CURRICULUM VITAE

Dr. MD. RASHEDUL ISLAM

Chief Researcher of Computer Vision and Lead of Overseas AI Development Group, Chowagiken Corp., Japan

Senior Member, IEEE.

E-Mail: rashed.cse@gmail.com, rashed.cse@uap-bd.edu, Mdrashedul.islam@chowagiken.co.jp
Mobile: +818 2140 7812 (Japan), 0451829822 (Australia), +880 1712501772 (Bangladesh)
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Career Objective:

Leveraging my extensive experience in both academia and industry, alongside advanced research and development skills, I seek to drive technological advancements and foster collaborative growth in an organization that values innovation and impact.

Summary of CV:

Updated on: 2024-02-25

Academic Background:

2016 (1 Sep 2013 - 19Aug 2016)	PhD, Embedded System Lab, University of Ulsan, South Korea Thesis: **Discriminant Fault Feature Selection and Reliable Online Bearing Fault Diagnosis System using Signal Processing and Machine Learning Techniques**
2011 (Jan 2010 – 18 May 2011)	M.Sc. (Major in Informatics) University of Borås (Högskolan i Borås), Sweden. Thesis: Evaluations of the parallel extensions in .NET 4.0 Thesis link: http://hdl.handle.net/2320/8209
2004 (held 2006) (Jan 2001- Jun 2006)	B. Sc. (Hons) in Computer Science and Engineering, Rajshahi University. And Obtained 1st Class (3rd position) Thesis: Speaker Identification System Using Eigenface Classification Engine
2000	Higher secondary certificate from Govt. A. H. College, Bogra under Rajshahi board and obtained First Division
1998	Secondary school certificate from Gabtali Pilot high school, Bogra, under Rajshahi board and obtained First Division.

Job Experiences:

Teaching and research experience

1. **Chief Researcher of Computer Vision and Group Leader of Overseas AI Development**
   Chowagiken Corporation, Japan
   Joining date: 01-05-2023 to now
   Research on Computer vision and AI applications, AI project analysis, leading group members, research and development on machine learning, deep learning, and AI models, supervising and managing different projects, conduct training for engineers.

2. **Senior Engineer,**
   R&D department, (Computer Vision, Machine learning, Deep learning),
   Industry Solutions division
   Nikon-Exvision corporation
   Tokyo, Japan
   Joining date: 01-01-2020 to 30-04-2023
   Research and development on Computer vision applications, advanced video, image, and spectral exploitation algorithms, vision-based defect detection, Industrial visual monitoring, Evolutionary algorithm for optimization, Machine learning, and deep learning.

3. **Visiting Researcher (Postdoc)**
   School of Computer Science and Engineering
   University of Aizu, Fukushima, Japan
   Joining date: 01-04-2018 to 31-12-2019
   Conducting Research on HCI and Health informatics, Supervising Undergraduate & Graduate Students, Workshops, Project Proposal &Research Fund organizing, and Other academic

4. **Associate Professor**
   Dept. of Computer Science & Engineering
   University of Asia Pacific, Dhaka, Bangladesh
   Joining date: 16-10-2016 to 30-03-2018
   Conducting courses, Conducting Research, Conducting Undergraduate & graduate Thesis, Workshop, Supervising Students, Research Fund organizing and Other academic and administrative duties.

5. **Assistant Professor**
   Dept. of Computer Science & Engineering
   University of Asia Pacific, Dhaka, Bangladesh
   Joining date: 09-10-2011 to 15-10-2016.

6. **Graduate Research Assistant**
   Embedded System Lab
   University of Ulsan, South Korea.
   http://eucs.ulsan.ac.kr
   Date: 01-09-2013 to 22-08-2016.

7. **Senior Lecturer**
   Dept. of Computer Science & Engineering
   Leading University, Sylhet, Bangladesh
   Joining date: 17-09-2009 to 01-10-2011.

8. **Lecturer**
   Dept. of Computer Science & Engineering
   Leading University, Sylhet, Bangladesh
   Joining date: 17-09-2007 to 16-09-2009.

9. **Software System Analyst (Part-time)**

   Orbit Itech Ltd., Birminghum, UK
   Duration: September 2016 to March 2018
   Project supervision, Database analysis, Software System design and development, Web application development

10. **Chief Technical Officer**

    Orbit Solutions Ltd
    Niloy-60(2nd Floor), Dorga gate, Sylhet, Bangladesh.
    Duration: 01-03-2007 To 15-09-2007
    Database analysis, Software System design and development, Web application development

11. **Senior Developer**

    Orbit Solutions Ltd (Complete IT Solution Firm),
    Niloy-60(2nd Floor), Dorga gate, Sylhet.
    Duration date: 01-09-2006 To 28-02-2007
    Database analysis, Software System design and development, Web application development

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Other Experience

1. Secretary, Organizing committee, 19th International Conference on Computer and Information Technology 2017 (ICCIT2017)
2. Chair, Secretary, Organizing committee, ACM-ICPC Dhaka Regional Site 2017
3. Coordination, IEB Accreditation preparation committee 2018 of UAP.
4. Head, Self-Assessment Committee (SAC) of Dept. of CSE Under IQAC
5. Convener of Software and Hardware Club, Dept. of CSE
6. Coordinator, Admission Committee, Dept. of CSE
7. Treasurer, Bangladesh Advanced Computing Society.
8. Head (Acting), Department of CSE, Leading University
   Duration: 01-06-2008 to 19-04-2009
9. Adviser, Computer Club, Leading University, Sylhet
   Duration: 15-06-2009 to 28-09-2011
10. Coordinator, Master of Science in Computer Science and Engineering (MCSE), University of Asia, Pacific
    Duration: 01-11-2011 to 30/08/2013
11. Convener, Research and Publication Unit, Dept of CSE, University of Asia Pacific
    Duration: 01-11-2011 to 31-03-2013
12. Convener, Software and Hardware club, Dept of CSE, University of Asia Pacific
    Duration: 01-04-2013 to new

Research Interest

Computer Vision, Signal & Image processing, Machine learning and Deep Learning, Generative AI, Feature selection & Optimization, Industrial anomaly detection, Human activity detection, Bio signal & image analysis, Health informatics, Robotic vision and navigation, and Data-driven fault diagnosis.

Publications (summary):

Total number of publications: 92

International Journals (39): 2024 (1), 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 (46): 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 (4): 2017(1) 2016(2) 2015(1)

Publications (details):

Please see the "List of Publications" on page 13~22

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Invited Talk and Keynote Speech:

1. "The Impact of Artificial Intelligence in Industrial Applications", **Md Rashedul Islam**, Keynote Speech in International Seminar on the Latest Research Trends in Technology, Comilla University, Bangladesh

2. "Reliable Bearing Fault Diagnosis Systems: Introduction of Bearing Signal Processing, Feature Selection and Machine Learning Techniques", **Md Rashedul Islam**, Keynote Speech in Webinar at University of Ulsan, South Korea, 2021-08-04

3. "Research Process and Paper Writing- A guide for beginner", **Md Rashedul Islam**, Keynote Speech in Webinar at University of Asia Pacific, Bangladesh, 2021

4. "Research Methodology and Research Paper Writing", **Md Rashedul Islam**, Keynote Speech in Webinar at Bangladesh University of Business and Technology, Bangladesh, 2021

5. "Machine Learning Applications in HCI and Health informatics", **Md Rashedul Islam**, Keynote Speech in Symposium on intelligent Information Processing at RU, Bangladesh, 2019

6. "Human Computer Interaction: Action with Advances Technology and Machine Learning", **Md Rashedul Islam**, Invited talk at University of Asia Pacific, Bangladesh, 2019

7. "Machine Learning applications Based on Image and Signal Processing", **Md Rashedul Islam**, Invited talk at BRAC University, Bangladesh, 2019

Reviewer of International Journal and Conference

- IEEE Transactions on Industrial Informatics
- IEEE Access
- Sensors, MDPI
- Applied Science, MDPI
- Measurement, Elsevier
- Multimedia tools and application, Springer
- Cluster Computing, Springer
- Shock and Vibration, Hindawi
- Journal of Information Processing Systems
- TPC co-chair, ICSCT 2021, 2021 International Conference on Science and Contemporary Technologies (ICSCT)
- Secretary, Organizing committee, ICCIT 2017, 19th International Conference on Computer and Information Technology 2017
- TPC Member, ICCIT 2017, 19th International Conference on Computer and Information Technology 2017
- TPC Member, ICCIT 2018, 20th International Conference on Computer and Information Technology 2018
- Reviewer, ICRPSET2022, International Conference on Recent Progresses in Science, Engineering and Technology.
- TPC Member, icIVPR 2018, 2018 IEEE International Conference on Imaging, Vision & Pattern Recognition (icIVPR)

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- TPC Member, icIVPR 2017, 2017 IEEE International Conference on Imaging, Vision & Pattern Recognition (icIVPR)

- Reviewer, IC4ME2-2021, The International Conference on Computer, Communication, Chemical, Material and Electronic Engineering (IC4ME2-2021),

- Reviewer, IC4ME2-2018, The International Conference on Computer, Communication, Chemical, Material and Electronic Engineering (IC4ME2-2018)

- Reviewer, IC ECCE 2019, International Conference on Electrical, Communication, and Computer Engineering (ICECCE)

- TPC Member, ICFSP 2019, France, International Conference on Frontiers of Signal Processing (ICFSP)

- TPC Member, ICFSP 2018, France, International Conference on Frontiers of Signal Processing (ICFSP)

- Reviewer, Joint 2020 4th International Conference on Imaging, Vision & Pattern Recognition (IVPR); 9th International Conference on Informatics, Electronics & Vision (ICIEV); and 2nd International Conference on Activity and Behavior Computing (ABC)

Also I have served as session chair in several international conferences.

Thesis Supervisions

- **Ph.D. Thesis (ongoing 1)**
  Human Activity Recognition and Elderly People Fall Prediction using Machine Learning and Signal Processing techniques
  Department of Computer Science and Engineering, Bangladesh University of Professionals
- **Co-supervision: Ph.D. Thesis (ongoing)**
  Robotic path planning for indoor robot applications.
  School of Computer Science and Engineering, University of Aizu, Japan
- **Co-supervision: Ph.D. Thesis**
  Hand Gesture and Handwriting Based HCI and Health Informatics System Using Machine Learning Techniques
  School of Computer Science and Engineering, University of Aizu, Japan

- **M.Sc Thesis (4)**
  Fall 2017: PCA and ICA Based Feature Extraction for Cardiac Arrhythmia Disease Diagnosis, Dept. of Computer Science and Engineering, University of Asia Pacific
  Fall 2017: Enhanced Sleep Disorder Detection Method Using DWT and Feature Selection Technique,
  Dept. of Computer Science and Engineering, University of Asia Pacific
  Fall 2017: Feature Extraction from EEG signal Using EMD for Sleep Disorder
  Dept. of Computer Science and Engineering, University of Asia Pacific
  Spring 2013: Performance evaluation on Data partitioning and task partitioning in parallelism.
  Dept. of Computer Science and Engineering, University of Asia Pacific

- **B.Sc. Thesis (9)**

Updated on: 2024-02-25

Fall 2018: Enhanced denoising of sEMG signal for efficient human action recognition
School of Computer Science and Engineering, University of Aizu
Fall 2018: Brain computer interaction based of EEG signal analysis
Dept. of Computer Science and Engineering, University of Asia Pacific
Fall 2018: Outlier detection based leaf disease detection and diagnosis using image processing techniques
Dept. of Computer Science and Engineering, University of Asia Pacific
Fall 2018: Parkinson"s disease detection based on hand writing analysis
Dept. of Computer Science and Engineering, University of Asia Pacific
Spring 2018: Real time Human computer interaction based on dynamic hand gesture
Dept. of Computer Science and Engineering, University of Asia Pacific
Fall 2017: Video Based Smoke Detection Using Smoke Growth Analysis for Fire Alarm System
Dept. of Computer Science and Engineering, University of Asia Pacific
Fall 2017: A Fault Diagnosis Model of Bearing using Convolutional Neural Network
Dept. of Computer Science and Engineering, University of Asia Pacific
Spring 2017: Reduction of Gesture Feature Dimension for Improving the Hand Gesture Recognition Performance of Numerical Sign Language
Dept. of Computer Science and Engineering, University of Asia Pacific
Spring 2017: Memory Efficient Adaptive Distributed database management system using cost function
Dept. of Computer Science and Engineering, University of Asia Pacific

Project Supervisions
- Online doctor appointment and patient queue control system
- Online home automation system for controlling 48 devices from remote place.
- Web-portal for Bangladesh.
- Microcontroller based Service Counter Queue Management for multiple counters.
- Automated Student and Teacher attendance using punch card and reader.

Awards Received
- Best Paper Award, 3rd Eurasian Conference on Education and Innovation 2020, Vietnam
- Best Paper Award, 2019 IEEE Eurasia Conference on IOT, Communication and Engineering, Taiwan
- Best Paper Award, 2nd IEEE International Conference on Knowledge and Innovation and Invention 2019, South Korea.
- Research Fellowship, Visiting Researcher, University of Aizu, Fukushima, Japan, 2018
- Best Paper award, Winter Conference of the Korea Society of Computer and Information, South Korea
- Best Paper award, KISPS Summer Conference 2014, South Korea
- BK21 Scholarship, University Ulsan, South Korea, 2014-2016
- Full Scholarship including tuition fees, living expenses for pursuing Ph.D. in Computing Engineering, University Ulsan, South Korea, 2013-2016
- Swedish Govt. awards (full tuition fees) for MSc. in Informatics at Borås (Högskolan i Borås), Sweden, 2010-2011
- 3rd Position, Software and Project Exhibition 2006, Dept. of CSE, University of Rajshai, Bangladesh.
- Merit Scholarship from University of Rajshai, 2000-2004

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- Merit Scholarship of Bangladesh Junior Level Scholarship Exam, 1996-1997

Project and Research Funding
- Funding for project "Machine learning and IoT based leaf disease diagnosis" from Institute of Energy, Environment, Research and Development (IEERD), University of Asia Pacific, 2019
- Established "Computer Vision and Pattern Recognition Lab" http://cvprlab.uap-bd.edu/, 2018.
- Funding for laboratory "Mobile Game Research and Development Lab" form ICT-Division, Ministry of Posts, Telecommunications and Information Technology, Government of Bangladesh, 2017
- Funding for project "Online home automation system for controlling 48 devices from remote place" from Institute of Energy, Environment, Research and Development (IEERD), University of Asia Pacific, 2012

Conducted Courses in Undergraduate and Graduate program:
- Neural Network and Fuzzy system (MCSE)
- Machine Learning (MCSE)
- Pattern Recognition
- Automata and theory of computation
- Computer Architecture
- Operation System
- Software Engineering
- Data Structure
- DBMS
- Advanced DBMS (MCSE)
- Parallel Algorithm (MCSE)
- Structured Programming (C)
- Object Oriented Programming(C++)
- Compiler Design
- Data Communication
- Computer Network
- Web Development
- Graphics Design
- Internet & Ecommerce
- Microprocessor
- MIS
- DSP

Participation in programming contest, IT Fair & Workshop:
1. Participant, Workshop on Embedded system, IICT, BUET, Bangladesh, 2013.
2. Exhibitor, AABISHKARER KHOJE in **BASIS SOFTEXPO 2007**, Dhaka, Bangladesh.
3. Exhibitor, Software and Project Exhibition 2006, CSE, RU, Rajshahi, Bangladesh.
4. Exhibitor, **IISP** in **BASIS SOFTEXPO** 2005, Dhaka, Bangladesh.
5. Contestant, Southern Regional Programming Contest 2005, Khulna University, Khulna, Bangladesh.
6. Exhibitor, Academic Exhibition, Golden Jubilee Festival 2003, RU, Rajshahi, Bangladesh.
7. Contestant, AIUB Inter-University Programming Contest 2002, AIUB, Dhaka, Bangladesh.

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8. Contestant, Inter Department Programming Contest 2001, CES, RU, Rajshahi, Bangladesh
9. Participant, Workshop on Relational Database Management System: A Practical Approach, CSE, RU, Rajshahi, Bangladesh.
10. Participant, Workshop on Algorithm and Programming Tricks, CSE, RU, Rajshahi, Bangladesh.
11. Participant, Workshop on VHDL Programming: A Practical Approach, CSE, RU, Rajshahi, Bangladesh.

Project Done during B.Sc Degree:

1. Vehicle Tracking System Using **GPS. (Year: 2006)**
   Exhibited in **BASIS Softexpo 2008, Dhaka, Bangladesh** (Funded By IT company, Japan)
   Language: VB 6

2. Speaker Identification System (AI Based) **(Year: 2005)**

   Exhibited in IISP at BASIS Softexpo 2005, Dhaka, Bangladesh

   Language: MATLAB

3. Simulation of 8085 Assembly Language Programming Kit. **(Year: 2004)**

   3rd place, Software and Project Exhibition 2006, CSE, RU, Rajshahi.

   And **Exhibit in AABISHKARER KHOJE at BASIS Softexpo2007, Dhaka**

   Language: VB

4. Web Based ticket booking and reservation System **(Year: 2004)**

   Language: PHP,   Database: MySQL

5. PC Based Home electronic device controller **(Year: 2003)**

   Language: Visual C++.

Commercial Software Development (2006~2012):

1. Restaurant Point of Sell with multiple counter and APPs integration

   Tools: C#.Net, MySQL, Android Apps development

   Client: Orbit ITech Ltd. UK.

2. Perfume wholesale Business Automation with Accounting

   Tools: C#.Net and MS. SQL Server

   Client: B & R Perfume, USA.

3. Online Oder management system for restaurant

   Using: HTML, CSS, PHP, JS and MySQL

   Client: Orbit ITech Ltd. UK

4. OMR based teacher's evaluation system

   Using: C#.Net and MySQL

   Client: University of Asia Pacific

5. Supermarket EPOS system

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Client: Costless Ltd. In Ireland.

Using: VB6 and SQL Server

6. Doctor Chamber and Diagnostics center automation

   Using: C#.Net and MS. SQL Server

7. University Automation (Admission, Exam, and Accounts Management Software of Leading University, Client Server Based)

   Language: VB   Database: SQL Server.

   Client: Leading University, Sylhet, Bangladesh

8. Rajshahi University Account Secession Automation Software (Client Server Based)

   Language: VB   Database: SQL Server.

   Client: University of Rajshahi, Bangladesh.

9. Examination Script Management System

   Language: VB,   Database: SQL Server

   Client: Board of Intermediate and Secondary education, Sylhet (To Manage SSC and HSC exam, Script collection form center All teacher database, automatic Examiner selection, Script Distribution, Script Collection, Examiner Payment etc.)

10. Smart Shop (Using Barcode generator and scanner)

    Language: VB   Database: Access

    Client: 1) Maha, Nahar Tower, Nayasarak, Sylhet, Bangladesh

    2) Take N Pay, Mirbox Tula, Sylhet, Bangladesh

    3) Top in Town, Mirbox Tula, Sylhet, Bangladesh

    4) Mumme, Nahar Tower, Nayasarak, Sylhet, Bangladesh

    5) Mohona Shopping center, Biany Bazar, Sylhet.

    6) Samana Sopping center, Blue water, Zindabazar, Sylhet

    7) Signature, Kumor para, Sylhet

    8) Golden Man, Zindabazar, Sylhet.

11. Cold Store Management Software

    Language: VB.   Database: Oracle.

    Client: 1) Biswash Cold Store, Nator, Bangladesh

    2) Uttara Cold Store, Bogra, Bangladesh

12. Client Server based Accounts Management Software

    Language: VB   Database: SQL Server

    Client: ABASON Holdings Pvt. Ltd., Ambarkhana, Sylhet, Bangladesh

13. School Management Software

    Language: VB,   Database: Oracle.

    Client: 1. Sunny Hill International School & College, Sylhet.

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2. Shahjalal Jamia School & College, Mira Bazar, Sylhet.

14. SiliconBasket.com: Online Superstore in Bangladesh, (System Architect and team leader) (Year: 2018)

Development Skills:

- **Programming Language:** Python, C++, OpenCV, PyTorch, Tensorflow, MATLAB, Microsoft C#.Net, and Others.
- **Database:** MS SQL Server, MS Access, MySQL, Oracle.
- **Reporting:** Crystal Report, Data Report in VB
- **Scripting Language/Web Technology:** HTML, PHP, Java Script, CSS.

English Proficiency

1. Medium of Instruction was English in Undergraduate Program at Dept. of CSE, University of Rajshahi, Bangladesh
2. Medium of Instruction was English in Graduate Program(M.Sc) at University of Boras, Sweden.
3. Medium of Instruction in English at my teaching profession at University of Asia Pacific. We are strongly instructed to conduct Courses, supervision and discussion in English.
4. Medium of Instruction was English in PhD at School of Electrical, Electronics and Computer Engineering, University of Ulsan, Ulsan, South Korea
5. Medium of communication and work in English at University of AIZU, Japan.
6. Medium of communication and work in Exvision Corporation, Japan
7. Medium of communication and work in Chowagiken, Japan

Personal Information:

Father's name   : Md. Shakhawat Hossain.
Mother's name   : Mrs. Rawshon Ara.
Date of birth   : 01-06-1981.
Nationality   : Bangladeshi By Birth.
Sex   : Male.

Resident Status in Australia:

Visa Type: Permanent Resident (Global Talent)
Duration: 2024-02-20 to Now

Resident Status in Japan:

Visa Type: Permanent Resident (High Skilled Professionals**)**
Duration: 2021-06-22 to Now

Referees:

(1) Yutaka Watanobe , PhD

Senior Associate Professor

Department of Computer Science and Engineering, University of Aizu, Japan

Phone: +81-242-372715,

Updated on: 2024-02-25

Email: yutaka@u-aizu.ac.jp

(2) Prof. Jong-myon Kim, PhD

Professor, IT Convergence Department,

University of Ulsan, Ulsan, South Korea

Phone: +82-52-259-2217,

Email: jongmyon.kim@gmail.com, jmkim07@ulsan.ac.kr

(3) Prof. Dr. Alok Kumar Shah

Professor and Former Head,

Dept. of Computer Science & Engineering, University of Asia Pacific, Bangladesh

Mobile: +8801711465641

Email: aloke@uap-bd.edu

(4) **Prof. Dr. M. Khademul Islam Molla**

Professor, Dept. of Computer Science & Engineering

University of Rajshahi, Bangladesh

Mobile: +88 01727786600

Email: khadem_ru@yahoo.com

(Dr. Md. Rashedul Islam)

ResearchGate:
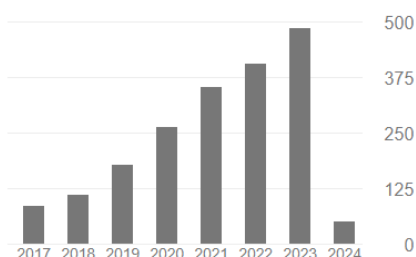https://www.researchgate.net/profile/Dr_Md_Rashedul_Islam

Google Scholar:
https://scholar.google.com/citations?user=V-HK1CEAAAAJ&hl=en&authuser=1

ORCiD:
https://orcid.org/0000-0001-8676-6338

www.rashedul.info

Google Scholar (2024-02-25)

Cited by		VIEW ALL
	All	Since 2019
Citations	2080	1750
h-index	20	18
i10-index	43	38

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Appendix: List of Publications

(note: *=Corresponding Author)

Total number of publications: 92

International Journals (39): 2024 (1), 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 (46): 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 (4): 2017(1) 2016(2) 2015(1)

International Journal (39):

1. 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)**

2. 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)**

3. 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)**

4. 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)**

5. **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. **(SCI, IF=3.476, Q1)**

6. 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)**

7. 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)**

8. 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).**

9. **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).**

10. **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)**

11. **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)**

12. **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)**

13. **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)**

14. **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)**

15. **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)**

16. **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).**

17. **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).**

18. **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).**

19. **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).**

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Book/Book Chapter (4):

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Ph.D. Thesis

- Title: Discriminant Fault Feature Selection and Reliable Online Bearing Fault Diagnosis System using Signal Processing and Machine Learning Techniques

M.Sc. Thesis:
- Title: Evaluations of the parallel extensions in .NET 4.0
  link: http://hdl.handle.net/2320/8209

Undergraduate (B.Sc) Thesis:

Title: Speaker Identification System Using Eigenface Classification Engine