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Publications List

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Publications

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1 5 10 25 50 100 All entries Year	Research Papers	Theme

| K. A. Mamun, A. H. M. Sayeed, S. Yeasmin and F. Sarker; 'A Novel Segmented Display for Arabic Numeral'; Publication; ResearchGate | NLP

| K. A. Mamun, S. Ahmmed, F. Sarker, A. Y. Saber; 'Segmented Display for Alphanumeric Bangla, English and Arabic Characters'; Research Journal of Applied Sciences; Medwell Publications |

| S. Ahmmed, K. A. Mamun, M. M. Islam; 'A Novel Algorithm for Designing Three Layered Artificial Neural Networks'; International Journal of Soft Computing; Medwell Publications | AI

| K. A. Mamun, F. Sarker, and G. Muhammad; 'A High-Resolution Pitch Detection Algorithm based on AMDF and ACF'; Journal of Scientific Research; JSR Publications | NLP

| K. A. Mamun, M. Mace, R. Craig, M. E. Lutman, R. Vaidyanathan, and S. Wang; 'Tongue Movement Ear Pressure Signal Classification using Wavelet Packet Transform'; IEEE Xplore; IEEE | Machine Learning

| K. A. Mamun, M. Mace, L. Gupta, C. A. Verschuur, M. E. Lutman, M. Stokes, R. Vaidyanathan, S. Wang, âœRobust Real-time Identification of Tongue Movement Commands from Interferences,âœ Neurocomputing, Elsevier, vol. 80, pp-83-92, doi: 10.1016/j.neucom.2011.09.018, March 2012, (Impact Factor: 2.083). | Machine Learning

| B. Ghali, K. A. Mamun, T. Chau, âœGrip Kinetic Profile Variability in Adult Signature Writing,âœ Journal of Biometrics & Biostatistics, vol. 4, no. 4, pp.1-6. 2013, doi:10.4172/2155-6180.1000174, (Impact Factor: 1.27). | NLP

| M. Mace, K. A. Mamun, A. A. Naeem, L. Gupta, S. Wang, R. Vaidyanathan, âœA heterogeneous framework for real-time decoding of ioacoustics signals: Applications to assistive interfaces and prosthesis control,âœ Expert System with Applications, vol. 40, no. 13, pp. 5049-5060, Elsevier, 2013, doi: 10.1016/j.eswa.2013.03.028, (Impact Factor: 2.240). | BCI

| W. D. Armas, K. A. Mamun, T. Chau, âœVocal Frequency Estimation and Voicing State Prediction with Surface EMG Pattern Recognition,âœ Journal of Speech Communication, vol. 63-64, pp. 15-26, 2014 (Impact Factor: 1.256). | BCI

| J. Lu, K. A. Mamun, T. Chau, âœOnline Transcranial Doppler Ultrasonographic control of an onscreen keyboard,âœ Frontiers in Human Neuroscience, 2014, doi: 10.3389/fnhum.2014.00199 (Impact Factor: 3.00). | BCI

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Refereed conference Papers

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1 5 10 25 50 100 All entries Year	Research Papers	Theme

| M. A. Basar, H. N. Alvi, G. N. Bokul, M. S. Khan, F. Anowar, M. N. Huda and K. A. Mamun, âœA Review on Diabetes Patient Lifestyle Management Using Mobile Applicationâœ, In Proceedings of IEEE 18th International Conference on Computer & Information Technology (ICCIT 2015), December 2015, MIST, Dhaka, Bangladesh |

| Khondaker A. Mamun, Sharmistha Bardhan, Md. Anwar Ullah, Evdokia Anagnostou, Jessica Brian, Shaheen Akhter, Mohammad Golam Rabbani, Smart Autism - A mobile, interactive and integrated framework for screening and confirmation of autism, 2016. The 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'16), USA, August 16-20, 2016. |

| Abu Shafin Mohammad Mahdee Jameel, Khondaker A. Mamun, An Algorithm to Decode Movement and Laterality from Deep Brain Local Field Potentials Utilizing Time and Frequency Domain Features, IEEE TENCON 2016, Singapore, November 22 âœ 25, 2016. |

| Sharmistha Bardhan, Md. Anwar Ullah, Helal Uddin Ahmed, Mohammad Golam Rabbani, Khondaker A. Mamun, Autism Express - A cloud-based framework for autism screening, confirmation and intervention, IEEE TENCON 2016, Singapore, November 22 âœ 25, 2016. |

| Sharmistha Bardhan, G. M. Monjur Morshed Mridha, Eshtiak Ahmed, M. Anwar Ullah, Helal Uddin Ahmed, Shaheen Akhter, Md. Golam Rabbani, Khondaker A. Mamun, Autism Barta - A smart device based automated autism screening tool for Bangladesh, 5th International conference on Informatics, Electronics and Vision (ICIEV 2016), Dhaka University, Dhaka, May 13-14, 2016. |

| Ahnaf Hassan, Mohammad Nurul Huda, Farhana Sarker, Khondaker A. Mamun, An overview of Brain Machine Interface research in developing countries: opportunities and challenges, 5th International conference on Informatics, Electronics and Vision (ICIEV 2016), Dhaka University, Dhaka, May 13-14, 2016. |

| Rebeka Sultana, D.M. Anisuzzaman, Farhana Sarker and Khondaker A. Mamun, Automated Credit Scoring System for Financial services in developing countries, 1st International Conference on Advanced Information and Communication Technology 2016 (ICAICT 2016), Chittagong Independent University, Chittagong, Bangladesh, May 16-17, 2016. |

| Eshtiak Ahmed, Ashraful Islam, Farhana Sarker, Mohammad Nurul Huda and Khondaker A. Mamun, A road to independent living with smart homes for people with disabilities, 5th International conference on Informatics, Electronics and Vision (ICIEV 2016), Dhaka University, Dhaka, May 13-14, 2016. |

| Md. Tazimul Hoque, Md. Rifat-Ut-Tauwab, Md. Fashiul Kabir, Farhana Sarker, Mohammad Nurul Huda and Khondaker A. Mamun, Automated Bangla Sign Language Translation System: Prospects, Limitations and Applications, 5th International conference on Informatics, Electronics and Vision (ICIEV 2016), Dhaka University, Dhaka, May 13-14, 2016. |

| Md. Fasihul Kabir, Khondaker A. Mamun, Mohammad Nurul Huda, Deep learning-based parts of speech tagger for Bengali, 5th International conference on Informatics, Electronics and Vision (ICIEV 2016), Dhaka University, Dhaka, May 13-14, 2016. |

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Refereed Journal Under Review

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1 5 10 25 50 100 All entries PAPERS

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List of Books/ Monographs

1 5 10 25 50 100 All entries Year | Book | Link

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| M. Islam, K. A. Mamun, M. Khan and H. Deng, "A probabilistic neural network approach for prediction of movement and laterality from deep brain local field potentials," published as book section in Modern Trends and Techniques in Computer Science (Part I: Artificial Intelligence), Springer book Series: Advances in Intelligent Systems and Computing, vol. 285, pp. 129-142, 2014. | [https://www.researchgate.net/publication/288386009\\_A\\_Probabilistic\\_Neural\\_Network\\_Approach\\_for\\_Prediction\\_of\\_Movement\\_and\\_Its\\_Laterality\\_from\\_Deep\\_Brain\\_Local\\_Field\\_Potential](https://www.researchgate.net/publication/288386009_A_Probabilistic_Neural_Network_Approach_for_Prediction_of_Movement_and_Its_Laterality_from_Deep_Brain_Local_Field_Potential)

| F. Anwar, M. A. Helal, S. Afroj, S. Sultana, F. Sarker and K. A. Mamun, "A critical review on World University ranking in terms of top four ranking systems," published as book section in New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering, K. Elleithy and T. Sobh (eds.), Lecture Notes in Electrical Engineering 312, DOI 10.1007/978-3-319-06764-3\_72, Springer International Publishing Switzerland 2014. | [https://www.researchgate.net/publication/278656267\\_A\\_Critical\\_Review\\_on\\_World\\_University\\_Ranking\\_in\\_Terms\\_of\\_Top\\_Four\\_Ranking\\_Systems](https://www.researchgate.net/publication/278656267_A_Critical_Review_on_World_University_Ranking_in_Terms_of_Top_Four_Ranking_Systems)

| K. A. Mamun, "Memory Efficient Data Structure for Static Huffman Tree," Lambert Academic Publishing (LAP), 88 pages, ISBN: 978-3659135262, Amazon link: <http://www.amazon.ca/Memory-Efficient-Structure-Static-Huffman/dp/3659135267> | <https://www.amazon.com/Memory-Efficient-Structure-Static-Huffman/dp/3659135267>

| B. Ghali, K. A. Mamun, T. Chau, "A Comparison of Handwriting Grip Kinetics Associated with Authentic and Well-Practiced Bogus Signatures," published as book section in Artificial Intelligence Perspectives and Applications, Springer book Series: Advances in Intelligent Systems and Computing, vol. 347, pp. 257-266, 2015. | [https://link.springer.com/chapter/10.1007/978-3-319-18476-0\\_26](https://link.springer.com/chapter/10.1007/978-3-319-18476-0_26)

| Emerging Technologies in Data Mining and Information Security" Advances in Intelligent Systems and Computing, vol 755. Springer, Singapore. [https://doi.org/10.1007/978-981-13-1951-8\\_72](https://doi.org/10.1007/978-981-13-1951-8_72), (2018). |

| Ariful Islam M., Hossain S.A., Mamun K.A.A. (2019), "A Proposed Web-Based Architecture for Diabetes Awareness, Prevention, and Management". In: Abraham A., Dutta P., Mandal J., Bhattacharya A., Dutta S. (eds) | [https://link.springer.com/chapter/10.1007/978-981-13-1951-8\\_72](https://link.springer.com/chapter/10.1007/978-981-13-1951-8_72)

| Farzana W., Sarker F., Vaidyanathan R., Chau T., Mamun K.A., "Communication Support Utilizing AAC for Verbally Challenged Children in Developing Countries During COVID 19 Pandemic". In: Stephanidis C., Antona M., Ntoa S. (eds) HCI International 2020 "Late Breaking Posters. HCII 2020. Communications in Computer and Information Science, vol 1294. Springer, Cham. [https://doi.org/10.1007/978-3-030-60703-6\\_6](https://doi.org/10.1007/978-3-030-60703-6_6) (2020). | [https://link.springer.com/chapter/10.1007/978-3-030-60703-6\\_6](https://link.springer.com/chapter/10.1007/978-3-030-60703-6_6)

| Farzana W., Sarker F., Hossain Q.D., Chau T., Mamun K.A. "An Evaluation of Augmentative and Alternative Communication Research for ASD Children in Developing Countries: Benefits and Barriers". In: Stephanidis C., Antona M., Ntoa S. (eds) HCI International 2020 "Late Breaking Posters. HCII 2020. Communications in Computer and Information Science, vol 1294. Springer, Cham. [https://doi.org/10.1007/978-3-030-60703-6\\_7](https://doi.org/10.1007/978-3-030-60703-6_7) (2020). | [https://link.springer.com/chapter/10.1007/978-3-030-60703-6\\_7](https://link.springer.com/chapter/10.1007/978-3-030-60703-6_7)

| Zulker Nien, Khondaker Abdullah Al Mamun, "Screening for Common Cancers" in Artificial Intelligence in e-Health Framework, Elsevier (2024) |

| Faria Tuz Zohora, Khondaker Abdullah Al Mamun, "Predicting Women's Fertility with AI" in Artificial Intelligence in e-Health Framework, Elsevier (2024) |

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Contact:

Room - 1012, 10th floor,  
United International University, United City, Madani Avenue, Dhaka-1212.

Email:

director@iriic.uiu.ac.bd  
aimsl@uiu.ac.bd

Contact Number:

09604 848848 - Ext: 3140 (Office hour : 8.30 AM-4.30PM)

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