Sanjit Kumar Roy

PERSONAL DATA

Research Scholar, Dept. of CSE, IIT Guwahati. **CURRENT POSITION:**

MAILING ADDRESS: Bhyabla, Basirhat, North 24 Parganas,

West Bengal, Pin - 743422, India.

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LINKEDIN: https://www.linkedin.com/in/sanjit-kumar-roy



EDUCATION

• (Current Affiliation:)

Indian Institute of Technology Guwahati, Guwahati, India

Doctor of Philosophy (Tentative Thesis submission by January, 2021).

Thesis Title: Co-scheduling Strategies for Real-time Tasks and Messages.

Supervisor: Dr. Arnab Sarkar and Dr. Chandan Karfa (Administrative Supervisor).

• National Institute of Technology Durgapur, Durgapur, India

Master of Technology in Information Technology

Thesis Title: Application of Distributed Key Generation in Secured Sealed-Bid Auction Mechanism.

Supervisor: Dr. Jaydeep Howlader.

CGPA: 8.96/10

• West Bengal University of Technology, Kolkata, India

Bachelor of Technology in Information Technology

DGPA: 7.26/10

RESEARCH INTEREST

Scheduling Strategies in Real-time and Embedded Systems

PUBLICATIONS

Journal Papers Published/Submitted

- 1. Sanjit Kumar Roy, Rajesh Devaraj, Arnab Sarkar, Sayani Sinha and Kankana Maji. "Contention-aware optimal scheduling of real-time precedence-constrained task graphs on heterogeneous distributed systems." Elsevier Journal of Systems Architecture (JSA). Volume 105, May 2020, 101706.
- 2. Sanjit Kumar Roy, Arnab Sarkar and Rahul Gangopadhyay. "Processor and Bus Co-scheduling Strategies for Real-time Tasks with Multiple Service-levels." Springer Journal of Scheduling (JOSH), (Second round major revision received).
- 3. Sanjit Kumar Roy, Rajesh Devaraj and Arnab Sarkar. "SAQA: Quality-level Aware Scheduling of Task Graphs on Heterogeneous Distributed Systems." ACM Transactions on Embedded Computing Systems (ACM TECS), (First round review response submitted).
- 4. Sanjit Kumar Roy, Rajesh Devaraj and Arnab Sarkar. "Contention Cognizant Scheduling of Task Graphs on Shared Bus based Heterogeneous Platforms." IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (IEEE TCAD), (First round review response submitted).

Working

1. Sanjit Kumar Roy, Rajesh Devaraj and Arnab Sarkar. "Energy-aware Co-scheduling of Multiple Task Graphs on Shared Bus based Heterogeneous Platforms." (Manuscript under preparation).

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JUL. 2013 -TILL DATE

JUN. 2013

AUG. 2008

Conference Papers

- 1. **Sanjit Kumar Roy**, Rajesh Devaraj, Arnab Sarkar, Sayani Sinha and Kankana Maji. "Optimal scheduling of precedence-constrained task graphs on heterogeneous distributed systems with shared buses." *IEEE 22nd International Symposium on Real-Time Distributed Computing (ISORC)*. Pages 185-192, 2019.
- 2. **Sanjit Kumar Roy**, Rajesh Devaraj and Arnab Sarkar. "Optimal scheduling of PTGs with multiple service levels on heterogeneous distributed systems." *American Control Conference (ACC)*. Pages 157-162, 2019.
- 3. Jaydeep Howlader, **Sanjit Kumar Roy**, Ashis Kumar Mal. "Practical Receipt-Free Sealed-Bid Auction in the Coercive Environment". *Information Security and Cryptology, 16th International Conference*, Seoul, Korea, Nov. 2013.

TECHNICAL SKILLS

C, Python, Matlab, Java, CPLEX.

SCHOLARSHIPS & AWARDS

• Received MHRD Scholarship, Govt. of India for pursuing Ph.D. at IIT Guwahati, India. Jul. 2013

• Received MHRD Scholarship, Govt. of India for pursuing M.Tech at NIT Durgapur, India. Aug. 2011

REFERENCES

• Dr. Arnab Sarkar

Professor, Advanced Technology Development Centre, IIT Kharagpur,

Kharagpur - 721302, West Bengal, India

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• Dr. Hemangee K. Kapoor

Professor, Dept. of Computer Science & Engineering, IIT Guwahati,

Guwahati - 781039, Assam, India

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