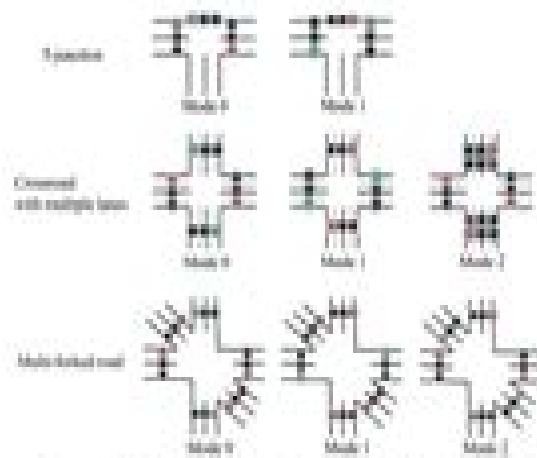


Traffic Signal Optimization using Quantum Annealing

Intersection State Definitions

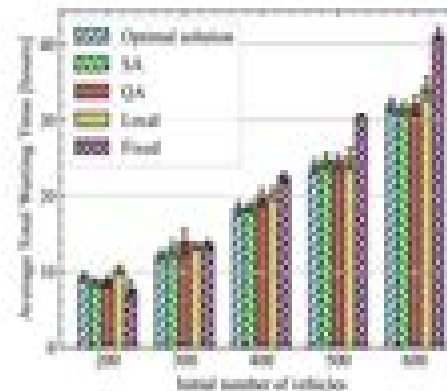


QUBO Formulation

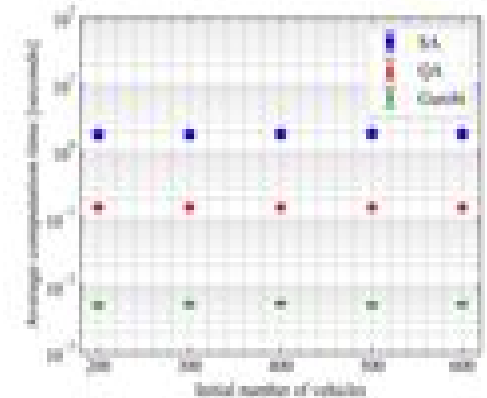
$$\min_{\vec{x}} H(\vec{x}) = - \sum_{lm} C_{lm} x_{lm} - \beta \sum_{(lm, jn)} B_{ij} R_{lm, jn} x_{lm} x_{jn} - \gamma \sum_l \left(\sum_m x_{lm} - 1 \right)^2$$

Results

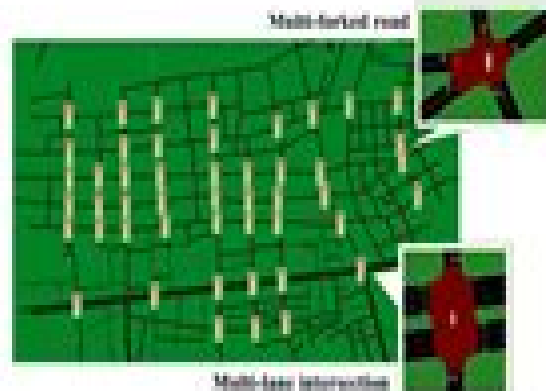
Total Waiting Time



Computation Time



Real-World Map Used in Simulation



- **Efficient Traffic Signal Optimization:**

The QUBO model reduces vehicle waiting times at complex intersections, achieving a reduction of up to 28.9% in high-traffic scenarios.

- **Quantum vs. Classical Solver Performance:**

Owing to hardware limitations, D-Wave quantum annealer is currently less accurate and slower than classical solvers such as Gurobi.

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Kathleen Armour



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Table of Contents Topics In Optimization

1. Understanding the eBook Topics In Optimization
 - The Rise of Digital Reading Topics In Optimization
 - Advantages of eBooks Over Traditional Books
2. Identifying Topics In Optimization
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Topics In Optimization
 - User-Friendly Interface
4. Exploring eBook Recommendations from Topics In Optimization
 - Personalized Recommendations
 - Topics In Optimization User Reviews and Ratings
 - Topics In Optimization and Bestseller Lists

5. Accessing Topics In Optimization Free and Paid eBooks
 - Topics In Optimization Public Domain eBooks
 - Topics In Optimization eBook Subscription Services
 - Topics In Optimization Budget-Friendly Options
6. Navigating Topics In Optimization eBook Formats
 - ePub, PDF, MOBI, and More
 - Topics In Optimization Compatibility with Devices
 - Topics In Optimization Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Topics In Optimization
 - Highlighting and Note-Taking Topics In Optimization
 - Interactive Elements Topics In Optimization
8. Staying Engaged with Topics In Optimization
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Topics In Optimization
9. Balancing eBooks and Physical Books Topics In Optimization
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Topics In Optimization
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Topics In Optimization
 - Setting Reading Goals Topics In Optimization
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Topics In Optimization
 - Fact-Checking eBook Content of Topics In Optimization
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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