

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, "Oblivious robots performing different tasks on grid without knowing their team members," in *9th International Conference on Automation, Robotics and Applications, ICARA 2023, Abu Dhabi, United Arab Emirates, February 10-12, 2023*, IEEE, 2023, pp. 180–186. 🔗 DOI: 10.1109/ICARA56516.2023.10125816.
- 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)*.
- 2023  Rendezvous on a Known Dynamic Point on a Finite Unoriented Grid.
Presented at: *IIT Kanpur, Kanpur, India*.

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.