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In December 2014, department of Computer Science and Engineering of United International University started a research laboratory named Advanced Intelligent Multidisciplinary Systems Lab (AIMS Lab) to foster computer science research and development in Bangladesh as well as to utilize the benefits of information technology for the society. The research lab focuses on theoretical aspects and applications of the areas of machine learning and data mining, natural language processing, intelligent systems, computational intelligence, biomedical engineering, bioinformatics and embedded systems. This lab is driven by a multidisciplinary team of highly qualified researchers in their respective fields and aiming to maximizing possibilities for computer science research in Bangladesh. One of the objectives of this lab is to train the graduate and undergraduate students and young faculty members to develop their capacity to become a future researcher. In addition, it is also working to establish collaborations between academia and industry as well as to do collaborative research with foreign renowned research centers. The vision of its research is to investigate problems and develop innovative technological solutions that could potentially make an impact in the society, improve quality of life, and more importantly make a significant contribution in the scientific arena. Members of AIMS Lab are expecting that the research outcome of AIMS lab will significantly create our research strength in home and abroad. Functionally AIMS Lab conducts research and development in the area of modern computing technologies such as Artificial Intelligence, Bio-informatics, Data Mining, Bio-medical Engineering, Neural Network etc. Major research areas of AIMS Lab are: 1. Intelligent Systems 2. Brain Machine Interface (BMI) 3. Human Computer Interaction (HCI) 4. Computational Neuroscience 5. Biomedical Signal & Image Processing 6. Pattern Recognition & Machine Learning 7. Neurocomputing 8. Rehabilitation Engineering 9. Access communication & Assistive Technologies 10. Feature Extraction & Classification of Bio-signals

1. Biomedical Engineering and Applications
2. Health Informatics & Mobile Technology for Health Care Applications
3. Education Quality Management
4. Distance Learning and Technology Enhanced Learning
5. Knowledge Transfer and Entrepreneurship
6. Society, Environment, Engineering Ethics
7. Rehabilitation Engineering
8. Systems Neuroscience
9. Disabilities and Inclusion
10. IOT & Embedded Systems

AIMS Lab also has strong collaborations with the local societies and renowned international research labs includes, 1. Institute of Biomaterials & Biomedical Engineering, University of Toronto, Canada 2. Bloorview Research Institute, Toronto, Canada 3. Holland Bloorview Kids Rehabilitation Hospital, Toronto, Canada 4. Department of Electronic and Computer Engineering, Florida International University, USA 5. Bangabandhu Sheikh Mujib Medical University (BSMMU), Dhaka, Bangladesh 6. University of Southampton, UK 7. University of Oxford, UK 8. Queen Mary University of London, UK 9. Suzhou Institute of Biomedical Engineering and Technology (SIBET), Chinese Academy of Sciences, Suzhou, China 10. Imperial College London, London, UK 11. Christian Medical College, Vellore, India 12. College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia 13. Indian Institute of Technology, Delhi, India 14. Department of Biomedical Physics and Technology, University of Dhaka, Bangladesh 15. Department of CSE, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh 16. Jatiyo Protibondhi Unnayan Foundation (JPUF), Ministry of Social Welfare, Government of Bangladesh 17. Bangladesh Clinical Neuro Electrophysiology Society (BCNEPS) 18. The Institute of Electrical and Electronics Engineers, Bangladesh section (IEEE BDS) 19. IEEE Engineering in Medicine and Biology Society Bangladesh Section (IEEE EMBS BDS) 20. Ethics Advanced Technology Limited (EATL), Dhaka 21. Educational Research Foundation (ERF), Dhaka 22. Information & Communication Technology Division (ICT Division) 23. Department of Information & Communication Technology (DoICT) 24. Bangladesh Hi-Tech Park (BHTPA) 25. Access to Information (a2i) 26. Community Based Health Care (CBHC), DGHS 27. Management Information System (MIS), DGHS 28. UNICEF Bangladesh 29. World Bank 30. Bangladesh Cancer Society 31. Neuro-Developmental Disability Protection Trust (NDDPT) 32. United Trust 33. BRAC 34. Health Economics Unit (HEU), University of Dhaka 35. Partners in Health & Development (PHD) 36. Nari Maitree 37. Dutch-Bangla Chamber of Commerce and Industries (DBCCI) 38. SNV Netherlands Development Organization, Bangladesh 39. Johns Hopkins University Bloomberg School of Public Health, USA 40. Harvard University, USA 41. South China University of Technology (SCUT), China 42. Delhi Pharmaceutical Science and Research University, Delhi, India 43. Bangladesh Association of Software and Information (BASIS) 44. e-Commerce Association of Bangladesh (e-CAB) 45. Bangladesh Innovation Forum 46. Health Economists Forum 47. Seedstars World 48. Seedstars

Dhaka 49. Biomedical Engineering, Khulna University of Engineering & Technology 50. The Institution of Engineers, Bangladesh (IEB) 51. NIPSOM

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