Pritam Goswami

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https://pritamacademic.github.io/profile.github.io/

Employment History

2018 **TCS (Tata Consultancy Service) :** Assistant System Engineer (Trainee).

Education

2012 – 2015 **B.Sc (Honours) :** Ramakrishna Mission Residential College Narendrapur (Autonomous)
Subject: *Mathematics*.

2015 – 2017 **M.Sc :** University of Calcutta.
Subject: *Pure Mathematics*

2019 – . . . **Ph.D :** Jadavpur University.
Topic: *Distributed Swarm Robot Algorithms*.
Supervisor: *Prof. Buddhadeb Sau*

Skills

Language Strong reading, writing and speaking competencies for English, Bengali and Hindi.

Coding C, Java, Python, SQL, LaTeX, …

Web Dev HTML, CSS, JavaScript, Tomcat Web Server.

Research Publications

Journal Articles

1. S. Ghosh, P. Goswami, A. Sharma, and B. Sau, "Move optimal and time optimal arbitrary pattern formations by asynchronous robots on infinite grid," *Int. J. Parallel Emergent Distributed Syst.*, vol. 38, no. 1, pp. 35–57, 2023. DOI: 10.1080/17445760.2022.2124411.
2. M. K. Kundu, P. Goswami, S. Ghosh, and B. Sau, "Arbitrary pattern formation by opaque fat robots on infinite grid," *Int. J. Parallel Emergent Distributed Syst.*, vol. 37, no. 5, pp. 542–570, 2022. DOI: 10.1080/17445760.2022.2088750.

Conference Proceedings

1. S. Ghosh, A. Sharma, P. Goswami, and B. Sau, "Two teams of oblivious asynchronous robots performing different tasks on an infinite grid without the knowledge of its team members," in *9th ICARA 2022: 9th International Conference on Automation, Robotics and Applications, Abu Dhabi, United Arab Emirates, February 10 - 12* (***Procceding yet to publish***).
2. P. Goswami, A. Sharma, S. Ghosh, and B. Sau, "Time optimal gathering of myopic robots on an infinite triangular grid," in *Stabilization, Safety, and Security of Distributed Systems - 24th International Symposium, SSS 2022, Clermont-Ferrand, France, November 15-17, 2022, Proceedings*, S. Devismes, F. Petit, K. Altisen, G. A. D. Luna, and A. F. Anta, Eds., ser. Lecture Notes in Computer Science, vol. 13751, Springer, 2022, pp. 270–284. DOI: 10.1007/978-3-031-21017-4_18.
3. P. Goswami, S. Patra, and B. Sau, "Hole healing in mobile sensor network," in *8th NSysS 2021: 8th International Conference on Networking, Systems and Security, Cox's Bazar, Bangladesh, December 21 - 23, 2021*, ACM, 2021, pp. 13–18. DOI: 10.1145/3491371.3491380.

Presentations

2021
- Hole Healing in Mobile Sensor Network.
  Presented at: *NSysS, 2021.(Virtual).*

2022
- Time Optimal Gathering of Myopic Robots on an Infinite Triangular Grid.
  Presented at: *SSS, 2022 (Clermont-Ferrand, France).*
- Time Optimal Gathering of Myopic Robots on an Infinite Triangular Grid.
  Presented at: *LIMOS, UCA (Clermont-Ferrand, France).*

Miscellaneous Experience

- **Teaching Assistant :** Assisted Professor B. Sau and Professor S. Ghosh as a teaching assistant by taking classes for the following two topics
  1. Linear Algebra
  2. Abstract Algebra.

- **Research Visit :** Visited Professor Anaïs Durand at LIMOS, UCA in Clermont-Ferrand, France.