



TARUN BISWAS

Visva-Bharati University, India

Siksha-Bhavana, Computer & System Sciences

A Central University and an Institution of National Importance

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HIGHLIGHTS

- A dedicated academician, having a passion for imparting knowledge.
- PhD, M.Tech and B.Tech all through Government / Central Government Institutions.
- Qualified GATE 2010 and 2017 (Computer Science and Engineering).
- 13+ years of teaching experience in NIT, IIIT and Visva-Bharati University.
- Notable research credentials.

EDUCATIONAL QUALIFICATION

Degree	Discipline	Institute	Year
Ph.D.	Computer Science and Engineering	National Institute of Technology Sikkim, India	October, 2020
M. Tech.	Computer Science & Engineering (IT)	National Institute of Technology Durgapur, India	2012
B.Tech	Information Technology	Government College of Engineering and Ceramic Technology Kolkata, India	2010

TEACHING EXPERIENCE (10+ YEARS)

Position	Institute	From	To
Associate Professor	Visva-Bharati University, India (An Institute of National Importance, Government of India)	January, 2026	Till date
Assistant Professor	Indian Institute of Information Technology Ranchi, India (An Institute of National Importance, Government of India)	December, 2021	January, 2026
Assistant Professor	National Institute of Technology Sikkim, India (An Institute of National Importance, Government of India)	December, 2015	December, 2021
Assistant Professor	National Institute of Technology Sikkim, India (An Institute of National Importance, Government of India)	January, 2013	December, 2015

ADMINISTRATIVE RESPONSIBILITIES

Position & Responsibilities	Institute	From	To
FIC- Research and Infrastructure	Indian Institute of Information Technology Ranchi, India	May 2022	Feb 2023
FIC- Students' Affairs	Indian Institute of Information Technology Ranchi, India	April 2022	Feb 2023
FIC- High Performance Computing Centre	National Institute of Technology Sikkim, India	June 2017	Sept 2021
GATE Coordinator- Under TEQIP-III	National Institute of Technology Sikkim, India	June 2017	Sept 2021

PUBLICATION SUMMARY (DETAILS IN ANNEXURE 1)

Publications	Published/Accepted	Σ Impact factor	In revision	In review
International Journal	10 SCI/E	35	1 (SCIE)	2(SCIE)
Conference papers	12 (All Scopus) (4 IEEE, 5 Springer) [1 at foreign venue] [2 IEEE best paper awards]			
Book chapters	02 (Scopus CRC Press)			
Google Scholar citation metrics		Citations: 307	h-index: 10	i10-index:10

CAN SERVE- COURSE INSTRUCTOR

- Operating Systems
- Distributed Computing
- Nature Inspired Computing
- C Programming
- Data Structure
- Fundamentals of Algorithm
- High Performance Computing

PUBLICATION DETAILS

INTERNATIONAL JOURNAL (SCI/SCIE)

1. PKD Pramanik and **Tarun Biswas**, *MGA-LBaS: a Modified Genetic Algorithm based Load-balance aware Scheduling for Mobile Crowd Computing*, *Wireless Personal Communications*, Springer, Vol. xx, pp. xx-xx (2026) (in press). (**Impact Factor: 2.2**)
2. PKD Pramanik, **Tarun Biswas**, Prasenjit Choudhury, *Multicriteria-based Resource-aware Scheduling in Mobile Crowd Computing: A Heuristic Approach*, *Journal of Grid Computing*, Springer, Vol. 21, No. 1, pp. 1-29 (2023). (**Impact Factor: 2.9**)
3. Abhijeet Singh Thakur, **Tarun Biswas**, and Pratyay Kuila, "Binary Quantum-Inspired Gravitational Search Algorithm based Scheduling with Multi-criteria for Multi-Processor Computing Systems," *The Journal of Supercomputing* (Springer), Vol. 77, pp. 796-817 (2021) (**Impact Factor: 2.7**).
4. **Tarun Biswas**, Pratyay Kuila, and Anjan Kumar Ray, "A Novel Scheduling with Multi-Criteria for High Performance Computing Systems: An Improved Genetic Algorithm Based Approach," *Engineering with Computers* (Springer), Vol. 35, No. 4, pp. 1475-1490 (2019), (**Impact Factor: 4.9**).
5. **Tarun Biswas**, Pratyay Kuila, and Anjan K. Ray, "A Novel Workflow Scheduling with Multi-Criteria using Particle Swarm Optimization for Heterogeneous Computing Systems," *Cluster Computing* (Springer), Vol. 23, pp. 3255-3271, (2020) ,(**Impact Factor: 4.1**).
6. **Tarun Biswas**, Pratyay Kuila, and Anjan Kumar Ray, "A Novel Resource Aware Scheduling with Multi-Criteria for Heterogeneous Computing Systems," *Engineering Science and Technology, an International Journal* (Elsevier), Vol. 22, No. 2, pp. 646-655 (2019) (**Impact Factor: 5.4**).
7. **Tarun Biswas**, Pratyay Kuila, Anjan Kumar Ray, and Mayukh Sarker, "Gravitational Search Algorithm Based Novel Workflow Scheduling for Heterogeneous Computing Systems," *Simulation Modelling Practice and Theory* (Elsevier), Vol. 96, pp. 1-21 (2019) (**Impact Factor: 4.6**).
8. **Tarun Biswas**, Rajat Bhardwaj, Anjan Kumar Ray, and Pratyay Kuila, "A novel leader election algorithm based on resources for ring networks," *Int. Journal of Communication Systems* (Wiley), Vol. 31, No.10, pp. 1-13 (2018), (**Impact Factor: 1.8**)
9. PKD Pramanik, Tarun Biswas, Prasenjit Choudhury, *Particle Swarm Optimization based Load Balance-Aware Energy-Efficient Scheduling for Mobile Crowd Computing*, *SIMULATION*, Sage, Vol. 101 (2), pp. 159-176, 2024. (**Impact Factor: 2.0**)
10. PKD Pramanik, Tarun Biswas, Anjan Kumar Ray, *Unmanned Aerial Vehicle Assisted Resource Management for Defense Services*, *Journal of Defense Modeling and Simulation*, pp. 1-19, Sage, 2025. (**Impact Factor: 1.0**)

CONFERENCE PAPERS

1. Tarun Biswas and Pratyay Kuila, "Particle Swarm Optimization based Multi-criteria Scheduling for Multi-Core Systems," International Conference on Electrical and Electronics Engineering (ICE3-2020), IEEE, pp. 1-6 (2020). (**Best Paper Award**).
2. Tarun Biswas, Pratyay Kuila and Anjan Kumar Ray, "Multi-level queue for task scheduling in heterogeneous distributed computing system," ICACCS 2017, IEEE, pp. 1-6 (2017). (**Best Paper Award**)

PATENT

1. **Tarun Biswas** and Utpal Roy, "Quantum Inspired Object Target Assignment System", Design Patent, Design No. : 497648-001, June, 2026. (Certificate: Attachment 1).
2. Debjyoti Ghosh, Utpal Roy, and **Tarun Biswas**, "Human Activity Detection System using Reinforcement Learning", Design Patent, Design No. : 4505482-001, August, 2026. (Certificate: NYR).
3. **Tarun Biswas** "A Novel Resource Management Technique for Defense Services Using Unmanned Aerial Vehicle", Registration No. L-147195/2024, Govt. of India, Date-26/04/2024.

INVITED LECTURES/OTHER OUTREACH ACTIVITY

1. Expert Lecture: SERB Sponsored, Advanced Control Technique for Switched-Power Supply for Electric Vehicle, 11-17 March, 2024, NIT Jamshedpur.
2. Expert Lecture: On 25th January, 2024 at Department of Computer Science and Engineering, SidoKanho-Birsha University, West Bengal.
3. Expert Lecture: On 5th August, 2024 at Department of Computer Science and Engineering, University Engineering and Management, Kolkata, West Bengal.
4. Honorary Chair: 3rd ICIACS-2024, 16-17 March, 2024 by JNU, New Delhi and Warsaw Management University, Poland.
5. Convener: FDP on "Cloud Computing Challenges and Research Insights", 22-27 March, 2021, AICTE and NIT Sikkim.
6. Honorary Chair: 2nd International Symposium on Artificial Intelligence-2025, 05-07 March, 2025 by NIT Sikkim, India.

Date: 23th September, 2026

Place: Visva-Bharati, India

Tarun Biswas