About

Hi, This is Manojit. I joined this institute in July 2019 after completing my Ph.D. (in CSE) from IIT Guwahati. I did my B.E. in CSE from Jerhat Engineering College (Govt. of Assam) under Dibrugarh University, followed by M.Tech. (in CSE) from IIT Guwahati.

Research Interests

- Bigdata, Performance improvement of ML/DL algorithms
 Processing-in-Memory, 3D NoC
- Resource management in Edge, Cloud
 Quantum cloud computing, etc.

Research Projects:

Title: Efficient Execution of User Application Computing Platform

Period: June 2019 - Dec 2020

Funding agency: MHRD (through TEQIP)

Amount sanctioned: 5.22 lacs

Status: Complete

Teaching

Book Authored

- Co-authoried the book "An Introduction to Computer Science", a textbook on Computer Science for class IX under Board of Secondary Education Assam (SEBA), published by Assam State Textbook (Production and Publication Ltd, Govt. of Assam in May 2021.

Students, research areas and their publications

- BTech:

 1. Vishal Daka (Area: Scheduling and caching in MEC, Publications done in: Edge Analytics Letter 2002; MIDCOM-2002), MIDCOM-20020

 2020)

 2. Ananya Pattak, Rustja Patole (Area: Application scheduling in 30 Network-on-chip, Publications done in: [SA2024)

- CHERCH:

 J. Mayank Agarwal [MTisch] (Area: Computation officading in Processing-in-memory, Publications done in: IMPC2023)

 2. Simran Kaur [MTech] (Area: Application scheduling and mapping for 3D Natwork-on-chip, Publications done in: JSA2024)

III) PACASAY PRD: 1. Alshiru Islam (PRD) (Area: Scheduling in MEC, Publications done III) (CDC) (CDC) 2. Satam Mally (PRD) (Area: Compiler assisted officating in PAGMANP, PAGICations done in: EPC203) 3. Acusosh Kumar Sarma (PRD) (Area: - Publications done in: -)

Publication

- A Choudhury, M. Ghose, A Islam, Y Thakran, "Machine Learning-Based Computation Offloading in Multi-Access Edge Computing: A Survey", Journal of Systems Architecture, (2024) Elsevier

- Manojit Ghose, "Energy efficient scheduling of real time tasks on large systems and cloud", (2018),

- oystem*, Companing, MILID, (2017), pages. 1007 − 1028.

 Conference

 Alsk Choudhury, Kaustav Kumar Nath, Manoji Chose, Yogita
 Thakrar, Mennoy and CPU utilization-aware Energy-Efficient
 MR Flacement and Consolidation in Cloud Data Centers, 1

 IEEE Gawahati Sub-Section Flagsiny Conference (CCOM),
 (2012), pages. 1–6, (received Met Puper award).
- (2023), pages 1.6. (received text Paper award.

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- Satanu Maity, Mayank Goel, Manojit Ghose, "Data Locality Aware Computation Officading in Near Memory Processing Architecture for Big Data Applications", The 30th IEEE International Conference on High Performance Computing, D and Analytics (HIPC-2023),(accepted), (2023), IEEE
- M Ghose, KP Pandey, N Chaudhari, A Sahu, "Soft Reliability Aware Scheduling of Real-time Applications on Cloud with MTII constraints", 23rd International Symposium Cluster, Cloud and Internet Computing, (2023), (CCGrid 2023)
- Vishal Deka, Akhinul Islam, Manojit Ghose, "Cloud-Assisted Dynamic and Cooperative Content Caching in Mobile Edge Computing", 2022 IEEE 19th India Council International Conference (INDICON), (2022), pages. 1-6, IEEE

- S. Kaur, M. Ghose, A. Sahu, "Energy Efficient Scheduling of Real-Time Tasks in Cloud Environment", in The 19th IEEE International Conference on High Performance Computing and Communications (HPCC 2017), (2017), pages. 178 185, Bangkok
- M. Ghose, A. Sahu, S. Karmakar, "Energy Efficient Online Scheduling of Aperiodic Real Time Task on Large Multi-threaded Multiprocessor Systems", in The 13th International IEEE Annual India Conference (IMICCOM), (2016), pages. 1 6, (received Best paper award in CS track).

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Manojit Ghose, Aryabartta Sahu, Sushanta Karmakar, "Energy Efficient Scheduling of Real Time Tasks on Large Systems", 2016 17th International Conference on Parallel and Distributed













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