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Dr. Suman Ahmmed

Head and Associate Professor, Dept. of CSE & Director, CDIP

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Experiences

Present Position : **Associate Professor** , Department of CSE & **Director** , Centre for Development of IT Professionals (**CDIP**), UIU 2016 (June) â€" Present	**Associate Professor,** CSE and **Director** , Centre for Development of IT Professionals (CDIP), UIU
2004(April)-2016(June)	**Director of Student Affairs** , United International University
2023(Dec) â€" Present	**Associate Professor**
Department of Computer Science & Engineering,
United International University.
2003(May)-2023(Dec) | **Assistant Professor**
Department of Computer Science & Engineering,
United International University.
2003(Sep)-2004(May) | **Registrar (In charge)**
United International University.
2001(May)-2003(April) | **Head & Assistant Professor**
Department of Computer Science & Engineering,
Asian University of Bangladesh, Dhaka.
1999(June)-2001(April) | **Lecturer**
Department of Computer Science & Engineering,
The University of Asia Pacific, Dhanmondi, Dhaka.
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Academic

DBA (by Research) , **ICT Project Management** : A Framework for ICT-based Pedagogy System Development and

Management, PPA Business School, Paris, France **PhD Researcher**(former): Dept. of CSE at Jahangir Nagar University, Savar Dhaka; University Lumiere Lyon 2, Lyon, France. **M.Sc.** Engg. in Computer Science and Engineering (CSE), Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. **B.Sc.** Engg. in Computer Science and Engineering (CSE), Bangladesh University of Engineering and Technology (BUET), Dhaka. **H.S.C.** from Kushtia Govt. College with 1st Division, Jessore Board, 1990. **S.S.C.** from Kushtia Zilla School with 1st Division, Jessore Board, 1988.

Professional and Industry Experiences

A. Founder Trustee : Board of Trustees (BoT), United International University **B. Founder** , Bangladesh Digital Education Research Ltd. (**bdeducation**) www.bdeducation.org.bd â€" a research based company on ICT enabled Complete Education (pedagogy) system design and development for the primary, secondary, and higher secondary level education in Bangladesh **(2016 to till date)** *Responsibilities:* 1. Research and Project Management on **ICT enabled Complete Education (ICE)** System â€" a Novel Framework design and development https://www.youtube.com/watch?v=LNK9U4egkro 2. Research on **Age based Skill Development Programs** for primary and secondary level students 3. Research on I**dentifying Mathematics Deficiency in Automation System and Remedial Program** Designing for the primary and secondary level students in Bangladesh 4. Research and Implemented on **Total Quality Assurance and Monitoring System Development (TQAMS)** 5. **Project Management in Integrated Software Solution** design and development integrating Academic MIS, CMS, TQAMS components etc. 6. **IT Infrastructure designing** for the primary, secondary, and higher secondary level academic institutions in Bangladesh including rural area

C. Academic Advisor/and Member Governing Body: 1. United Public School and College, Jamalpur 2. Asiya Bari Ideal School, Pakundia, Kishoregang 3. Yunus Khan Memorial School and College, Munshiganj 4. Rafiuddin Memorial Academy, Munshiganj 5. AVA International Academy, Jessore 6. M A Rashid Memorial Academy, Jamalpur 7. Nizkunjara KG Ideal School, Nizkunjara, Feni etc.

D. Consultant , CDIP, UIU for developing the **ERP Software** Solution for the **Garments Industry** of Bangladesh (2018 â€" 2019) **E. Consultant** in a**World Bank Project (Juneâ€™11 â€"Decâ€™2012):** ATI Limited, Uttara, Dhaka Conducted **IT Audit at BEPZA and RJSC** (Register of Joint Stock Company) between Julyâ€™11 to Juneâ€™12 under **world bank funded project**. **F. Consultancy (Janâ€™09 â€" Novâ€™09):** Athena Software Associates Limited, An outsourcing software company, 3rd Floor, House # 47-72, Road # 08,Block # C, Niketon,Gulshan,Dhaka-1211. *Responsibilities:* 1. Determining the standard approaches for practicing *Agile Methodology* for developing different project following SDLC steps. 2. Monitoring and tracking the different projects using ** *online project management tools* . **3. Requirement Analysis for different projects like o** *nline news site, online shopping cart analysis, remittance management system*** for a bank etc.

G. Consultancy work in Banking Software (Febâ€™07 â€" Decâ€™07): Worked as a consultant in a ** *software for co-operative banking (using C# .Net platform)*** institution which is running in two financial institutions. Now the up gradation is continuing to convert it in web version in ASP.Net.

Professional and Research Awards

- BASIS **ICT National Award** 2022 (**Education**)
- Awarded **Innovation Fund 2022** by ICT Division, *â€œCQAMS â€" A Cloud-Based Quality Assurance and Monitoring System for Primary and Secondary Schools in Bangladeshâ€*
- **Research Grant** from IAR, UIU, â€œ**TQAMS** â€" Total Quality Assurance and Monitoring System for Primary and Secondary Level Institutions in Bangladeshâ€, Julyâ€™21 to Juneâ€™22
- **Research Grant** from IAR, UIU, _â€œ**Effectiveness of Personalized and Hybrid Math Anxiety Intervention Technique (PAHMAIT)** _for Primary & Secondary Level Students of Bangladesh: An Experimental Approachâ€, Augustâ€™23 to Julyâ€™25
- **Research and Project Grant, United Trust, United Group** , â€œ**ICT enabled Complete Education (ICE)â€** â€" A Novel Research based Pedagogical Framework design and development for Primary and Secondary Level of Education in Bangladesh

Research and Book Publication

Major Research Areas: ICT enabled education/pedagogy, Software system and business automation, S/W product design, AI/ML system design, Speech recognition, Software Project Management, HCI etc. *Journal Papers (10):* 1. **Suman Ahmmed** , Jashodhan Saha, Maruf Ahmed Tomal, Khondaker Abdullah Al Mamun, and Sajani Islam, â€œFactors predicting the mathematics anxiety of adolescents: a structural equation modeling approachâ€, **Frontiers in Psychiatry**(Dec 2024), H-Index: 114, Scopus IF: 3.2, **CiteScore: 6.2** , **Q1 Journal, https://doi.org/10.3389/fpsyt.2024.1484381** 2. Jashodhan Saha, **Suman Ahmmed** , and Maruf Ahmed Tomal, â€œIdentifying Mathematics Anxiety Through Automated Process (IMATAP): A Web-based Screening Tool for Teachers,â€, International Journal of Emerging Technologies in Learning, November, **2023, Scopus CiteScore 4.2, Q2 Journal.** 3. **Suman Ahmmed** , Jashodhan Saha, and Maruf Ahmed Tomal, â€œAn Empirical

Study for Determining the Quality Indicators for the Primary and Secondary School of Bangladesh: A Structural Equation Modeling Approachâ€ **Heliyon 8 (2022), ELSEVIER** , Scopus IF: 3.8, **CiteScore: 5.2** , **Q1 Journal** 4. **Suman Ahmmed** , Jashodhan Saha, and Maruf Ahmed Tomal,â€ Effectiveness of Need-based Teacherâ€™s Training Program to Enhance Online Teaching Qualityâ€ **Education Research International, Hindawi** , October 2022, Scopus IF 1.8, **CiteScore: 1.7, Q3 Journal.** 5. Saha, **S. Ahmmed** , M. Tamal, M. Ali and K. Rezaul, â€œICT Based Mathematics Skill Development Program: An Initiative to Overcome Mathematics Anxietyâ€, International Journal of Emerging Technologies in Learning, vol. 15, no. 14, July **2020, Scopus CiteScore 4.2, Q2 Journal.** 6. Faisal Muhammad Shah, Khairul Hasan, Mohammad Moinul Hoque, and **Suman Ahmmed** , â€œArchitecture and Weight Optimization of ANN Using Sensitive Analysis and Adaptive Particle Swarm Optimizationâ€, International Journal of Computer Science and Network Security, IJCSNS, vol.10, no.8, pp. 103â€"111, Aug. 2010. 7. Khairul Hasan, Mohammad Asif Ashraf Khan, Suman Ahmmed, and Ahmed Yousuf Saber, â€œAn Efficient Hybrid Model to Load Forecastingâ€, International Journal of Computer Science and Network Security, IJCSNS, vol.10, no.8, pp. 61â€"68, Aug. 2010 8. Suman Ahmmed, Khondaker Abdullah-Al-Mamun, Md. Monirul Islam â€œA Novel Algorithm for Designing Three Layered Artificial Neural Networksâ€, International Journal of Soft Computing, vol. 2, no. 3, pp.450-458, April, 2007. **Scopus CiteScore 0.8** 9. Khondaker Abdullah-Al-Mamun , Suman Ahmmed, Farhana Sarker, Ahmed Yousuf Saber â€œSegmented Display for Alphanumeric Bangla, English and Arabic Charactersâ€, Research Journal of Applied Sciences, vol. 2, num. 4, pp.522-529, Feb. 2007 10. Suman Ahmmed, Shamim Ahmmed, Chowdhury Mofizur Rahman â€œDiscretization of continuous attributes in Genetic Algorithm based concept learnerâ€, Daffodil International University Journal of Science and Technology, vol. 2, issue 2, pp 13 -19, July 2007.

Conference Papers (21): 1. Anamul Bari, Fazila Nabi Chowdhury Kashpiya, Ishraak Mehrooz, and Suman Ahmmed, â€œUniShare A Bounty-Driven Collaborative Academic Resource Sharing Platform with Advanced Search Relevancyâ€, International Conference on Advances in Computing, Communication, Electrical, and Smart Systems (iCACCESS), 8 â€" 9 March, 2024, Dhaka, Bangladesh, DOI: 10.1109/iCACCESS61735.2024.10499495 2. Tanzid Hossain, Faqrul Hasan Shaon, Akhlaqur rahman Omi, and Suman Ahmmed, â€œA Blockchain-ML Driven Freelancing Telemedicine Platform: Bangladesh Perspectiveâ€, 2nd ICICT4SD, 21-23 September, 2023, Bangladesh University of Professionals (BUP), Dhaka. 3. Asfak-ur-Rahman, Mohammed Rokibul Alam Kotwal, Foyzul Hasan, Suman Ahmmed and Mohammad Nurul Huda, â€œGender effect Canonicalization for Bangla ASR,â€ ICCIT 2012, Chittagong, Bangladesh, Dec. 22-24, 2012 4. Dewan Md. Farid, Nouria Harbi, Suman Ahmmed, Mohammad Zahidur Rahman, and Chowdhury Mofizur Rahman, â€œMining Network Data for Intrusion Detection through NaÃ¯ve Bayesian with Clustering,â€ International Conference on Computer, Electrical, System Science, and Engineering, June 28-30, 2010, Paris, France, pp. 836-840 5. Khairul Hasan, Dewan Md. Fayzur Rahman, Mohammad Asif Ashraf Khan, Faisal Muhammad Shah, Suman Ahmmed, and Mohammad Nurul Huda, â€œSolving Short Term Load Forecasting using Neural Network and Particle Swarm optimizationâ€, 3rd International Conference of Data Management, ICDM 2010, .IMT Ghaziabad, Mar. 11-12, 2010. 6. Mohammad Asif Ashraf Khan, Md. Khairul Hasan, Dewan Md. Fayzur Rahman, Faisal Muhammad Shah, Suman Ahmmed and Manoj Banik, â€œExplore the Optimality Performances of Particle Swarm Optimization and its Variants â€œ, 3rd International Conference of Data Management, ICDM 2010, .IMT Ghaziabad, 11-12, 2010. 7. Suman Ahmmed, Dewan Md. Fayzur Rahman, Md. Khairul Hasan, Ahmed Yousuf Saber, Mohammad Zahidur Rahman, â€œComputational Intelligence Approach to Load Forecasting â€" A Practical Application for the Desert of Saudi Arabia â€œ,12th International Conference on Computer and Information Technology, ICCIT 2009, Dec 2009. 8. Dewan Md. Fayzur Rahman, Ahmed Yousuf Saber, Suman Ahmmed, â€œMemory-bounded Ant Colony Optimization with Viterbi Algorithm and A *Local Search for Unit Commitment Schedulingâ€, Proceedings of 1st International Conference on Computer, Communication, Control and Information Technology, pp 100â€"108, Feb 06-07, 2009 9. Dewan Md. Fayzur Rahman, Md. Monirul Islam, Faisal Kabir, Suman Ahmmed, â€œHeuristic Based Dynamic Approach for Solving N-Queen Problemâ€, Proceedings of 1st International Conference on Computer, Communication, Control and Information Technology, pp 109â€"117, Feb 06-07, 2009. 10. Monirul Islam, Md. Faijul Amin, Suman Ahmmed and Kazuyuki Murase, â€œAn Adaptive Merging and Growing Algorithm for Designing Artificial Neural Networksâ€, Proceedings of International Joint Conference on Neural Networks (IJCNN), pp 2003â€"2008, June 01-08, 2008. 11. Aftabul Islam, Rezaul Hasan, Rezwanur Rahaman, Raiyan S.M. Kabir, Suman Ahmmed â€œDesigning ANN Using Sensitivity & Hypothesis Correlation Testingâ€, 10th International Conference on Computer and Information Technology, pp. 373-378, Dec 2007 12. Ahmed Yusuf Saber, Suman Ahmmed, Khondaker Abdullah-Al-Mamun â€œConstrained Non-linear Optimization by Modified Particle Swarm Optimizationâ€, 10th International Conference on Computer and Information Technology, pp. 86-92, Dec. 2007 13. Tania Taharima Chowdhary, Shafiul Alam, Mohiuddin Md. Soel, Raiyan S.M. Kabir, Suman Ahmmed â€œA New CAC Protocol for Optimizing Revenue and Ensuring QoSâ€, 10th International Conference on Computer and Information Technology (ICCIT), pp. 168-173, Dec. 2007 14. Faisal Kabir, Salahuddin Aziz, Suman Ahmmed, Chowdhury Mofizur Rahman â€œAn Alternative Approach to Minimize SOP Expressionâ€, 10th International Conference on Computer and Information Technology, pp. 275 â€" 280, Dec. 2007 15. Shafiul Alam, Tania Taharima Chowdhary, Md. Mohiuddin Soel, Mohammed Anowarul Hassan, Suman Ahmmed â€œA New Call Admission Controller to Ensure Fairness Services and Bandwidth Managementâ€, 2nd National Conference on Communication and Information Security, NCCIS 2007, pp. 71 â€" 77, November 2007 16. Ahmed Yusuf Saber, Suman Ahmmed, Wahed Newaz â€œMemory-bounded Ant Colony Optimization with A* Local Search and Its Application to Unit Commitment Schedulingâ€, 9th International Conference on Computer and Information Technology, pp 414â€"420, Dec. 2006. 17. Suman Ahmmed, Md. Saifur Rahman, Md. Monirul Islam â€œADCSP â€" A New Approach for Designing Artificial Neural Networksâ€, 9th International Conference on Computer and Information Technology- (ICCIT), pp. 408â€" 413, Dec. 2006 18. Suman Ahmmed, Zakaria Al Mahmud, Abdul Motin Howlader, Md. Mostafa Belal, Chowdhury Mofizur Rahman â€œExploiting Entropy Based Feature Selection, NaÃ¯ve

Bayesian Classifier and Association Mining in Automated Text Classification Systemâ€, 8th International Conference on Computer and Information Technology (ICCIT), pp. 1041â€"1045, Dec. 2005 19. Suman Ahmmed, Shamim Ahmmed, Chowdhury Mofizur Rahman â€œDiscretization of continuous attributes in Genetic Algorithm based concept learnerâ€, 8th International Conference on Computer and Information Technology (ICCIT), pp. 52 â€" 57, Dec. 2005 20. Moinuddin Muhammad Masud, Suman Ahmmed, Chowdhury Mofizur Rahman â€œA New Correlation Based Neural Network Pruningâ€, 7th International Conference on Computer and Information Technology (ICCIT), pp. 98-103, Dec. 2004 21. Ahmed Yusuf Saber, Suman Ahmmed, Chowdhury Mofizur Rahman â€œ11-Segment Display for Bangla Digitsâ€, 5th International Conference on Computer and Information Technology- (ICCIT), pp. 237-240, Dec. 2002.

Book Publication: â€œICT Project Management Framework for *ICT-based Pedagogy System: Development, Operation, and Management* â€, *Suman Ahmmed* and *Karim Mohammed Rezaul,* Publisher: BookBaby, USA; 17 May 2022, ISBN: 978-1-66784-684-2 *link:*https://www.amazon.in/ICT-Project-Management-Framework-Development-ebook/dp/B0B1JLJW1B/ref=mp_s_a_1_13?qid=1653655159&refinements=p_27%3AREZAUL+KARIM&s=books&sr=1-13

Research Areas

- Novel System Design and Development
- Research on Pedagogical System and Itâ€™s Implementation
- HCI â€" Human Computer Interaction
- Software Project Management
- Artificial Intelligence and Machine Learning
- Natural Language Processing, Neural Networks

Courses Taught

- System Analysis & Design
- Software Engineering
- IT Audit and Assessment
- Software Specifications Analysis
- Software Project Management
- Structured Programming Language
- Artificial Intelligence
- Computer Graphics
- Data Structure and Algorithm
- Database Management
- Numerical Methods, and Computer Graphics
- Advanced Artificial Intelligence
- Fuzzy Systems
- Neural Network
- Data Mining

Others

- **Treasurer** and **Advisor** of Asia Debate Academy held in Dec 16 â€" 24, 2014.
- Attended in **Oxford** and **Cambridge** Unions debate championships in UK as **Adjudicator** and Observer from November 03, 2014 to November 22, 2014.
- *Judge* in National Debate Competition (English & Bengali) telecast in **Bangladesh Television (BTV)**.
- *Judge* in National Debate Competition (English & Bengali) telecast in **ATN Bangla.**
- *Award Leader of Duke of EdinBurgh* Award program
- **Trainers** for the teachers

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