MOHAMMAD ABDULLAH-AL-WADUD

CONTACT DETAILS	Room# 2055, Building# 31, Department of Software Engineering, College of Computer and Information Systems, King Saud University, P.O. Box 51178, Riyadh 11543, The Kingdom of Saudi Arabia. *Phone:* +966-11-4696-303 (office), +966-5613-444-55 (cell). *E-mail:* mwadud@ksu.edu.sa, wadud@ieee.org

PERSONAL DETAILS	*Date of birth*: 30th September, 1977 *Gender:* Male *Nationality:* **Bangladeshi** (by birth) *Permanent Residency:* **South Korea**

CURRENT STATUS	Associate Professor, Department of Software Engineering (SWE), King Saud University, Kingdom of Saudi Arabia (KSA). **Undergraduate Courses conducted:** Human-Computer Interaction (8 sections), Software Construction Laboratory (13 sections), Security Information and Event Management (3 sections), Artificial Intelligence and Machine Learning (2 sections). **Graduate Course conducted:** Multimedia Systems (8 sections), Software Usability Engineering (3 sections), Software Requirements Engineering (2 sections) **MS Thesis Supervision:** 9 (as supervisor), 2 (as co-supervisor), 1 (as field supervisor) **Masters Project Supervision:** 12 **Undergraduate Project Supervision:** 11 **Medium of instruction:** English. **Additional Responsibilities:** Head of the Industrial Collaboration Committee and software construction Clinic, SWE Dept (Sep 2019 - till date); Head of Graduate Studies Committee, SWE Dept. (May 2018- Aug 2019), Research Advisor, C4I Center for Advanced Systems (C4ICAS), King Saud University, KSA. (Sep 2014 – Jun 2016); Head of the Research and Industrial Collaboration Committee, SWE Dept (Jan 2015-Aug 2016); and member of different committees, SWE Dept. **Duration of job:** From May 10, 2014 – till date.

PAST EMPLOYMENTS	Associate Professor Department of Industrial and Management Engineering, Hankuk University of Foreign Studies, **South Korea**. **MS Thesis Supervision:** 01 (as co-supervisor). **Graduate (MS and PhD) Courses conducted:** Advanced Topics in Image Processing (2 sections), Computer Vision (1 section). **Undergraduate Courses conducted:** Data Structures and Algorithms (5 sections), Web Programming (5 sections), Computer Programming in C (10 sections), Object-Oriented Programming in Java (5 sections), Business Data Communication (1 section), Business Mathematics (1 section). **Medium of instruction:** English. **Duration of job:** From March 01, 2009 – February 28, 2014. Joined as Full-Time Lecturer; later promoted to Assistant Professor (March 01, 2011) and Associate Professor (September 01, 2013).

	Position: Lecturer, Dept. of CSE & CIS, Faculty of Sciences and Engineering. **Employer:** East West University, Dhaka, **Bangladesh**. **Responsibilities:** To conduct classes, set question papers, examine answer scripts and perform some administrative duties, and train the students participating in programming contests. **Courses conducted:** Operating Systems (2 sections), Programming in C (1 section), Data Structures (1 section), Computer Fundamentals (1 section). **Medium of instruction:** English. **Duration of Job:** From September 16, 2004 to March 14, 2005
	Position: Lecturer, Dept. of CSE, Faculty of Sciences and Information Technology. **Employer:** Daffodil International University, Dhaka, **Bangladesh**. **Responsibilities:** To conduct classes, set question papers, examine answer scripts, perform some administrative duties, and train students participating in programming contests. **Courses conducted:** Data Structures (2 sections), Computer Fundamentals (2 sections), Computer Programming (2 sections). **Medium of instruction:** English. **Duration of Job:** From July 27, 2003 to September 15, 2004
	Post: Coordinator **Employer:** Pathshala IT, a wing of South Asian Institution of Photography and Drik Gallery, Dhaka, **Bangladesh** **Responsibilities:** To train up students on programming and some other software, and to conduct sessions on workshops and seminars. **Medium of instruction:** Bangla & English. **Duration of job:** From May 15, 2001 to July 25, 2003

EDUCATION	
2009	**Kyung Hee University, South Korea.** PhD in Computer Engineering (Masters and PhD combined program) *Field*: **Image Processing and Computer Vision** *Title of Ph.D. Dissertation*: Intelligent Filtering for Facial Images *Date of Ph.D. Achievement*: 18 Feb 2009 *Coursework details*: *Total earned units* 67; *GPA* 4.255 (Scale 4.3)
2001 (HELD IN 2004)	**University of Dhaka, Bangladesh.** MS in Computer Science & Engineering, 1 year course *Date of Achievement*: 28 Feb 2005 Percentage: 66.5% (First Class)
2000 (HELD IN 2003)	**University of Dhaka, Bangladesh.** Bachelor of Science (B.Sc.), 4 years course Department of Computer Science *Date of Achievement*: 23 Jul 2003 Percentage: 67% (First Class).
1996	**Comilla Cadet College, Bangladesh.** Higher Secondary Certificate (after the 12th grade), First division, star marks, Percentage 90.7%, Secured **9th place** in the combined merit list of Science Group
1994	**Comilla Cadet College, Bangladesh.** Secondary School Certificate (after the 10th grade), First division, star marks, Percentage 83.2%.

RESEARCH AND PUBLICATIONS	**Interests:** Image Processing & Computer Vision, Artificial Intelligence, Machine Learning, Statistical Modeling, Wireless and Ad Hoc Networks, Software Engineering, Cloud Computing, Optimization

Google Scholar: Total Citations **1961;** h-index **18;** i10-index **42**
Thomson Reuters: Total articles **66**, Citations **597**, h-index **10**
Scopus: Total articles **82**, Citations **609**, h-index **13**

Articles Indexed in *Thomson Reuters (ISI) Web of Science*
(Science Citation Index (SCI), Science Citation Index Expanded (SCIE)**)**

1. Rakib Ul Haque, M. F. Mridha, Md Abdul Hamid, M. Abdullah-Al-Wadud, and Md Saiful Islam. "Bengali Stop Word and Phrase Detection Mechanism." Arabian Journal for Science and Engineering (2020): 1-14. (**SCIE**; Impact Factor **1.518**)
Related field(s) of research: Natural Language Processing.

2. Nkenyereye, Lionel, Lewis Nkenyereye, SM Riazul Islam, Chaker Abdelaziz Kerrache, M. Abdullah-Al-Wadud, and Atif Alamri. "Software Defined Network-based Multi-access Edge Framework for Vehicular Networks." IEEE Access (2019) (**SCIE**; Impact Factor **3.244,** Quartile **Q1** (27/146: Computer Sc. & Info. Sys., 54/262: Engineering, Elec. & Elec., 23/89: Telecommunications); **Scopus**, CiteScore **5.13**, SJR **0.801**, SNIP **1.927**) (**Cited by 4**)

3. Subbroto Kumar Saha, S. M. Islam, M. Abdullah-AL-Wadud, Saiful Islam, Farman Ali, and Kyoung Sik Park. "Multiomics Analysis Reveals that GLS and GLS2 Differentially Modulate the Clinical Outcomes of Cancer." Journal of clinical medicine 8, no. 3 (2019): 355. (**SCIE**; Impact Factor **5.583**, Quartile **Q1**(15/155**,** Medicine, General & Internal) (**Cited by 8**)
Related field(s) of research: Pattern Recognition, Bioinformatics.

4. Farkhod Makhmudkhujaev, M. Abdullah-Al-Wadud, Md Tauhid Bin Iqbal, Byungyong Ryu, and Oksam Chae. "Facial expression recognition with local prominent directional pattern." Signal Processing: Image Communication (2019) (**SCIE**; Impact Factor **2.265**, Quartile **Q2**(118/260**,** Engineering, Electrical & Electronic). (**Cited by 8**)
Related field(s) of research: Computer Vision, Machine Learning.

5. Gihun Song, Kaushik Roy, Kiok Ahn, M. Abdullah-Al-Wadud, Md Tauhid Bin Iqbal, and Oksam Chae. "Structural pattern-based approach for Betacam dropout detection in degraded archived media." IET Image Processing 13, no. 1 (2018): 224-232 (**SCIE**; Impact Factor **1.472**, Quartile **Q3**).
Related field(s) of research: Computer Vision.

6. Pran Touhid Iqbal, M. Abdullah-Al-Wadud, Oksam Chae, "Facial Expression Recognition with Neighborhood-aware Edge Directional Pattern (NEDP)," IEEE Transactions on Affective Computing, 2018 (**SCIE**; Impact Factor **5.977**, Quartile **Q1**(12/132**,** Computer Science, Artificial Intelligence), 3/22**,** Comp. Sc., Cybernetics)
Related field(s) of research: Computer Vision.

7. Zahra Batool, Muhammad Usman, Khalid Saleem, M. Abdullah-Al-Wadud, Fazal-e-Amin, and Abdulhameed Al-Eliwi, "Disease–Disease Association Using Network Modeling: Challenges and Opportunities," J. Med. Imaging Health Inf. 8, 627–638 (2018) (**SCIE**; Impact Factor **0.549**, Quartile **Q4**(57/59/132**,** Mathematical & Computational Biology), 121/129**,** Radiology, Nuclear Medicine & Medical Imaging)

8. Fahad Parvez Mahdi, Pandian Vasant, Vish Kallimani, Junzo Watada, Patrick Yeoh Siew Fai, and M. Abdullah-Al-Wadud, "A holistic review on optimization strategies for combined economic emission dispatch problem," Renewable and Sustainable Energy Reviews, Vol. 81(2), pp. 3006-3020, January 2018 (**SCI,** Impact Factor **10.093**,

Quartile **Q1**(1/33**,** Green & Sustainable Science & Technology), 7/97**,** Energy & Fuels)**; Scopus,** CiteScore **9.52**, SJR **3.051**, SNIP **3.454**) (**Cited by 54**)
Related field(s) of research: Optimization, Energy.

9. Uzzal Kumar Dutta, Md Abdur Razzaque, M. Abdullah-Al-Wadud, Md Saiful Islam, M. Shamim Hossain, and B. B. Gupta, "Self-Adaptive Scheduling of Base Transceiver Stations in Green 5G Networks," IEEE Access 6 (2018): 7958-7969. (**SCIE**; Impact Factor **3.244,** Quartile **Q1** (27/146: Computer Sc. & Info. Sys., 54/262: Engineering, Elec. & Elec., 23/89: Telecommunications); **Scopus**, CiteScore **5.13**, SJR **0.801**, SNIP **1.927**)
Related field(s) of research: Cellular networks.

10. Fahad Parvez Mahdi, Pandian Vasant, Junzo Watada, Vish Kallimani, M. Abdullah-Al-Wadud, "A quantum-inspired particle swarm optimization approach for environmental/economic power dispatch problem using cubic criterion function," International Transactions on Electrical Energy Systems, Vol. 28(3), pp. e2497, March 2018 (**SCIE**; Impact Factor **1.085,** Quartile **Q3** (189/262: Engineering, Electrical & Electronic); **Scopus**, CiteScore **1.16**, SJR **0.435**, SNIP **0.907**)
Related field(s) of research: Optimization, Energy.

11. Md. Abdul Hamid, M. Abdullah-Al-Wadud, Mohammad Mehedi Hassan, Ahmad Almogren, Atif Alamri, Abu Raihan M. Kamal, Md. Mamun-Or-Rashid, "A key distribution scheme for secure communication in acoustic sensor networks," Future Generation Computer Systems, 2017 (**SCIE**, Impact Factor **4.969,** Quartile **Q1** (7/103: Computer Science, Theory & Methods)**; Scopus,** CiteScore **5.60**, SJR **1.151**, SNIP **3.383**)
Related field(s) of research: Network security.

12. S. Noor, M. Ahmed, M.N. Saqib, M. Abdullah-Al-Wadud, M.S. Islam, Fazal-e-Amin, "Ontology for Attack Detection: Semantic-Based Approach for Genomic Data Security," Journal of Medical Imaging and Health Informatics, Volume: 7 Issue: 6 Pages: 1309-1323, DOI: 10.1166/jmihi.2017.2221, OCT 2017 (**SCIE**; Impact Factor **0.621,** Quartile **Q4** (52/57: Math. & Computational Biology, 118/127: Radiology, Neucl. Med. & Med. Ima.); **Scopus**, CiteScore **0.61**, SJR **0.189**, SNIP **0.306**)
Related field(s) of research: Ontology, Security.

13. Arif Ali Khan, Jacky W. Keung, Fazal-E-Amin, and M. Abdullah-Al-Wadud, "SPIIMM: Toward a Model for Software Process Improvement Implementation and Management in Global Software Development," IEEE Access, V. 5, pp. 13720-13741, 2017. (**SCIE**; Impact Factor **3.244,** Quartile **Q1** (27/146: Computer Sc. & Info. Sys., 54/262: Engineering, Elec. & Elec., 23/89: Telecommunications); **Scopus**, CiteScore **5.13**, SJR **0.801**, SNIP **1.927**) (**Cited by 39**)
Related field(s) of research: Software Engineering.

14. Md Hasanul Kabir, Md Sirajus Salekin, Md Zia Uddin, and M. Abdullah-Al-Wadud. "Facial Expression Recognition from Depth Video with Patterns of Oriented Motion Flow." IEEE Access. Vol. 5, pp. 8880 – 8889, 2017. (**SCIE**; Impact Factor **3.244,** Quartile **Q1** (27/146: Computer Sc. & Info. Sys., 54/262: Engineering, Elec. & Elec., 23/89: Telecommunications); **Scopus**, CiteScore **5.13**, SJR **0.801**, SNIP **1.927**)
Related field(s) of research: Computer vision, Pattern recognition.

15. Pran Touhid Iqbal, M. Abdullah-Al-Wadud, Oksam Chae, "Directional Age-Primitive Pattern (DAPP) for Human Age Group Recognition and Age Estimation," IEEE Transactions on Information Forensics & Security, Volume: 12, Issue: 11, Nov. 2017 (**SCI**; Impact Factor **5.824**, Quartile **Q1** (5/1043: Comput. Sc. Theory & Methods, 21/260: Enginering, Elec. & Elec.); **Scopus**, CiteScore **6.01**, SJR **1.359**, SNIP **3.162**) (**Cited by 22**)
Related field(s) of research: Computer Vision.

16. Md Saiful Islam, Nassim Ammour, Naif Alajlan, and M. Abdullah-Al-Wadud. "Selection of Heart-Biometric Templates for Fusion," IEEE Access 5 (2017): 1753-1761. (**SCIE**;

Impact Factor **3.244,** Quartile **Q1** (27/146: Computer Sc. & Info. Sys., 54/262: Engineering, Elec. & Elec., 23/89: Telecommunications); **Scopus**, CiteScore **5.13**, SJR **0.801**, SNIP **1.927**) (**Cited by 1**)
Related field(s) of research: Signal Processing.

17. M. M. Hassan, M. Abdullah-Al-Wadud, A. Almogren, B. Song, A. Alamri, "Energy-aware Resource and Revenue Management in Federated Cloud: A Game-Theoretic Approach," IEEE Systems Journal, Volume 11, Issue 2, Pages 951-961, 2017. (**SCIE**; Impact Factor **4.337**, Quartile **Q1**(4/84, Op. research & Manage. Science;10/148, Computer Science & Information Systems; 31/260, Eng. Elec. & Elec.; 13/89, Telecommunications) ; **Scopus,** CiteScore **2.36**, SJR **0.489**, SNIP **1.147**) **(cited by 15)**
Related field(s) of research: Cloud computing.

18. Shanto Rahman, Md. Mostafijur Rahman, M. Abdullah-Al-Wadud, Golam Dastegir Al-Quaderi, Mohammad Shoyaib, "An Adaptive Gamma Correction for Image Enhancement," EURASIP Journal on Image and Video Processing, vol. 2016, no.1, p.35, 2016. (**SCIE**; Impact Factor **1.742**; Quartile **Q2** (123/162: Engineering, Elec. & Elec., 12/26: Imaging Sc. & photographic Tech.); **Scopus**, CiteScore **1.78**, SJR **0.361**, SNIP **1.095**) **(cited by 68)**
Related field(s) of research: Image Processing.

19. Abdullah Al-Tariq, Abu Raihan Mostofa Kamal, Md. Abdul Hamid, M. Abdullah-Al-Wadud, Mohammad Mehedi Hassan, SK Md. Mizanur Rahman, "A Scalable Framework for Protecting User Identity and Access Pattern in Untrusted Web Server using Forward Secrecy, Public Key Encryption and Bloom Filter," Concurrency and Computation: Practice and Experience, 29(23), 2017 (**SCIE**, Impact Factor **1.133**, Quartile **Q3** (66/106: Comp. Sc. & Soft. Eng., 62/104: Comp. Sc., Theory & Methods); **Scopus**, CiteScore **1.19**, SJR **0.306**, SNIP **0.841**)
Related field(s) of research: Network Security.

20. I. Rahman, P. M. Vasant, B. S. M. Singh, M. Abdullah-Al-Wadud, Nadia Adnan, "Review of recent trends in optimization techniques for plug-in hybrid, and electric vehicle charging infrastructures," Renewable and Sustainable Energy Reviews, Volume 58, Pages 1039–1047, 2016. (**SCI,** Impact Factor **10.093**, Quartile **Q1**(1/33**,** Green & Sustainable Science & Technology), 7/97**,** Energy & Fuels)**; Scopus,** CiteScore **9.52**, SJR **3.051,** SNIP **3.454**) **(cited by 184)**
Related field(s) of research: Optimization, Energy.

21. M. M. Hassan, M. Abdullah-Al-Wadud, A. Almogren, S. K. Rahman, A. Alelaiwi, A. Alamri and M. A. Hamid, "QoS and trust-aware coalition formation game in data-intensive cloud federations," Concurrency and Computation- Practice and Experience, vol. 28, no 10, pp. **2889-2905**, 2016. (**SCIE**, Impact Factor **1.133**, Quartile **Q3** (66/106: Comp. Sc. & Soft. Eng., 62/104: Comp. Sc., Theory & Methods); **Scopus**, CiteScore **1.19**, SJR **0.306**, SNIP **0.841**) **(cited by 22).**
Related field(s) of research: Cloud computing.

22. M. M. Hassan, M. A. Hossain, M. Abdullah-Al-Wadud, S. Alyahya, and A. Ghamdi, "A scalable and elastic cloud-assisted publish/subscribe model for IPTV video surveillance system" Cluster Computing, 18(4), 1539-1548, 2015. (**SCIE**; Impact Factor **2.04**; Quartile **Q2** (65/146: Compu. Sc, Info. Sys., 32/104: Comp. Sc., Theory & Methods), **Scopus**, CiteScore **2.45**, SJR **0.564**, SNIP **1.153**) **(cited by 19).**
Related field(s) of research: Cloud computing.

23. Kiok Ahn, Md Monirul Hoque, Gihun Song, M. Abdullah-Al-Wadud and Oksam Chae, "Learning discriminant DCT coefficients driven block descriptor for digital dropout detection system in degraded archived media," Expert Systems with Applications, vol. 42, no. 14, pp. 5811-5821, 2015. (**SCI**; Impact F. **3.928**, Quartile **Q1** (18/133: Comp. Sc.,

Artificial Intell., 37/262: Eng, Elec. & Elec., 3/83: Oper. Research & manage. Sc.)**; Scopus**, CiteScore   **4.70**, SJR **1.433**, SNIP **2.492**) **(cited by 1)**
Related field(s) of research: Image processing.

24. Md. Motaharul Islam, M. Abdullah-Al-Wadud, Eui Nam Huh, "Energy-efficient Multilayer Routing Protocol for SPMIPv6-based IP-WSN," International Journal of Sensor Networks, Vol. 18, Nos. 3/4, pp. 114-129, 2015 (**SCI**; Impact Factor **1.386** (2011), **0.635** (2016), Quartile **Q4** (134/146: Comp. Sc., Info. Sys., 83/89: Telecommunications); **Scopus**, CiteScore **0.73**, SJR **0.224**, SNIP **0.544**). **(cited by 1)**
Related field(s) of research: Wireless sensor networks.

25. Md. Nazmus Sakib Miazi, Madiha Tabassum, Md. Abdur Razzaque, M. Abdullah-Al-Wadud, "An Energy-Efficient Common Control Channel Selection Mechanism for Cognitive Radio Ad Hoc Networks," Annals of Telecommunications-annales des télécommunications, vol. 70, pp. 11-28, 2015. (**SCI**; Impact Factor **1.412**; Quartile **Q3** (58/89: Telecommunications); **Scopus**, CiteScore **1.19**, SJR **0.568**, SNIP **0.932**). **(cited by 5).**
Related field(s) of research: Cognitive Radio Ad Hoc networks.

26. I. Rahman, P. M. Vasant, B. S. M. Singh and M. Abdullah-Al-Wadud, "Swarm Intelligence-based Smart Energy Allocation Strategy for Charging Stations of Plug-in Hybrid Electric Vehicles," Mathematical Problems in Engineering, 2015. (**SCIE**; Impact Factor **1.082** (2013), **0.802** (2016), Quartile **Q3** (59/85: Engineering, Multidisciplinary, 73/100: Math. Interdisc. Applications); **Scopus**, CiteScore **0.77**, SJR **0.277**, SNIP **0.482**). **(cited by 13).**
Related field(s) of research: Optimization, Energy.

27. M. M. Naushad Ali, M. Abdullah-Al-Wadud, Seok-Lyong Lee, "Multiple object tracking with partial occlusion handling using salient feature points," Information Sciences, vol. 278, pp. 448-465, (2014) (**SCI**, Impact Factor **4.832**, Quartile **Q1** (7/146: Comp. Sc., Info. Sys.); **Scopus**, CiteScore **5.37**, SJR **1.91**, SNIP **2.537**). **(cited by 34).**
Related field(s) of research: Computer vision.

28. M. Abdullah-Al-Wadud, Md. Abdul Hamid, "A fault-tolerant structural health monitoring protocol using wireless sensor networks," Annals of Telecommunications-annales des télécommunications, 69(3-4), 219-228, April 2014 (**SCI**; Impact Factor **1.412**; Quartile **Q3** (58/89: Telecommunications); **Scopus**, CiteScore **1.19**, SJR **0.568**, SNIP **0.932**).
Related field(s) of research: Artificial intelligence, Wireless sensor networks.

29. SM Zahid Ishraque, Mohammad Shoyaib, Abdullah-al-Wadud, Md Monirul Hoque, Oksam Chae, "A Local Adaptive Image Descriptor," New Review of Hypermedia and Multimedia, v. 19(3-4), pp. 286-298, 2013 (**SCIE**; Imp. F. **0.758**, Quartile **Q4** (127/146: Comp. Sc., Info. Sys.); **Scopus**, CiteScore **0.95**, SJR **0.237**, SNIP **0.755**). **(cited by 2)**
Related field(s) of research: Computer Vision.

30. M. Abdullah-Al-Wadud, "A TDMA Scheme for Mobile Sensor Networks," International Journal of Distributed Sensor Networks, Vol. 2013, 21 June 2013 (**SCIE**; Impact Factor **1.239**, Quartile **Q3** (103/146: Comp. Sc., Info. Sys., 61/89: Telecommunications); **Scopus**, CiteScore **1.16**, SJR **0.271**, SNIP **0.696**). **(cited by 1)**
Related field(s) of research: Wireless sensor networks.

31. Mohammad Shoyaib, M. Abdullah-Al-Wadud, Oksam Chae, "A skin detection approach based on the Dempster–Shafer theory of evidence," Int. Journal of Approximate Reasoning, Elsevier, V. 53(4), pp. 636–659, 2012. (**SCI**; I Factor: **2.845**, Quartile **Q2** (34/133: Comp. Sc., Artif. Intell.); **Scopus**, CiteScore **2.55**, SJR **1.325**, SNIP **1.825**) **(cited by 60)**. (The 11th most downloaded paper of the Journal in 2012)
Related field(s) of research: Artificial intelligence, Computer vision.

32. M. Shoyaib, M. Abdullah-Al-Wadud, O. Chae, R. Byungyong, "Skin detection using statistics of small amount of training data," Electronics Letters, IET, V. 48(2), pp. 87–

88, 19 January 2012. (**SCI**; Impact Factor: **1.155**, Quartile **Q3** (179/262: Engineering, Elec. & Elec.); **Scopus**, CiteScore **1.35**, SJR **0.442**, SNIP **0.882**). **(cited by 8).**
Related field(s) of research: Artificial intelligence, Computer vision.

33. Mohammad Shoyaib, M. Abdullah-Al-Wadud, Oksam Chae, "A Noise-Aware Coding Scheme for Texture Classification," Sensors (ISSN: 1424-8220), Vol. 11, No. 8, pp. 8028-8044, 15 August 2011 (**SCIE**; Impact Factor: **2.677**, Quartile **Q1**(10/58: Instruments & Instrumentation), **Q2** (25/76: Chemical, Analytical, 12/29: Electrochemistry); **Scopus**, CiteScore **2.78**, SJR **0.576**, SNIP **1.393**). **(cited by 8).**
Related field(s) of research: Computer vision.

34. S. M. Kamruzzaman, Md. Abdul Hamid, M. Abdullah-Al-Wadud, "An energy-efficient MAC protocol for QoS provisioning in cognitive radio ad hoc networks," Radioengineering, published by Brno University of Technology, vol. 19, no. 4, pp. 567-578, Dec. 2010 (**SCIE**; Impact Factor: **0.945**, Quartile **Q4** (200/262: Engineering, Elec. & Elec.)**; Scopus**, CiteScore **1.12**, SJR **0.276**, SNIP **0.751**). **(cited by 18).**
Related field(s) of research: Cognitive radio ad hoc networks.

35. M. A. Hamid, M. Abdullah-Al-Wadud, I. Chong, "A Schedule-based Multi-channel MAC Protocol for Wireless Sensor Networks," Sensors (ISSN: 1424-8220), 10, 9466-9480, 21 October 2010 (**SCIE**; Impact Factor: **2.677**, Quartile **Q1**(10/58: Instruments & Instrumentation), **Q2** (25/76: Chemical, Analytical, 12/29: Electrochemistry); **Scopus**, CiteScore **2.78**, SJR **0.576**, SNIP **1.393**). **(cited by 19).**
Related field(s) of research: Wireless Sensor Networks.

36. Md. Hasanul Kabir, M. Abdullah-Al-Wadud, Oksam Chae, "Brightness Preserving Image Contrast Enhancement using Weighted Mixture of Global and Local Transformation Functions," International Arab Journal of Information Technology, Vol. 7, No. 4, pp. 403-410, October 2010 (**SCIE** (Coverage currently discontinued); Impact Factor: **0.127; Scopus**, CiteScore **0.83**, SJR **0.337**, SNIP **1.250**) **(cited by 44)**.
Related field(s) of research: Image processing

37. Md. Abdul Hamid, M. Abdullah-Al-Wadud, Choong Seon Hong, Oksam Chae, Sungwon Lee, "A Robust Security Scheme for Wireless Mesh Enterprise Networks," Annals of Telecommunications, Springer, Vol. 64(5-6), pp. 401-413, 23 January 2009. (**SCI**; Impact Factor **1.412**; Quartile **Q3** (58/89: Telecommunications); **Scopus**, CiteScore **1.19**, SJR **0.568**, SNIP **0.932**) **(cited by 6).**
Related field(s) of research: Wireless Mesh Networks, Security.

38. M. Abdullah-Al-Wadud, Mohammad Shoyaib, and Oksam Chae, "A Skin Detection Approach Based on Color Distance Map," EURASIP Journal on Advances in Signal Proc., vol. 2008, Online since March 2009. (**SCIE**; Impact Factor **1.961**, Quartile **Q2**(112/262: Engineering, Elec. & Elec.); **SCOPUS,** CiteScore **1.21**, SJR **0.313**, SNIP **0.780**) **(cited by 21).**
Related field(s) of research: Computer Vision.

39. M. Abdullah-Al-Wadud, Md. Hasanul Kabir, M. Ali Akber Dewan, Oksam Chae, "A Dynamic Histogram Equalization for Image Contrast Enhancement," IEEE transaction on Consumer Electronics, May 2007, Vol. 53(2), pp. 593-600. (**SCI**; Impact Factor **1.694**, Quartile **Q2**(128/262: Engineering Elec. & Elec., 43/89: Telecommunications); **SCOPUS,** CiteScore **2.56**, SJR **0.587**, SNIP **1.447**) **(cited by 708).**
Related field(s) of research: Image processing.

40. M. Abdullah-Al-Wadud, Oksam Chae, "Minimizing the Search Space for Shape Retrieval Algorithms," Springer-Verlag Lecture Notes in Computer Science (LNCS), ISCIS, Turkey, November 2006, pp. 247-256. (**SCIE** (Coverage currently discontinued); Impact Factor **0.402**; **SCOPUS** CiteScore **0.67**, SJR **0.315,** SNIP **0.552**).
Related field(s) of research: Computer Vision, Algorithms.

41. Md. Hasanul Kabir, M. Abdullah-Al-Wadud, Oksam Chae, "Image Contrast Enhancement Based on Block-Wise Intensity-Pair Distribution with Two Expansion Forces," Springer-Verlag Lecture Notes in Computer Science (LNCS), CIARP, Mexico, November 2006, pp. 105-114 (**SCIE**; Impact Factor **0.402**; **SCOPUS** CiteScore **0.67**, SJR **0.315,** SNIP **0.552**)
Related field(s) of research: Image processing

Journal Articles Indexed in *Thomson Reuters (ISI) Web of Science* (Emerging Sources Citation Index (ESCI))

42. Fahad Parvez Mahdi, Pandian Vasant, M. Abdullah-Al-Wadud, Junzo Watada, Vish Kallimani, and Patrick Yeoh Siew Fai, "Quantum particle swarm optimization for economic dispatch problem using cubic function considering power loss constraint," International Journal of GEOMATE, v. 13, no. 37, pp. 44-50, 2017. (**Thomson Reuters Web of Science (ESCI)**; **SCOPUS,** CiteScore **0.55,** SJR **0.277,** SNIP **1.458) (cited by 1**)
Related field(s) of research: Optimization.

43. Imran Rahman, Pandian M. Vasant, Balbir Singh Mahinder Singh, and M. Abdullah-Al-Wadud. "Novel metaheuristic optimization strategies for plug-in hybrid electric vehicles: A holistic review." Intelligent Decision Technologies 10, no. 2 (2016): 149-163. (**ESCI**, **SCOPUS,** CiteScore **0.31,** SJR **0.149,** SNIP **0.163**) (**cited by 1**)
Related field(s) of research: Optimization.

44. Imran Rahman, Pandian M. Vasant, Balbir Singh Mahinder Singh, and M. Abdullah-Al-Wadud, "Optimal power allocation scheme for plug-in hybrid electric vehicles using swarm intelligence techniques," Cogent Engineering, vol. 3, Issue 1, 2016. (**ESCI; SCOPUS,** CiteScore **0.54,** SJR **0.190,** SNIP **0.507)(cited by 2**)
Related field(s) of research: Optimization.

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121. M. Abdullah-Al-Wadud, Md. Hasanul Kabir, M. Ali Akber Dewan, Oksam Chae, "A Dynamic Histogram Equalization for Image Contrast Enhancement," IEEE International Conference on Consumer Electronics, ICCE 2007, USA, Digest of Technical Papers. pp. 1-2. **(cited by 3)**.
Related field(s) of research: Image processing.

122. Md. Hasanul Kabir, M. Abdullah-Al-Wadud, M. A. U. Khan, Oksam Chae, M. Bettayeb, "Block based Intensity-Pair Distribution for Image Contrast Enhancement," In proc. of the IEEE International Conference on Emerging Technologies, pp. 76-83, 13-14 Nov., 2006. (Indexed In **Scopus**) **(cited by 2)**.
Related field(s) of research: Image processing.

123. M. Abdullah-Al-Wadud, Youngtak Cho, Jeesoo Awe, Oksam Chae, "A Comprehensive System for Learning Image Processing," Proceedings of the IEE 7th International Workshop on Image Analysis for Multimedia Interactive Services, pp 225-228, Korea, April 19-21, 2006.
Related field(s) of research: Image processing, Education.

124. Md. Anwarul Hoque, M. Abdullah-Al-Wadud, M. Ali Akber Dewan, Oksam Chae, "A Hierarchical Approach of Watershed Algorithm for Image Segmentation," Proceedings of the IEE 7th International Workshop on Image Analysis for Multimedia Interactive Services, pp 25-28, Korea, April 19-21, 2006.
Related field(s) of research: Image processing.

125. M. Ali Akber Dewan, Md. Anwarul Hoque, M. Abdullah-Al-Wadud, M. Julius Hossain, Oksam Chae, "Real Time Moving Object Detection in Varying Environment for Intelligent Video Monitoring System," Proceedings of IEE the 7th International Workshop on Image Analysis for Multimedia Interactive Services, pp 229-232, Korea, April 19-21, 2006.
Related field(s) of research: Computer vision.

126. M. Abdullah-Al-Wadud, Oksam Chae, "An approach to minimize the search space for shape retrieval algorithms," Technical Paper Collections, IT International Student Fair, pp 128-131, Korea, August, 2005.
Related field(s) of research: Computer Vision, Algorithms.

127. Hafiz Md. Hasan Babu, Mosarrat Jahan, M. Abdullah-Al-Wadud, "A Modified Approach of Quine-McClusky Method to Minimize the Multiple-Output Functions," International Conference on Computer and Information Technology (ICCIT), Bangladesh, 2004.
Related field(s) of research: Logic design.

GRADUATE THESIS SUPERVISION	**As Supervisor**
	1. Nourah Saleh Almoallem, "An Intelligent Method for Project Conceptual Cost Estimation," Masters Thesis in King Saud University, Saudi Arabia, ongoing.
	2. Hamid Ghaleb, "A new similarity measure for collaborative filter-based recommender systems," Masters Thesis in King Saud University, Saudi Arabia, 2020.
	3. Nouf Mobarak AlMobarak, "Predicting the Satisfaction of Telecom Company Customers by Analyzing Arabic Tweets," Masters Thesis in King Saud University, Saudi Arabia, 2019.
	4. Sarah Ibrahem Alkoblan, "A Model for Usability Evaluation of Learning Management Systems in Saudi Arabia," Masters Thesis in King Saud University, Saudi Arabia, 2019.
	5. Amany Faisal Naif Al-Batlaa, "A Method to Suggest Solutions for Software Bugs," Masters Thesis in King Saud University, Saudi Arabia, 2019.
	6. Norah Mohammad Alshaye, "A Gender Recognition System Based on Facial Images," Masters Thesis in King Saud University, Saudi Arabia, 2019.
	7. Samiah Abdullah Al-Anazi, "An Improved Method for Recommender Systems," Masters Thesis in King Saud University, Saudi Arabia, 2017.
	8. Abrar Ali Al Amro, "Intrusion detection with kernel PCA," Masters Thesis in King Saud University, Saudi Arabia, 2016.
	9. Ejlal Mahmoud Badry Salih, "Date Fruit Classification Using Computer Vision Technique," Masters Thesis in King Saud University, Saudi Arabia, 2016.
	As Co-Supervisor
	10. Fahad Parvez Mahdi, "Quantum Computational Intelligence for Economic Emission Dispatch Problems," Masters by Thesis in Universiti Teknologi Petronas (UTP), Malaysia, January 2016. (Supervisor Prof. Pedian. M. Vasant)
	11. M.M. Naushad Ali, "Flexible representation and tracking of multiple objects in a video stream through salient features," MS thesis, Hankuk University of Foreign Studies, South Korea, August 2013. (Supervisor Prof. Seok-Lyong Lee)
	As Field Supervisor
	12. Imran Rahman, "A Computational Intelligence-based Approach for Large-Scale Plug-in Hybrid Electric Vehicles (PHEVs)," Masters by Thesis in Universiti Teknologi Petronas (UTP), Malaysia, January 2016. (Supervisor Prof. Pedian. M. Vasant)

AWARDS AND HONORS	• **Two Best Paper Awards** in the 18th IEEE International Conference on Computer and Information Technology (ICCIT), Dhaka, Bangladesh, December 2015.
	• **Best Paper Award** in the International Symposium on Advanced and Applied Convergence (ISAAC), South Korea, November 2014
	• **Korean Government Scholarship** for IT International Students for MS-PhD (Supported By the IITA - Institute for Information Technology Advancement), March 2005 - February 2009.
	• **President Scholarship** for Supporting Tuition Fees in Kyung Hee University, March 2005 - February 2009.
	• Merit Scholarship during Masters studies, the University of Dhaka, 2000-2001
	• Merit Scholarship during Bachelors studies, the University of Dhaka, 1996-2000
	• Secured the **9th position** in the combined merit list of Science Group in the Higher Secondary Certificate exam, 1996

PROFESSIONAL CERTIFICATIONS	• Security Intelligence Analyst - Explorer Award, IBM Skills Academy, 2016. • Security Intelligence Analyst - Mastery Award for Educators, IBM Skills Academy, 2016.

INVOLVEMENTS IN PROJECTS	• Information Processing and Communication
	   o A research group supported by the **Deanship of Scientific research**, King Saud University, Saudi Arabia, February 2017 – till date.
	   o Role: Principal Investigator
	• Energy Efficient Multipath Routing Protocol for Cognitive Radio Ad Hoc Networks
	   o A research project supported by the **Research Center, College of Computer and Information Sciences, King Saud University**, Saudi Arabia, 2014-16.
	   o Role: Principal Investigator
	• Secure Data Aggregation for Dynamic Node WSN
	   o A research project supported by the **Research Center, College of Computer and Information Sciences, King Saud University**, Saudi Arabia, 2014-2016.
	   o Role: Principal Investigator
	• ICT Assisted Safe Driving for Mitigating Road Accidents in Bangladesh
	   o A research project supported by the **Ministry of Science and Technology**, Bangladesh, 2014-2015.
	   o Role: Co-Investigator
	
	• Tracking mitochondria to assist doctors in analyzing diseases.
	   o A research project supported by the **National Research Foundation (NRF)**, Korea, 2009-2010.
	   o Role: Research and Development
	• Motion estimation for hand-held imaging devices.
	   o A research project supported by the **Samsung Electronics**, Korea, 2008- 2009.
	   o Role: Research and Development
	• Reshaping and beautifying facial images through morphological warping.
	   o A research project supported by the **Mediachorus**, Korea, 2007-2008.
	   o Role: Research and Development

ACTIVITIES	*Membership in Professional Societies*
	• Member of IEEE • Member of IEEE Consumer Electronics Society
	Membership in Editorial Boards of Journals & International Program Committees
	• Organizing Chair, Special Session on Recent Trends in Computer-based Classification at ICIEV 2016, May 14-16, 2016, Dhaka, Bangladesh. Fukuoka, Japan • Organizing Chair, Special Session on Sensor Cloud Technologies for Safe Transportation at ICIEV 2015, June 15-17, 2015, Fukuoka, Japan • Organizing Chair, Special Session on Artificial Intelligent Techniques and its application in Engineering and Operational Research at ACIIDS 2015, Mar, 2015 Bali, Indonesia. • WASET (World Academy of Science, Engineering and Technology) Journals of Natural and Applied Sciences section since 2009. • International Journal of Computing Communication & Networking Research since 2011

	- International Journal of Advanced Scientific Engineering and Technological Research since 2011
	- Member of the International Program Committee of the IEEE International Conference on Software, Knowledge, Information Management & Applications (SKIMA), Bangladesh/Nepal, since 2015.
	- Member of the International Program Committee of the IEEE International Conference on Computer and Information Technology (ICCIT), Bangladesh, since 2010.
	- Member of the International Program Committee of the International Conference on Informatics, Electronics & Vision (ICIEV), Bangladesh/Japan, since 2011.
	- Member of the International Program Committee of the International Conference on Electrical Information and Communication Technology (EICT), Bangladesh, since 2013.
	- Chaired different sessions in the International Conference on Interaction Sciences: Information Technology, Culture and Human (ICIS 2009), Korea, and the International Conference on Convergence Information Technology (ICCIT 2009), Korea.
	Invited Talks
	- November 2016, "Approaches of Information fusion for decision making," **Keynote speech**, The International Conference on Computer Science and Technology (ICCST 2016), Seoul, South Korea
	- October 2016, "Information fusion for decision making," **Keynote speech**, 18th International Conference on Internet of Things, New York, USA.
	- April 2016, "Teaching Information Technology (IT) Courses in Non-IT Departments," **Plenary Lecture**, 7th Int. Conf. on Education and Educational Tech, Istanbul, Turkey.
	- January 2014, "Applications of Dempster-Shafer Theory of Evidence," **Keynote speech**, The International Conf. on Comp. Engnr and Applications, London, UK.
	- January 2014, "Decision Making Based on Dempster-Shafer Theory of Evidence," **Plenary speech**, The International Conference on Computer Engineering and Applications (CEA '14), Spain.
	- January 2011, "Facial Expression recognition," East-West University, Bangladesh.
	- February 2009, "Current Trends on Advancements of Histogram Equalizations for Image Enhancement," East-West University, Bangladesh.
	Others
	- Reviewer of various journals including IEEE Access, IEEE Communication Magazine, Journal of Visual Communication and Image Representation (Elsevier), Circuits, Systems & Signal Processing (Springer), Multimedia Tools and Applications (Springer), International Journal of Distributed Sensor networks (Hindawi), IET Image processing, Sensors, Journal of Ambient Intelligence and Humanized Computing (Springer), Journal of Computer Engineering Research, etc.

EXTRACURRICUL. ACTIVITIES	- Was one of the four directors of **Korea-Bangladesh Parliamentary Friendship Association.**
	- Conducted classes as a **Cultural Exchange Volunteer (CEV)** in the Cross Cultural Awareness Program (**CCAP**) of **UNESCO**.
	- Was an active member of CSDU Computer Club.
	- Successfully arranged two programming contests in the University of Dhaka.

PROGRAMMING CONTESTS	
2004	• "National Collegiate programming Contest," International Islamic University of Chittagong, Bangladesh, coach of the team securing the 3rd Place
2002	• "Inter University Programming Contest-2002" held in American International University of Bangladesh (**AIUB)**- 3rd Place
2001	• "The 26th ACM International Collegiate Programming Contest"-Asia Regional 2001-**BUET, Dhaka**- 6th Place • "The 26th ACM International Collegiate Programming Contest"- Asia Regional 2001-**Kanpur, India**- 4th Place.
2000	• "The 25th ACM International Collegiate Programming Contest"- Asia Regional 2000-**Kanpur, India**- 14th Place • "The 25th ACM International Collegiate Programming Contest"- Asia Regional 2000-**NTU, Singapore**.
ONLINE CONTESTS AS A TEAM ENTITLED "MONOWAR & SUJON"	1st Place at the contest held on 2001/05/01 2nd Place at the contest held on 2001/01/19 6th Place at the contest held on 2001/3/15 10th Place at the contest held on 2001/2/4 10th Place at the contest held on 2001/2/9 Participated in many other online programming contests. *Ref: http://acm.uva.es/contest/past.html.*

COMPUTER SKILLS	• **Courses during the MS-PhD in Kyung Hee University:** Advanced Digital Image Processing, Probability and Statistics and Its Applications, Graph and Network Theory, Distributed Network Management, Intelligent System, Advanced Computer Graphics, Korean Culture and Language Program, Digital Image Processing, Neural Network Theory & Applications, Pattern Recognition, Bio-Signal Processing I, Artificial Life, Artificial Intelligence for Robot, Development of Games, Advanced Computer Technology I, Machine Learning, Advanced Computer Technology II, Machine Vision, Hybrid Intelligent System, Communication Special Lecture 1, Understanding of Korean Language and Culture 2, Information Retrieval Theory. • **Courses during the bachelors in the University of Dhaka:** Computer Fundamentals, Digital Systems, Discrete Mathematics, Data Structure, Computer Organization & Architecture, Operating System & System Programming, Database Concept, Microprocessor, Theory of Computing, Data Communication, Compiler Design, Combinatorial Optimization, Programming Language Concept, Software Engineering, Information Systems and Systems Analysis, Artificial intelligence, Parallel & Distributed Processing, Design and Testing of VLSI Systems. • **Proficiencies in programming languages and other tools:** C, C++, VISUAL C++, JAVA, MATLAB, QRadar, JSP, XML, PASCAL, OpenGL, HTML, ASSEMBLY, OpenCV, MTES, PROLOG, ORACLE, Network Programming in Windows and Linux, etc.

I hereby declare that all information given herewith is accurate and up-to-date.

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(Mohammad Abdullah-Al-Wadud)