BROTOTI MONDAL

BIO SKETCH

Current Status: Assistant Professor,
Department of Computer Science,
Sammilani Mahavidyalaya (affiliated to the University of Calcutta)

Qualification: M.Tech in Computer Science & Engineering

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Objective: To acquire and impart knowledge among the scholars through continuous research for advancement of technology towards socio-economic development.

Work Experience

21/11/2016 – present	Assistant Professor, Department of Computer Science, Sammilani Mahavidyalaya (affiliated to the University of Calcutta), Baghajatin, E.M. Bypass, Kolkata- 700 094
July 2012 – July 2016	Assistant Professor, Department of Computer Science & Engineering, Supreme Knowledge Foundation Group of Institutions, Mankundu, Hooghly.

Education

2012	M.Tech	Kalyani Government Engineering College, West Bengal University of Technology	9.16 (DGPA)
2010	B.Tech	Kalyani Government Engineering College, West Bengal University of Technology	8.48 (DGPA)
2006	Higher Secondary	WBCHSE	85.70%
2004	Madhyamik	WBBSE	90.12%

Publications

Journal Article

1. **Brototi Mondal**, Avishek Choudhury "Simulated Annealing (SA) based Load Balancing Strategy for Cloud Computing", International Journal of Computer Science and Information Technologies, Vol. 6 (4), 2015, 3307-3312, ISSN: 0975-9646
2. **Brototi Mondal,** "Load balancing in cloud computing using Multi-objective Bio-inspired techniques - A comprehensive study", International Journal of Advanced Science and Research, Volume 6, Issue 2, 2021, Page No. 34-41, ISSN: 2455-4227
3. **Brototi Mondal,** "Bio-Inspired Load Balancing Strategies In Cloud Computing - A Comprehensive Study", International Journal of Multidisciplinary Educational Research, Volume: 10, Issue: 3(1), 2021, ISSN : 2277-7881
4. **Brototi Mondal**, "A honey bee foraging algorithm based load balancing strategy in cloud computing", International Journal of Advanced Engineering and Technology, Volume 6, Issue 1, 2022, Page No. 38-46, ISSN: 2456-7655
5. Choudhury, Avishek, **Brototi Mondal**, Kolin Paul, and Biplab K. Sikdar. "Energy efficiency in multicore shared cache by fault tolerance using a genetic algorithm based block reuse

predictor." Microprocessors and Microsystems (2023): 104864.

6. Choudhury, Avishek, **Brototi Mondal**, Kolin Paul, and Biplab K. Sikdar. "Designing a Deep Neural Network engine for LLC block reuse prediction to mitigate Soft Error in Multicore." Microelectronics Reliability 156 (2024): 115377.
7. **Brototi Mondal**. "Load balancing in cloud computing using cuckoo search algorithm." International Journal of Cloud Computing 13, no. 3 (2024): 267-284.

Conference Proceedings

1. **Brototi Mondal**, Kousik Dasgupta, and Paramartha Dutta. "Load balancing in cloud computing using stochastic hill climbing-a soft computing approach." Procedia Technology 4 (2012): 783-789.
2. Dasgupta, Kousik, **Brototi Mandal**, Paramartha Dutta, Jyotsna Kumar Mandal, and Santanu Dam. "A genetic algorithm (ga) based load balancing strategy for cloud computing." Procedia Technology 10 (2013): 340-347.
3. **Brototi Mondal**, Madhuchanda Das, Chayanti Mukherjee, and Oishika Das. "Load balancing in cloud computing using a local search technique—Tabu Search." In Foundations and Frontiers in Computer, Communication and Electrical Engineering: Proceedings of the 3rd International Conference on Foundations and Frontiers in Computer, Communication and Electrical Engineering, 2016 (C2E2-2016), pp. 187-190. Taylor & Francis Books Ltd, 2016.
4. Choudhury, Avishek, **Brototi Mondal**, and Biplab K. Sikdar. "ReMiT: Redundancy Migration for Latency Aware Fault Tolerant Cache Design in Multicore." In 2018 8th International Symposium on Embedded Computing and System Design (ISED), pp. 80-84. IEEE, 2018.
5. Choudhury, Avishek, **Brototi Mondal**, and Biplab K. Sikdar. "Latency Aware Fault Tolerant Cache in Multicore Using Dynamic Remapping Clusters." In 2019 IEEE 28th Asian Test Symposium (ATS), pp. 79-790. IEEE, 2019.
6. Choudhury, Avishek, **Brototi Mondal**, Kolin Paul, and Biplab K. Sikdar. " LLC Block Reuse Predictor Design using Deep Learning to Mitigate Soft Error in Multicore", 37th IEEE International Conference on VLSI Design and 23rd IEEE International Conference on Embedded Systems (VLSID), 2024.

Book Chapter

1. Choudhury, Avishek, **Brototi Mondal**, and Biplab K. Sikdar. “Latency Aware Fault Tolerant Cache Design in Multicore using Remapping Clusters”, Chapter 15, Futuristic Trends in Science and Technology, Manglam Publications, Delhi, 1st Edition 2023, ISBN 978-81-964432-2-1
2. **Brototi Mondal**. “An Improved Artificial Ant Colony Optimization technique to Balance workload in AI-Based Smart Cloud”, Tomorrow’s Blueprint: Exploring Environmental, Financial, Socio-Economic and Technological Issues 2024, pp-243, ISBN: 978-81-972787-9-2

Courses Taken

Subjects	Database Management System, Operating System, Data Communication & Networking, Theory of Computation, Algorithms and Data Structures, Cloud Computing
Programming	C, C++, JAVA, HTML/CSS/JAVA Script, PHP-MySQL, Unix Shell Programming

BIO

Father’s Name	Prabir Kumar Mondal
Mother’s Name	Sujata Mondal
Date of Birth	24/07/1987
Gender:	Female
Hobbies:	Painting & Music

Declaration: I hereby declare that the above information is true and fair to the best of my knowledge and belief.

Brototi Mondal

Place: Kolkata
Date : 11 August 2024

(Brototi Mondal)