Jannatul Ferdous

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EDUCATION

MS/PhD in Computer Science (Expected graduation - 2022/2023) University of New Mexico, New Mexico, USA CGPA: 3.99/4.00	Jan. 2018 – Present
BSc in Computer Science & Engineering University of Dhaka, Dhaka, BD CGPA: 3.64/4.00	Jan. 2012 – May. 2016
Experience	
Research Assistant <i>Moses Biological Computation Lab, CS, UNM</i> Advisor: Dr. Melanie Moses	Aug. 2020 – Present
 Research Interest: Computational Immunology, Biologically Inspired Computation Develop computational and mathematical models of immune systems and apply the biologically-inspired computation. Analyze complex biological problems and implement new statistical tools for deriving and computational data 	, Scaling in Complex Systems knowledge in g insights from the biological
• Study and explore the scaling of the immune system of mammals through computer statistical tools.	modeling, simulations and
 Instructor Department of Computer Science, UNM Courses: Object Oriented Programming, CS for All 	Jan. 2019 – Aug. 2020
 Graduate Teaching Assistant Department of Computer Science, UNM Courses: Cyber Security, Data organization with C 	Jan. 2018 – Dec. 2018
 Lecturer Department of CSE, Eastern University, Dhaka, Bangladesh Courses: Distributed Systems, Object Oriented Programming, Computer Peripheral C and C++ 	May 2016 – Dec. 2017 and Interfaces, Introduction to
Journal	

J. Ferdous, M. P. Mollah, M. A. Razzaque, M. M. Hassan, A. Alamri, G. Fortino and M. Zhou, "Optimal Dynamic Pricing for -Off User Utility and Operator Profit in Smart Grid", in IEEE Transactions on Systems, Man, and Cybernetics: Systems, vol. 50, no. 2, pp. 455-467, Feb. 2020, doi: 10.1109/TSMC.2017.2764442.

Conference

Ferdous, J., Fricke, G.M., Moses, M.E. (2022). Modeling Immune Search Through the Lymphatic Network. In: , et al. Swarm Intelligence. ANTS 2022. Lecture Notes in Computer Science, vol 13491. Springer, Cham. https://doi.org/10.1007/978-3-031-20176-9_30

WORKSHOP

Jannatul Ferdous, G. Matthew Fricke, Juddy Cannon and Melanie E. Moses, "Distributed Processing in Lymph Nodes Supports a Scalable Immune Response", Accepted for 8th Workshop on Biological Distributed Algorithm, 2021, in conjunction with PODC 2021

TECHNICAL SKILLS

Programming Languages: Java, Python, C, MATLAB, Haskell, NetLogo Databases: MySQL, Oracle Tools & Libraries: Git, MASON, OpenCV, OpenGL, TensorFlow, Keras

Research Talk

Virus Dynamic Workshop, 2021 Biological Distributed Algorithms (BDA) Workshop, 2021, co-located with PODC. STEM Symposium, UNM, 2020 CS Student Conference, UNM, 2019

GRADUATE COURSES

Algorithms & Data Structure, Data Mining Techniques, Complex Adaptive System, Immunology, Geometric & Probabilistic Methods in CS, Intro to Cybersecurity, Introduction to Theory of Computation, Experimental Methods in CS.

PROFESSIONAL SERVICE ACTIVITIES

President of computer science graduate student association, UNM (2020 - 2021) Organized 15th annual Computer Science Student conference, 2021.

Secretary of computer science graduate student association, UNM (2019 - 2020)

Organized fall graduate student orientation, 2020.

Reviewer, BDA 2021

Biological Distributed Algorithms Workshop, co-located with PODC.

References

Dr. Melanie Moses Professor Department of CS University of New Mexico NM, USA melaniem@cs.unm.edu Dr. Abdullah Mueen Associate Professor Department of CS University of New Mexico NM, USA Mueen@cs.unm.edu Matthew Fricke Research Assistant Professor Department of CS University of New Mexico NM, USA mfricke@unm.edu