

Pramit Biswas

pramitbiswas@live.com | +91 73014 71017 | Kolkata, India

OBJECTIVE

I am looking for a promising position that offers both challenges and a good opportunity for continuous growth.

EDUCATION

- **Indian Institute of Technology Patna** | Thesis submitted
PhD in Electrical Engineering
Visiting scholar at GSSST, Indian Institute of Technology Kharagpur
Research Topic: Energy-efficient IP-over-Elastic Optical Network Planning and Operation Strategies
- **Rajabazar Science College** | **University of Calcutta** | 2014
M.Tech. in Electrical Engineering | CGPA: 8.4 (out of 10)
Research Topic: Stochastic Optimization-based Parameter Estimation and Design of PID Controller for Twin Rotor MIMO System
- **Kalyani Government Engineering College** | **West Bengal University of Technology** | 2012
B.Tech. in Electrical Engineering | DGPA: 8.06 (out of 10)
Project Topic: Processor-based Temperature Controller

PROGRAMMING SKILLS

MatLab (daily driver in M.Tech and PhD for research), **Simulink** (used for hobby projects and M.Tech research), **Python** (started using for reinforcement learning in PhD, frequently use for website scraping and personal finance), **Latex** (use for medium to large document preparation), **C**, **C++** and **Assembly** (used in embedded projects), **HTML**, **CSS** and **JS** (used for hobby projects and www.iitp.ac.in/ieeesb website)

CERTIFICATION

Data Science for Business - Level 1, 2 | online | 2020

Organization: *cognitiveclass.ai, IBM*

Data Science Foundations – Level 1, 2 | online | 2020

Organization: *cognitiveclass.ai, IBM*

KPMG Lean Six Sigma Green Belt | 2016

Organization: *Henry Harvin Education*

Embedded System | 2011

Organization: *Moniba Compu Academy PVT. Ltd. with IBM*

SCHOLARSHIPS

- MHRD GATE
- **Visvesvaraya** PhD Fellowship, *MeitY, Govt. of India* (25% more fellowship amount than most of the other PhD Schemes)

PARTICIPATION

Organized and participated in several seminars, workshops, technical and non-technical events.

Volunteered as **Chair** at **IIT Patna IEEE Student Branch**.

AREAS OF INTEREST

Optimization heuristics and programming formulation | Machine learning | Optical Backbone Network | 5G/B5G Wireless-Optical Network | IoT/UAV/Drone Networks | Network automation: SDR, SDN, YANG, NETCONF, RESTCONF, NFV | micro-services | System automation | High-performance computing (HPC) | Quantum optimization.

PUBLICATIONS

▣ Journal

- Primit Biswas, and Aneek Adhya, “Energy-Efficient, EDFA Lifetime-Aware Network Planning along with Virtualized Elastic Regenerator Placement for IP-over-EON”, *Photonic Network Communications*, Springer, 41 (2021), pp.119-135.
- Primit Biswas, and Aneek Adhya, “Energy-Efficient Network Planning and Traffic Provisioning in IP-over-Elastic Optical Networks”, *Optik - International Journal for Light and Electron Optics*, Elsevier, 185 (2019), pp.1115-1133.
- Md Shahbaz Akhtar, Primit Biswas, and Aneek Adhya, “An ILP-Based CapEx and OpEx Efficient Multi-Stage TDM/TWDM PON Design Methodology”, *Optical Fiber Technology*, Elsevier, 46 (2018), pp.205-214.
- Primit Biswas, Satyajit Das, Debashree Guha and Aneek Adhya, “Wavelength-routed Optical Backbone Network Planning Under Fuzzy Environment”, submitted.

▣ Conference

- Md Shahbaz Akhtar, Jitendra Gupta, Primit Biswas, Aneek Adhya, and Sudhan Majhi, "Heuristic-Based Cost-Efficient C-RAN Fronthaul Deployment Over TWDM-PON." IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE), Dec. 2020, pp. 1-6, *Virtual*.
- Md Shahbaz Akhtar, Primit Biswas, Aneek Adhya, and Sudhan Majhi, "Cost-efficient Mobile Backhaul Network Design over TWDM-PON." IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), Dec. 2020, pp. 1-6, *Virtual*.
- Primit Biswas, Aneek Adhya, Shabaz Akhtar, Jitendra Gupta, and Sudhan Majhi, “EDFA Activesleep Transition Frequency and EDFA Occupancy Aware Dynamic Traffic Provisioning for Energy-efficient IP-over-EON,” IEEE International Conferences on Signal Processing and Communication Systems (ICSPCS), Dec. 2019, pp. 1–7, *Gold Coast, Australia*.
- Primit Biswas, Suman Kr Dey, and Aneek Adhya, “Auxiliary graph-based energy-efficient dynamic connection grooming for elastic optical networks,” IEEE Advanced Networks and Telecommunications Systems (ANTS), Nov. 2016, pp. 1–3, *IISC Bangalore, India*.
- Primit Biswas, Roshni Maiti, Anirban Kolay, Kaushik Das Sharma, Gautam Sarkar, “PSO Based PID Controller Design for Twin Rotor MIMO System”, IEEE Conference on Control, Instrumentation, Energy and Communication (CIEC), 2014, pp. 56-60, *Kolkata, India*.
- Primit Biswas, Anirban Kolay, Roshni Maiti and Kaushik Das Sharma, “A Novel Path Planning Algorithm for Single Camera-Based Mobile Robot Navigation”, Proceedings of Michael Faraday IET India Summit (MFIIS), Nov. 2013, CS-8, pp. 4.40, *Kolkata, India*.

LEISURE ACTIVITIES

Interested in the latest science and technology advancements | Financial market | Reading books | Sports: table tennis, cricket, swimming.