Information and Communication Technology for Sustainable Development (ICICT4SD), 27-28 February, 2021, Dhaka, Bangladesh.
13. **2021:** Rasel Ahmed Bhuiyan, Md Amiruzzaman, Nadeem Ahmed, and **MD Rashedul Islam***, “Efficient Frequency Domain Feature Extraction Model using EPS and LDA for Human Activity Recognition”, 3rd IEEE International Conference on Knowledge Innovation and Invention 2020 (IEEE ICKII 2020), Kaohsiung, Taiwan, August 21-23, 2020, Published: 18 Jan 2021
URL: <https://ieeexplore.ieee.org/abstract/document/9318786>
14. **2021:** Md Azim Hossain Akash; Nasima Begum; Sayma Rahman; Jungpil Shin; Md Amiruzzaman; **Md Rashedul Islam***, “User Authentication Through Pen Tablet Data Using Imputation and Flatten Function”, 3rd IEEE International Conference on Knowledge Innovation and Invention 2020 (IEEE ICKII 2020), Kaohsiung, Taiwan, August 21-23, 2020, Published: 18 Jan 2021
URL: <https://ieeexplore.ieee.org/document/9318975>
15. **2020:** Md Abdur Rahim, **Md Rashedul Islam**, Ui-Pil Chong, Jungpil Shin, “Hand movement activity based approach for virtual keyboard input”, 3rd Eurasian Conference on Educational Innovation 2020 (ECEI 2020), Hanoi, Vietnam
16. **2020:** Nuray Jannat, Sabbir Ahmed Sibli, Md. Anisur Rahaman Shuhag and **Md Rashedul Islam***, “EEG Motor Signal Analysis Based Enhanced Motor Activity Recognition Using Optimal Denoising Algorithm”, Proceedings of International Joint Conference on Computational Intelligence. IJCCI 2019. Algorithms for Intelligent Systems. Springer, pp 125-136, Dhaka, Bangladesh
URL: https://link.springer.com/chapter/10.1007/978-981-15-3607-6_10
17. **2020:** Raihan Kabir, Nabila Rahman, Salman Jahan, Md Rajibul Islam and **Md Rashedul Islam***. Discriminant Feature Extraction using Disease Segmentation for automatic Leaf Disease Diagnosis. In Proceedings International Conference on Computing Advancements (ICCA 2020). Article no. 32, Pages 1-7, doi: <https://doi.org/10.1145/3377049.3377100>, ACM
URL: <https://dl.acm.org/doi/abs/10.1145/3377049.3377100>
18. **2020:** Nadeem Ahmed, **Md Rashedul Islam**, Umme Kulsum, Md. Rajibul Islam, M. Ershadul Haque, Mohammad Shahriar Rahman, “Demographic Factors of Cybersecurity Awareness in Bangladesh”, 2019 5th International Conference on Advances in Electrical Engineering (ICAEE), 26-28 Sept. 2019, Dhaka, Bangladesh, Published 30 Jan 2020.
URL: <https://ieeexplore.ieee.org/document/8975603>
19. **2019:** Nadeem Ahmed, Raihan Kabir, Airin Rahman, Al Momin and **Md Rashedul Islam***, “Smartphone Sensor Based Physical Activity Identification by Using Hardware-Efficient Support Vector Machines for Multiclass Classification”, 2019 IEEE Eurasia Conference on IOT, Communication and Engineering (IEEE ECICE 2019), 3-6

Oct. 2019 Taiwan, Published 26 Dec 2019

URL: <https://ieeexplore.ieee.org/document/8942781>

20. **2019:** Raihan Kabir, Nadeem Ahmed, Niloy Roy, and **Md Rashedul Islam***, “A Novel Dynamic Hand Gesture and Movement Trajectory Recognition model for Non-Touch HRI Interface”, 2019 IEEE Eurasia Conference on IOT, Communication and Engineering (IEEE ECICE 2019), 3-6 Oct. 2019 Taiwan, Published 26 Dec 2019
URL: <https://ieeexplore.ieee.org/document/8942691>
21. **2019:** **Md Rashedul Islam**, Md Abdur Rahim, Md Rajibul Islam, and Jungpil Shin, “Genetic Algorithm Based Optimal Feature Selection Extracted by Time-frequency Analysis for Enhanced Sleep Disorder Diagnosis Using EEG Signal”, Intelligent Systems and Applications. IntelliSys 2019. Advances in Intelligent Systems and Computing, vol.1038, pp. 881-894, 2020 Springer (**SCOPUS**)
URL: https://link.springer.com/chapter/10.1007/978-3-030-29513-4_65
22. **2019:** Md Abdur Rahim, Jungpil Shin, **Md Rashedul Islam**, “Dynamic Hand Gesture Based Sign Word Recognition Using Convolutional Neural Network with Feature Fusion”, 2019 IEEE 2nd International Conference on Knowledge Innovation and Invention (ICKII), Seoul, Korea (South), 2019, pp. 221-224, doi: 10.1109/ICKII46306.2019.9042600., (**Best Paper Award**)
URL: <https://ieeexplore.ieee.org/abstract/document/9042600>
23. **2019:** Md. Atiqur Rahman, Most. Jannatul Ferdous, Md. Mamun Hossain, **Md Rashedul Islam**, Mohamed Hamada*, “A lossless speech signal compression technique”, 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT-2019), Bangladesh,
URL: <https://ieeexplore.ieee.org/document/8934484>
24. **2018:** **Md Rashedul Islam***, Rasel Ahmed Bhuiyan, Nadeem Ahmed and Md Rajibul Islam, “PCA and ICA Based Hybrid Dimension Reduction Model for Cardiac Arrhythmia Disease Diagnosis”, IEEE 10th International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment, and Management, Baguio, Philippines, 1st December, 2018.
URL: <https://ieeexplore.ieee.org/document/8666331>
25. **2018:** Md. Atiqur Rahman, Syed Islam, Jungpil Shin, **Md. Rashedul Islam**, “Histogram alternation based digital image compression using base-2 coding” 2018 Digital Image Computing: Techniques and Applications (DICTA), Canberra, Australia, 2018, pp. 1-8. doi: 10.1109/DICTA.2018.8615830
URL: <https://ieeexplore.ieee.org/document/8615830>
26. **2018:** **Md Rashedul Islam**, Md Abdur Rahim, Hafeza Akter, Raihan Kabir, Jungpil Shin, “Optimal IMF Selection of EMD for Sleep Disorder Diagnosis using EEG Signals”, In The 3rd International Conference on Applications in Information Technology (ICAIT’18), November 1–3, 2018, Aizu Wakamatsu, Japan. ACM, New York, NY, USA, Article 20, 6 pages. <https://doi.org/10.1145/3274856.3274876> (**Best Paper Award**)
URL: <https://dl.acm.org/doi/abs/10.1145/3274856.3274876>
27. **2018:** Md. Atiqur Rahman, M. M. Fazle Rabbi, Md. Mijanur Rahman, Md. Masudul Islam, **Md. Rashedul Islam*** “Histogram modification based lossy image compression scheme using Huffman coding”, 4th International Conference on Electrical Engineering and Information & Communication Technology (iCEEICT 2018), Dhaka, Bangladesh,

Sep 13-15, 2018.

URL: <https://ieeexplore.ieee.org/document/8628092>

28. 2018: Md Abdur Rahim, Jungpil Shin, and **Md Rashedul Islam** “Human Machine Interaction based on Hand Gesture Recognition using Skeleton Information of Kinect Sensor” In The 3rd International Conference on Applications in Information Technology (ICAIT’18), November 1–3, 2018, Aizu-Wakamatsu, Japan. ACM Conf., Article 4, 5 pages.
URL: <https://dl.acm.org/doi/10.1145/3274856.3274872>
29. 2018: **Md Rashedul Islam**, Rasel Ahmed Bhuiyan, Ummey Kulsum Mitu, Jungpil Shin, “Hand Gesture Feature Extraction using Deep Convolutional Neural Network for Recognizing American Sign Language”, 2018 4th International Conference on Frontiers of Signal Processing (ICFSP 2018), pp. 115-119, France Sep 2018.
URL: <https://ieeexplore.ieee.org/document/8552044>
30. 2018: Md. Atiqur Rahman, Jungpil Shin, Alope Kumar Saha, **Md. Rashedul Islam***, “A Novel Lossless Coding Technique for Image Compression”, 2018 Joint 7th International Conference on Informatics, Electronics & Vision (ICIEV) and 2018 2nd International Conference on Imaging, Vision & Pattern Recognition (icIVPR), Page 82-86, June 25-28, 2018 Japan.
URL: <https://ieeexplore.ieee.org/document/8641065>
31. 2017: Rasel Ahmed Bhuiyan, Abdul Kawsar Tushar, Akm Ashiquzzaman, Jungpil Shin and **Md Rashedul Islam***, “Reduction of Gesture Feature Dimension for Improving the Hand Gesture Recognition Performance of Numerical Sign Language”, 20th International Conference On Computer and Information Technology (ICCI 2017), December 22-24, Dhaka, Bangladesh.
URL: <https://ieeexplore.ieee.org/document/8281833>
32. 2017: Abdul Kawsar Tushar, Akm Ashiquzzaman, and **Md. Rashedul Islam***, “Faster Convergence and Reduction of Overfitting in Numerical Hand Sign Recognition using DCNN”, 5th IEEE Region 10 Humanitarian Technology conference 2017, Dec 21-23, Dhaka, Bangladesh (*Best Paper Award*)
URL: <https://ieeexplore.ieee.org/document/8289040>
33. 2017: Mohammad Sakib Mahmud, Mahbub Arab Majumder, Abdul Kawsar Tushar, Md. Mahtab Kamal, Akm Ashiquzzaman, and **Md. Rashedul Islam***, “Real-Time Feedback-Centric Nurse Calling System with Archive Monitoring using Raspberry Pi” , 2017 International Conference on Networking, Systems and Security (NSysS 2017), Dhaka, Bangladesh December 18-20, 2017
URL: <https://ieeexplore.ieee.org/document/8267799>
34. 2017: Akm Ashiquzzaman, Abdul Kawsar Tushar, **Md. Rashedul Islam**, Dongkoo Shon, Kichang Im, Jeong-Ho Park, Dong-Sun Lim, and Jongmyon Kim, “Reduction of Overfitting in Diabetes Prediction Using Deep Learning Neural Network”, 7th iCatse International Conference on IT Convergence and Security, 2017 (LNEE), 25-28 Sep 2017, Korea,
URL: https://link.springer.com/chapter/10.1007/978-981-10-6451-7_5
35. 2017: Hanif Bhuiyan, Jinat Ara, Rajon Bardhan, **Md. Rashedul Islam***, “Retrieving YouTube Video by Sentiment Analysis on User Comment”, 2017 IEEE International Conference on Signal and Image Processing Applications

(ICSIPA), Kuching, 2017, pp. 474-478

URL: <https://ieeexplore.ieee.org/document/8120658>

36. **2017:** Young-Hun Kim, M M Manjurul Islam, **Md. Rashedul Islam**, Jong-Myon Kim, “Genetic Algorithm Based Discriminant Feature Selection for Improved Fault Diagnosis of Induction Motor”, The 19th Int'l Conf on Artificial Intelligence ICAI'17 (CSREA Press), July 17-20, 2017 in Las Vegas, Nevada, USA.
URL: <https://csce.ucmss.com/cr/books/2017/LFS/CSREA2017/ICA3628.pdf>
37. **2017:** **Md Rashedul Islam**, Abdul Kawsar Tushar and Jong–myon Kim, “Efficient Bearing Fault Diagnosis by Extracting Intrinsic Fault Information using Envelope Power Spectrum”, **2017 IEEE International Conference on Imaging, Vision & Pattern Recognition**, Dhaka, Feb, 2017
URL: <https://ieeexplore.ieee.org/document/7890889>
38. **2016:** **Md Rashedul Islam**, M M Manjurul Islam and Jong–myon Kim, “Feature Selection Techniques for Increasing Reliability of Fault Diagnosis of Bearings”, 9th International Conference on Electrical and Computer Engineering (ICECE), 2016 ICECE2016, Dhaka, Dec 2016.
URL: <https://ieeexplore.ieee.org/document/7853940>
39. **2015:** Md. Sharif Uddin, **Rashedul Islam**, Jong-Myon Kim, Cheol-Hong Kim, “Many-core Accelerated Local Outlier Factor (LOF) based Classifier in Bearing Fault Diagnosis”, 1^{8th} International Conference on Computer and Information Technology (ICCIT), pp. 445-449, 21-23 December 2015.
URL: <https://ieeexplore.ieee.org/document/7488112>
40. **2015:** **Md. Rashedul Islam**, Jia Uddin, Jong-Myon Kim, “Fault Diagnosis of an Induction Motor Using a Gabor Filter and Singular Value Decomposition Based Feature Extraction Method”, 2015 International Conference on Platform Technology and Service (PlatCon-15), pp 150-151, Jan 27, Jeju 2015
41. **2014:** Jia Uddin, **Md Rashedul Islam**, Jong-Myon Kim, “Reliable Fault Diagnosis of Induction Motors using 2D Signal Processing Techniques”, 8th International Conference on Electrical and Computer Engineering (ICECE 2014), Dhaka, 20-22 December 2014.
42. **2014:** **Md Rashedul Islam**, Jong-Myon Kim, “A New Cooperative-GPS Approach to Improve GPS Positioning Accuracy for Location Based System”, The 2nd FTRA International Conference on Ubiquitous Computing Application and Wireless Sensor Network (UCAWSN-14), July 7-10, Jeju, 2014
43. **2014:** **Rashedul Islam**, Jia Uddin, Jong-Myon Kim, “Reliable Fault Diagnosis of Induction Motors using an Acoustic Emission Sensor and Signal Processing Techniques”, The 2nd FTRA International Conference on Ubiquitous Computing Application and Wireless Sensor Network (UCAWSN-14), July 7-10, Jeju, 2014
44. **2014:** **Rashedul Islam**, Jong-Myon Kim, "Reliable RGB color image watermarking using DWT and SVD," International Conference on Informatics, Electronics & Vision (ICIEV), 2014, pp.1,4, 23-24 May 2014.
URL: <https://ieeexplore.ieee.org/document/6850815>
45. **2014:** **Rashedul Islam**, Jong-Myon Kim, “Direction Averaging Method for Improving GPS Positioning Accuracy in Real-Time Navigation”, The 6th FTRA International Symposium on Advances in Computing, Communications, Security, and Applications (ACSA-14), April 2014

46. **2014:** Md Shohidul Islam, **Md Rashedul Islam**, Jong-Myon Kim, “A accelerating Haegeum’s Sound Synthesis System using Graphics Processing Unit” The 6th FTRA International Symposium on Advances in Computing, Communications, Security, and Applications (ACSA-14), April 2014
47. **2009:** Saleh Ahmed, **Md. Rashedul Islam**, Md. Shafiul Azam “Bangla Hand Written Digit Recognition Using Supervised Locally Linear Embedding Algorithm and Support Vector Machine”, 12th International Conference on Computers and Information Technology, 2009. ICCIT '09. Print ISBN: 978-1-4244-6281-0, Index By IEEE Explore.
URL: <https://ieeexplore.ieee.org/document/5407269>
48. **2009:** Saleh Ahmed, Shamim Ahmad, Md. Omar Faruq, **Md. Rashedul Islam** “EMG Signal Decomposition Using Wavelet Transformation with Respect to Different Wavelet and a Comparative Study”, 2nd International Conference on Interaction Sciences: Information Technology, Culture and Human, Korea, ACM New York, NY, USA ©2009, ISBN: 978-1-60558-710-3.
URL: <https://dl.acm.org/doi/10.1145/1655925.1656058>
49. **2009:** **Md. Rashedul Islam**, Md. Shafiul Azam, Saleh Ahmed “Speaker Identification System Using PCA & Eigenface”, 12th International Conference on Computers and Information Technology, 2009. ICCIT '09. Print ISBN: 978-1-4244-6281-0, Index By IEEE Explore.
URL: <https://ieeexplore.ieee.org/document/5407129>
50. **2006:** **Md. Rashedul Islam**, A.N.K. Zaman, Shamim Ahmad, Md. Khademul Islam Molla “Speaker Identification System Using Eigenface Classification Engine” 9th International Conference of Computer and Information Technology (ICCIT 2006), ISBN: 984-23-3828-1
51. **2006:** Sangeeta Biswas, **Md. Rashedul Islam**, Shamim Ahmed, Md. Khademul Islam Molla “Text-Dependent Speaker Identification System Using MFCC and HMM” 9th International Conference of Computer and Information Technology (ICCIT 2006), ISBN: 984-23-3828-1

Korean Conference (3):

1. **2014:** **Md. Rashedul Islam**, Jong-Myon Kim, “Texture Feature Analysis based Fault Diagnosis of Induction Motors”, KISPS Summer Conference 2014, pp 153-157, 20-21 June 2014, Degu, South Korea.
2. **2014:** Md Shohidul Islam, **Md Rashedul Islam**, Fahmid Al Farid, Jong-Myon Kim, “Spectral Modeling Synthesis of Haegeum Using GPU” Winter Conference of the Korea Society of Computer and Information No. 22, Issue 1, 2014 (**Best Paper Award**)
3. **2013:** **Rashedul Islam**, Jong-Myon Kim, “Direction Averaging Method for Improving GPS Positioning Accuracy in Real Time Navigation”, 2013 Korea Engineering Arts Society Conference Vol. 11 no. 1, 2013 (**Best Paper Award**)

Book/Book Chapter (5):

1. MD Rashedul Islam, Fahmid Al Farid, “Advancements in AI-Based Anomaly Detection for Smart Manufacturing”, in Artificial Intelligence for Smart Manufacturing and Industry X.0, by Springer Series in Advanced Manufacturing, pp 37–68, 06 March 2025
2. **2017:** Abdul Kawsar Tushar, Akm Ashiquzzaman, **Md. Rashedul Islam**, Afia Afrin: "A Novel Transfer Learning Approach upon Hindi, Arabic, and Bangla Numerals using Convolutional Neural Networks", International Conference On Computational Vision and Bio Inspired Computing (ICCVBIC 2017), 2017 in Tamil Nadu, India, Accepted. (Springer - Lecture Notes in Computational Vision and Biomechanics; indexed in Scopus)
3. **2016: Md. Rashedul Islam**, Md. Sharif Uddin, Sheraz Khan, Jong-Myon Kim, and Cheol-Hong Kim, “Multi-core Accelerated Discriminant Feature Selection for Real-time Bearing Fault Diagnosis”, Trends in Applied Knowledge-Based Systems and Data Science, LNCS, vol. 9799, pp 645-656, Aug 2-4, Morioka, Japan.
4. **2015: Md. Rashedul Islam**, Sheraz A. Khan, and Jong-Myon Kim, "Maximum class separability-based discriminant feature selection using a GA for reliable fault diagnosis of induction motors", Lecture Notes in Artificial Intelligence LNAI, vol 9227, pp 526-537, **(SCOPUS)**
5. **2016: Md. Rashedul Islam, Power of Parallelism in .NET**, ISBN-13: 978-3-659-94849-7, ISBN-10: 3659948497, Published on: 2016-11-03