NITER

Anichur Rahman

Computer Science & Engineering

Bio

Anichur Rahman received a B.Sc. and M.Sc degree in Computer Science and Engineering from Mawlana Bhashani Science and Technology University (MBSTU), Tangail, Bangladesh, in 2017 and 2020, respectively. Currently, he is working as a Lecturer at Computer Science and Engineering (CSE), National Institute of Textile Engineering and Research (NITER), Constituent Institute of the University of Dhaka, Savar, Dhaka-1350, Bangladesh since January 2020 to present. He has authored more than 33 articles in high-ranking journals and conferences, including FGCS, IEEE IOTJ, IEEE AC, DCAN, JISA, SR (nature), CSBJ, CCJ, etc. Aichur has received the Best Paper Award at the International Conference on Trends in Computational and Cognitive Engineering (TCCE 2020). His articles received the best paper award and nominations at different international conferences. He is also a Reviewer of high-quality journals and conferences. His areas of interest include the Internet of Things (IoT), Blockchain, Software Defined Networking (SDN), Network Function Virtualization (NFV), Artificial Intelligence (AI), Image Processing, Machine Learning, 5G, Industry 4.0, and Data Science.

Education

Degree Name	Group/Major Subject	Board/Institute	Country	Passing Year
M.Sc. (Eng.)	Computer Science and Engineering (CSE)	Mawlana Bhashani Science and Technology University (MBSTU)	Bangladesh	2020
B.Sc. (Eng.)	Computer Science and Engineering (CSE)	Mawlana Bhashani Science and Technology University (MBSTU)	Bangladesh	2017

Experience

Job Title	Organization	Location	From Date	To Date
Asst. Prof.	NITER	Savar, Dhaka	March 2023	Present
Lecturer	National Institute of Textile Engineering and Research (NITER), Constituent Institute of the University of Dhaka	Nayarhat, Savar, Dhaka-1350	January 2020	March 2023
Lecturer	Green University of Bangladesh	Shewrapara, Mirpur, Dhaka, Bangladesh	May 2019	November 2019
Lecturer	Khwaja Yunus Ali University	Enayetpur, Sirajgong, Bangladesh	April 2018	May 2019
Lecturer	International Islamic University Chittagong	Kumira, Chattagram, Bangladesh	November 2017	April 2018

Research Activities

Research Interest

Subject	Description	Research Interest (Goal/ Target Indication)
IoT	Internet of Things	
BC	Blockchain	
SDN	Software-Defined Networking	
NFV	Network Function Virtualization	
DS & ML	Data Science and Machine Learning	

Publications

Journal Article

SL. No-	Article Name	Link
01.	DistBlockBuilding: A Distributed Blockchain-Based SDN-IoT Network for Smart Building Management	https://ieeexplore.ieee.org/document/9151145
02.	Blockchain-SDN based Energy-Aware and Distributed Secure Architecture for IoTs in Smart Cities	https://ieeexplore.ieee.org/document/9499121?source=authoralert
03.	SmartBlock-SDN: An Optimized Blockchain-SDN Framework for Resource Management in IoT	https://ieeexplore.ieee.org/abstract/document/9350593
04.	SDN-IoT Empowered Intelligent Framework for Industry 4.0 Applications during COVID-19 Pandemic	https://doi.org/10.1007/s10586-021-03367-4
05.	DistB-Condo: Distributed Blockchain-based IoT-SDN Model for Smart Condominium	https://ieeexplore.ieee.org/document/9262955
06.	On the ICN-IoT with Federated Learning Integration of Communication: Concepts, Security-Privacy Issues, Applications, and Future Perspectives	https://doi.org/10.1016/j.future.2022.08.004
07.	Towards a Blockchain-SDN based Secure Architecture for Cloud Computing in Smart Industrial IoT	https://www.sciencedirect.com/science/article/pii/S2352864822002449
08.	Federated Learning-based AI Approaches in Smart Healthcare: Concepts, Taxonomies, Challenges and Open Issues	https://doi.org/10.1007/s10586-022-03658-4

09.	On Blockchain-SDN Integration: Overview, Security, Applications, and Future Perspectives	https://doi.org/10.1007/s10922-022-09682-4
10.	Impacts of blockchain in software-defined Internet of Things ecosystem with Network Function Virtualization for smart applications: Present perspectives and future directions	https://onlinelibrary.wiley.com/doi/abs/10.1002/dac.5429
11.	DistB-SDoIndustry: Enhancing Security in Industry 4.0 Services based on Distributed Blockchain through Software Defined Networking-IoT Enabled Architecture	http://dx.doi.org/10.14569/IJACSA.2020.0110980
12.	Study on IoT for SARSCoV-2 with Healthcare: Present and Future Perspective	https://www.aimspress.com/article/doi/10.3934/mbe.2021475
13.	SDoT-NFV: Enhancing a Distributed SDN-IoT Architecture Security With NFV implementation for Smart City	https://doi.org/10.3329/gubjse
14.	Four-layer ConvNet to facial emotion recognition with minimal epochs and the significance of data diversity	https://www.nature.com/articles/s41598-022-11173-0
15.	SGBBA: An efficient method for prediction system in machine learning using Imbalance dataset	http://dx.doi.org/10.14569/IJACSA.2021.0120351
16.	Accurate Brain Tumor Detection Using Deep Convolutional Neural Network	https://doi.org/10.1016/j.csbj.2022.08.039
17.	MultiNet: A Deep Neural Network Approach for Detecting Breast Cancer through Multi-scale Feature	https://doi.org/10.1016/j.jksuci.2021.08.004

	Fusion	
18.	IoT and WSN based Effluent Treatment Plant Monitoring System	http://acta.uni-obuda.hu/IslamKhan_Rahman_Islam_Nasir_SBand_Mosavi_117.pdf
19.	An Empirical Mode Decomposition (EMD) based on Steganographic Method for Digital Images	http://www.ceser.in/ceserp/index.php/iji/article/view/6518
20.	A Framework for M-Health Services Using 4G (LTE) Technology	https://ijisrt.com/a-framework-for-mhealth-services-using-4g-lte-technology
21.	An Efficient Image Denoising Technique for Unprocessed Raw Images using Combine Linear and Non-Linear Filtering	https://www.ijcaonline.org/archives/volume177/number38/rahman-2020-ijca-919877.pdf
22.	CovidMulti-Net: A Parallel-Dilated Multi Scale Feature Fusion Architecture for the Identification of COVID-19 Cases from Chest X-ray Images	https://www.medrxiv.org/content/10.1101/2021.05.19.21257430v1
23.	Esophageal Cancer Recognition Using an Artificial Neural Networks	https://www.ijcaonline.org/archives/volume181/number29/30121-2018917970

Conference Proceedings

SL. No-	Paper Name	Link
01.	An Intelligent Vaccine Distribution Process in COVID-19 Pandemic through Blockchain-SDN Framework from Bangladesh Perspective	https://ieeexplore.ieee.org/document/9641303
02.	Block-SDoTCloud: Enhancing Security of Cloud Storage through Blockchain-based SDN in IoT	https://ieeexplore.ieee.org/document/9350419

	Network	
03.	DistBlockSDN: A Distributed Secure Blockchain Based SDN-IoT Architecture with NFV Implementation for Smart Cities	https://ieeexplore.ieee.org/document/9290627
04.	DistB-CVS: A Distributed Secure Blockchain based Online Certificate Verification System from Bangladesh Perspective	https://ieeexplore.ieee.org/document/9333523
05.	Normalized Approach to Find Optimal Number of topics in Latent Dirichlet Allocation (LDA)	https://doi.org/10.1007/978-981-33-4673-427
06.	A Secured Patient Online Data Monitoring through Blockchain: An Intelligent way to Store Lifetime Medical Records	https://ieeexplore.ieee.org/document/964253
07.	An Enhanced Security Architecture for Industry 4.0 Applications based on Software-Defined Networking	https://ieeexplore.ieee.org/document/9952633
08.	Preventive Determination and Avoidance of DDoS Attack with SDN over the IoT Networks	https://ieeexplore.ieee.org/document/9528133
09.	An SDN-based Secure Model for IoT Network in Smart Building	https://www.researchgate.net/publication/366517853
10.	A Decentralized Secure Blockchain based Privacy-Preserving Healthcare Clouds and Applications	https://www.researchgate.net/publication/368329878

Award

Award Type	Title	Year	Country	Description
Best Paper Award	Normalized Approach to Find Optimal Number of topics in Latent Dirichlet Allocation (LDA)	2020	Bangladesh	2nd International Conference on Trends in Computational and Cognitive Engineering (TCCE), 2020.
Faculty Scholarship for being a topper	University Faculty Scholarship	2014	Bangladesh	University Faculty Scholarship, Mawlana Bhashani Science and Technology University, Tangail
Secured 1st position	M.Sc. (Eng.) Degree	2020	Bangladesh	Dept. of CSE, Mawlana Bhashani Science and Technology University
Board Scholarship	Secondary Board Scholarship	2009	Bangladesh	Board Scholarship, 2008-2009
Best Speaker	Spot Speech Competition of Faculty Member	2018	Bangladesh	Spot Speech Competition of Faculty Members 2018, Khwaja Yunus Ali University

Contact

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Institute – Faculty
Name of the Department: Computer Science & Engineering
Position: Asst. Professor