

CURRICULUM VITAE

Dr. MD. RASHEDUL ISLAM

**Lead Researcher of Computer Vision and
Manager of Overseas AI Group**

Chowagiken Corp., Japan

Senior Member, IEEE.



(Ctrl+Click to visit)



Google Scholar



ORCID



ResearchGate

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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:

Topic	Page #	Remarks
Academic Qualification	2	Highest Degree: Ph.D. in Computer Engineering, 2016
Job Experiences:	2-3	19 years of experience in the academy, research, and development. Academy (10 years), Postdoc and AI R&D in Japan (7+ years), Software development (2years)
Other Experience	3	Served in several administrative and organizing bodies
Publications (Summary)	3-4	Total number of publications: 106, Citation 3180+ (Int. Journal (47), Conference (54), Book/Book chapter (5)) List of publications in Additional file
Research Interest	4	
Skills	4	
Invited Talk and Keynote Speech	5	
Reviewer of International Journal and Conference	5	Reviewer of several reputed international journals and conferences
Thesis Supervisions	6	Supervised B.Sc. M.Sc. and Ph.D. Thesis
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Academic Background:

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	M.Sc. (Major in Informatics) University of Borås (Högskolan i Borås), Sweden.
2006	B. Sc. (Hons) in Computer Science and Engineering, Rajshahi University. And Obtained 1st Class (3rd position)

Job Experiences:

- 1. Lead Researcher of Computer Vision and Manager of Overseas AI**, Chowagiken Corporation, Hokkaido, Japan
Duration: 01-05-2023 to now
Research and development on computer vision and AI in various application areas; technical analysis and determining optimal solutions to complex problems; supervising research and projects; design and develop AI model pipeline including data analysis, training, and validation; mentoring group members and engineers and new employees.
- 2. Senior Engineer, R&D department (Computer Vision, Machine learning, Deep learning), Industry Solutions division**, Nikon-Exvission Corporation, Tokyo, Japan
Duration: 01-01-2020 to 30-04-2023
Research and development on Computer vision applications, Establish robust pipelines for AI model development, deployment, and inference, vision-based defect detection, Industrial visual monitoring, Evolutionary algorithms for optimization, Machine learning, and deep learning.
- 3. Visiting Researcher (Postdoc)**, School of Computer Science and Engineering
University of Aizu, Fukushima, Japan
Duration: 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
Duration: 16-10-2016 to 30-03-2018
Conducting courses, Conducting Research, Conducting Undergraduate & graduate Thesis and 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
Duration: 09-10-2011 to 15-10-2016.
- 6. Graduate Research Assistant**,
Embedded System Lab, University of Ulsan, South Korea.
Duration: 01-09-2013 to 22-08-2016.

7. **Senior Lecturer**,
Dept. of Computer Science & Engineering, Leading University, Sylhet, Bangladesh
Duration: 17-09-2009 to 01-10-2011.
8. **Lecturer**, Dept. of Computer Science & Engineering, Leading University, Sylhet, Bangladesh
Duration: 17-09-2007 to 16-09-2009.
9. **Software System Analyst (Part-time)** Orbit Itech Ltd., Birmingham, UK
Duration: September 2016 to March 2018
Software System analysis and design, Database analysis and design, Project supervision.
10. **Senior Developer**, Orbit Solutions Ltd, Sylhet, Bangladesh.
Duration: 01-09-2006 To 15-09-2007
Database analysis, Software System design and development, Web application development

Other Experience

1. **Consultant, AI product development, 27AI, Melbourn, Australia (Dec, 2023~May, 2025)**
2. Secretary, Organizing committee, 19th International Conference on Computer and Information Technology 2017 (ICCIT2017)
3. Chair, Organizing committee, ACM-ICPC Dhaka Regional Site 2017
4. Member of Engineering Accreditation Committee, IEB, Bangladesh, 2017-2018.
5. Head, Self-Assessment Committee (SAC) of Dept. of CSE Under IQAC
6. Head (Acting), Department of CSE, Leading University
7. Coordinator, Master of Science in Computer Science and Engineering (MCSE), University of Asia, Pacific
8. Convener, Research and Publication Unit, Dept of CSE, University of Asia Pacific
9. Convener, Software and Hardware club, Dept of CSE, University of Asia Pacific

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)

Google Scholar citation: 3180 ()

Publications in Journals:

- IEEE Transactions on Industrial Electronics: SCI, IF: 8.236, JCR=0.8%, Q1
- Nature Scientific Reports: SCI IF 3.2 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): [Please visit www.rashedul.info](http://www.rashedul.info) ->Publications”

Or https://rashedul.info/List_of_publications_ALL.pdf

Research Interest

Computer Vision, Signal & Image processing, Machine learning and Deep Learning, Human Posture 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.

Skills:

- **Programming Language:** C/C++, Python, MATLAB, PHP
- **Computer Vision:** Image procession, object detection, Image classification, image segmentation (semantic, instance, panoptic), posture estimation, OCR, Document analysis, anomaly detection
- **Machine learning:** supervised learning, unsupervised learning, Reinforcement learning, Clustering, Feature engineering, Optimization, outlier detection, Ensemble model.
- **Deep Learning:** CNN, RCNN, Faster RCNN, YOLO, Deep learning models for CV, Deep learning model for OCR and document analysis, Anomaly detection models, Transfer learning, Zero-shot models, Auto encoder, Augmentation,
- **Generative AI:** 2D image generation, diffusion models, LLM, RAG, Text summarization, QA, Prompt engineering.
- **Python:** NumPy, Pandas, Matplotlib, Supervision, Scikit-Learn, TensorFlow, PyTorch, OpenCV, libraries for Data Science and Machine Learning, Flask and FastAPI for web application
- **Cloud Computing:** AWS, GCP
- **Database:** MS SQL Server, MS Access, MySQL, PostgreSQL, SQLite

Invited Talk and Keynote Speech:

1. Keynote speech at International Islamic University Chittagong, Bangladesh
2. Invited Speech in Seminar of Future AI in Industry, Khwaja Yunuse Ali University, Bangladesh, 2025
3. The Future of Industry: AI-Driven Applications, Keynote Speech in Tech Talk, Comilla University, Bangladesh, 2025

4. “The Impact of Artificial Intelligence in Industrial Applications”, Keynote Speech in International Seminar on the Latest Research Trends in Technology, Comilla University, Bangladesh, 2023
5. “Reliable Bearing Fault Diagnosis Systems: Introduction of Bearing Signal Processing, Feature Selection and Machine Learning Techniques”, Keynote Speech in Webinar at University of Ulsan, South Korea, 2021-08-04
6. “Research Process and Paper Writing- A guide for beginner”, Keynote Speech in Webinar at University of Asia Pacific, Bangladesh, 2021
7. “Research Methodology and Research Paper Writing”, Keynote Speech in Webinar at Bangladesh University of Business and Technology, Bangladesh, 2021
8. “Machine Learning Applications in HCI and Health informatics”, Keynote Speech in Symposium on intelligent Information Processing at RU, Bangladesh, 2019
9. “Human-Computer Interaction: Action with Advances Technology and Machine Learning”, Invited talk at University of Asia Pacific, Bangladesh, 2019
10. “Machine Learning applications Based on Image and Signal Processing”, 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, ICSCCT 2021, 2021 International Conference on Science and Contemporary Technologies (ICSCCT)
- 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)
- 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)
- Track Chare, ICCA 2024, BUBT, Bangladesh.

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

Thesis Supervisions

- **Ph.D. Thesis (ongoing)**
Human Activity Recognition and Elderly People Fall Prediction using Machine Learning and IoT
Department of Computer Science and Engineering, Bangladesh University of Professionals
- **Co-supervision: Ph.D. Thesis**
Cloud-based Autonomous Robotic Systems for Enhanced Mobility and Accessibility
School of Computer Science and Engineering, University of Aizu, Japan
- **Co-supervision: Ph.D. Thesis**
Hand gesture based human computer interaction using computer vision and deep 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)**
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 and Research Funding

- “Human activity recognition and fall detection for elderly care” from Special Research Grants of ICT division Bangladesh, 2021.
- “Quantitative evaluation of cognitive and motor symptoms of neurological diseases using” from Fukushima Foundation for the Promotion of Academic Education and we work with Fukushima Medical University and Takeda Soge Hospital, Japan, 2019.
- “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

Scholarship & 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 Rajshahi, Bangladesh.
- Merit Scholarship from University of Rajshai, 2000-2004
- Merit Scholarship of Bangladesh Junior Level Scholarship Exam, 1996-1997

Research Collaboration with

- Prof. Jongmyon Kim, PhD, Professor, IT Convergence Department, University of Ulsan, South Korea.

- Yutaka Watanobe, PhD, Senior Associate Professor, Department of Computer Science and Engineering, University of Aizu, Japan
- Prof. Jungpil Shin, PhD, Professor, Division of Information Systems, School of Computer Science and Engineering, University of Aizu, Japan
- Dr Syed Mohammed Shamsul Islam, Senior Lecturer of Computer Science, Edith Cowan University, Australia.
- Dr. Jia Uddin, Assistant Professor, Department of Technology Studies, Woosong University, South Korea
- Prof. Dr. Alope Kumar Saha, Professor, Department of Computer Science and Engineering, University of Asia Pacific, Bangladesh
- Dr. M. Firoz, Associate Professor, Department of Computer Science and Engineering, American International University-Bangladesh
- Dr. Nasima Begum, Associate Professor, Department of Computer Science and Engineering, University of Asia Pacific, Bangladesh

And More.....

Personal Information:

Date of birth : 01-06-1981.
 Nationality : Bangladeshi By Birth.
 Sex : Male.
 Resident Status in Australia : Permanent Resident in Australia (Global Talent)
 Resident Status in Japan : Permanent Resident in Japan (High Skilled Professionals)

Profiles:

Personal website: <https://rashedul.info/>
 Google Scholar:
<https://scholar.google.com/citations?user=V-HK1CEAAAAJ&hl=en&authuser=1>

Referees:

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(Dr. Md. Rashedul Islam)