

# Call for Papers for the Special Session S8: Application of Quantum Computing System to solve Optimization Problems



**6th International Conference on Frontiers in Computing and Systems**

**(COMSYS 2025)**

**September 25-27, 2025**

**Organized by**

**Warsaw University of Technology, Warsaw, Poland**

**&**

**COMSYS Educational Trust**

## Session Organizers



**Dr. Anirban Bhattacharjee**  
(Lead)  
SVNIT Surat



**Dr. Anindita Banerjee**  
CDAC Pune



**Dr. Bibhash Sen**  
NIT Durgapur



**Dr. Aswath Babu**  
IIIT Dharwad

COMSYS 2025 is proud to host a Special Session focused on the cutting-edge role of quantum computing in solving complex optimization problems across domains like machine learning, logistics, cryptography, and more.

This session will bring together researchers, students, and industry professionals.

**The topics to be included in this special session are:-**

- Design of reversible and quantum circuits
- Quantum Annealing and its application in optimization
- Hybrid quantum-classical optimization strategies
- Quantum error correction
- Mapping of quantum systems to NISQ devices
- Performance evaluation of quantum optimization techniques
- Application of quantum computing in Machine Learning, Finance, Logistics, Astronomy, Security

### Important Dates:

**Paper Submission Deadline: July 31, 2025**

**Notification of Acceptance: August 20, 2025**

**Registration Due: August 30, 2025**

**Camera Ready submission: August 30, 2025**

**Main Sessions: September 25-27, 2025**

(All Accepted papers can be presented in hybrid mode)

Submission Link: <https://cmt3.research.microsoft.com/User/Login?ReturnUrl=%2FCOMSYS2025>