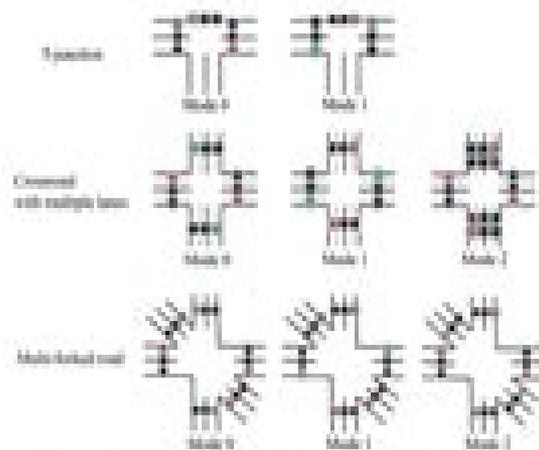


Traffic Signal Optimization using Quantum Annealing

Intersection State Definitions

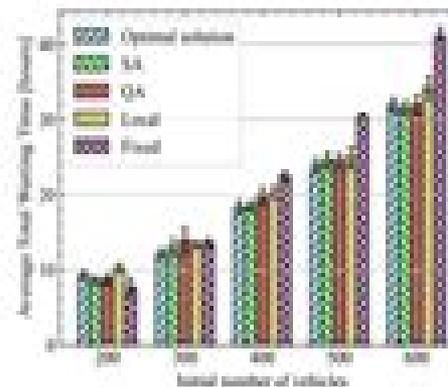


QUBO Formulation

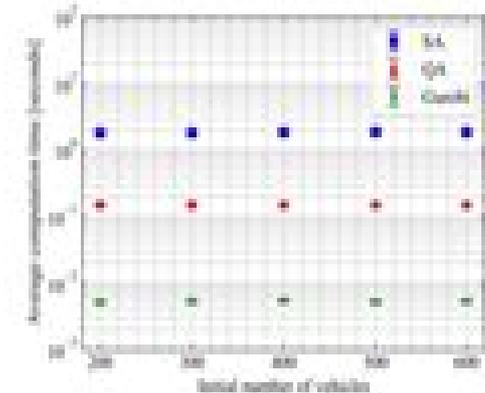
$$\min_{\vec{x}} H(\vec{x}) = - \sum_{lm} C_{lm} x_{lm} - \beta \sum_{(lm, jn)} B_{ij} R_{lm, jn} x_{lm} x_{jn} - \gamma \sum_l \left(\sum_m x_{lm} - 1 \right)^2$$

Results

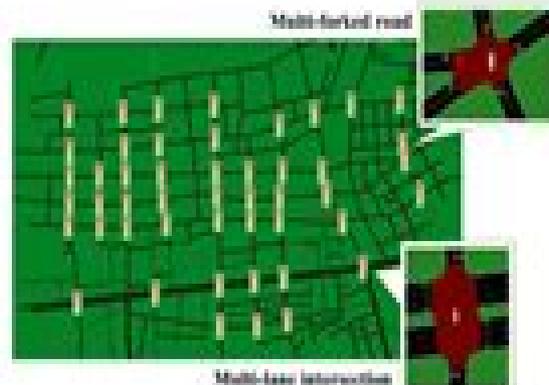
Total Waiting Time



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.

Topics In Optimization

**Sabri Arik, Tingwen Huang, Weng Kin
Lai, Qingshan Liu**

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Neural Information Processing Sabri Arik, Tingwen Huang, Weng Kin Lai, Qingshan Liu, 2015-12-08 The four volume set LNCS 9489 LNCS 9490 LNCS 9491 and LNCS 9492 constitutes the proceedings of the 22nd International Conference on Neural Information Processing ICONIP 2015 held in Istanbul Turkey in November 2015 The 231 full papers presented were carefully reviewed and selected from 375 submissions The 4 volumes represent topical sections containing articles on Learning Algorithms and Classification Systems Artificial Intelligence and Neural Networks Theory Design and Applications Image and Signal Processing and Intelligent Social Networks

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Secure Knowledge Management In The Artificial Intelligence Era Ram Krishnan, H. Raghav Rao, Sanjay K. Sahay, Sagar Samtani, Ziming Zhao, 2022-02-22 This book constitutes the refereed proceedings of the 9th International Conference On Secure Knowledge Management In Artificial Intelligence Era SKM 2021 held in San Antonio TX USA in 2021 Due to the COVID 19 pandemic the conference was held online The 11 papers presented were carefully reviewed and selected from 30 submissions They were organized according to the following topical sections intrusion and malware detection secure knowledge management deep learning for security web and social network

Cornell University Courses of Study Cornell University, 2007 *INFORMS Annual Meeting* Institute for Operations Research and the Management Sciences. National Meeting, 2005 *Nonlinear Optimization and Related Topics* Gianni Pillo, F. Giannesi, 2013-06-29 This volume

contains the edited texts of the lectures presented at the Workshop on Nonlinear Optimization held in Erice Sicily at the G Stampacchia School of Mathematics of the E Majorana Centre for Scientific Culture June 23 July 2 1998 In the tradition of these meetings the main purpose was to review and discuss recent advances and promising research trends concerning theory algorithms and innovative applications in the field of Nonlinear Optimization and of related topics such as Convex Optimization Nonsmooth Optimization Variational Inequalities and Complementarity Problems The meeting was attended by 83 people from 21 countries Besides the lectures several formal and informal discussions took place The result was a wide and deep knowledge of the present research tendencies in the field We wish to express our appreciation for the active contribution of all the participants in the meeting Our gratitude is due to the Ettore Majorana Centre in Erice which offered its facilities and rewarding environment its staff was certainly instrumental for the success of the meeting Our gratitude is also due to Francisco Facchinei and Massimo Roma for the effort and time devoted as members of the Organising Committee We are indebted to the Italian National Research Council and in particular to the Group on Functional Analysis and its Applications and to the Committees on Engineering Sciences and on Information Sciences and Technologies for their financial support Finally we address our thanks to Kluwer Academic Publishers for having offered to publish this volume

Introduction to Linear Systems Analysis Robert Grover Brown, James William Nilsson, 1962 **Topics in Convex Optimization for Machine Learning** Youngsuk Park, 2020 Convex optimization has been well studied as a mathematical topic for more than a century and has been applied in practice in many application areas for about a half century in fields including control finance signal processing data mining and machine learning This thesis focuses on several topics involving convex optimization with the specific application of machine learning **AICHE Symposium Series** American Institute of Chemical Engineers, 1997 EDRA; Proceedings of the Annual Environmental Design Research Association Conference Environmental Design Research Association, 1969 Mathematical Reviews , 2004

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