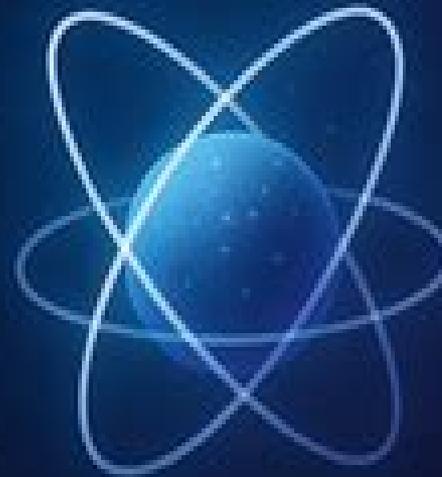
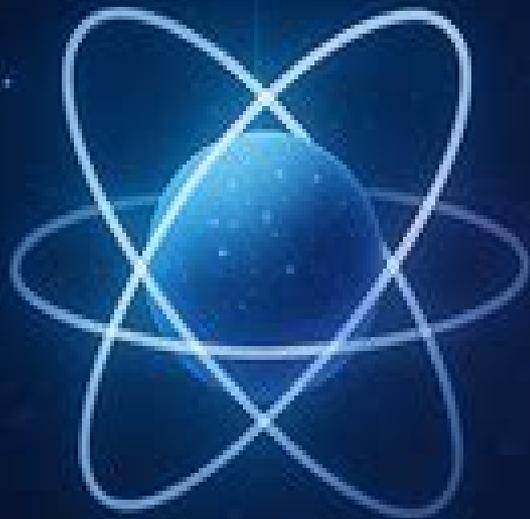


QUANTUM MACHINE LEARNING



Quantum Machine Learning Arxiv

Jianjun Gao



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Quantum Machine Learning (QML): Platform, Tools and Applications, 2026-02-16 Quantum Machine Learning QML Platform Tools and Applications Volume 140 in the Advances in Computers series explores the intersection of quantum computing and artificial intelligence highlighting advances that promise to revolutionize computational science The book introduces foundational concepts in quantum computing and circuits building toward the practical implementation of quantum machine learning QML algorithms Chapters address challenges such as the gradient vanishing problem in variational quantum circuits and explore powerful optimization methods enabled by quantum mechanics The volume also covers advanced applications including quantum approaches to smart grid management quantum Monte Carlo simulations and predictive modeling in numerical solvers using quantum neural networks Real world relevance is underscored through discussions of transformative quantum algorithms and their potential to reshape machine learning enabling unprecedented performance in data analysis optimization and beyond Contains novel subject matter that is relevant to computer science Includes the expertise of contributing authors Presents an easy to comprehend writing style

Machine Learning and Principles and Practice of Knowledge Discovery in Databases Rosa Meo, Fabrizio Silvestri, 2025-01-01 The five volume set CCIS 2133 2137 constitutes the refereed proceedings of the workshops held in conjunction with the Joint European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2023 which took place in Turin Italy during September 18 22 2023 The 200 full papers presented in these proceedings were carefully reviewed and selected from 515 submissions The papers have been organized in the following tracks Part I Advances in Interpretable Machine Learning and Artificial Intelligence Joint Workshop and Tutorial BIAS 2023 3rd Workshop on Bias and Fairness in AI Biased Data in Conversational Agents Explainable Artificial Intelligence From Static to Dynamic ML Law and Society Part II RKDE 2023 1st International Tutorial and Workshop on Responsible Knowledge Discovery in Education SoGood 2023 8th Workshop on Data Science for Social Good Towards Hybrid Human Machine Learning and Decision Making HLDM Uncertainty meets explainability in machine learning Workshop Deep Learning and Multimedia Forensics Combating fake media and misinformation Part III XAI TS Explainable AI for Time Series Advances and Applications XKDD 2023 5th International Workshop on eXplainable Knowledge Discovery in Data Mining Deep Learning for Sustainable Precision Agriculture Knowledge Guided Machine Learning MACLEAN MACHine Learning for EArth ObservatioN MLG Mining and Learning with Graphs Neuro Explicit AI and Expert Informed ML for Engineering and Physical Sciences New Frontiers in Mining Complex Patterns Part IV PharML Machine Learning for Pharma and Healthcare Applications Simplification Compression Efficiency and Frugality for Artificial intelligence Workshop on Uplift Modeling and Causal Machine Learning for Operational Decision Making 6th Workshop on AI in Aging Rehabilitation and Intelligent Assisted Living ARIAL Adapting to Change Reliable Multimodal Learning Across Domains AI4M AI for Manufacturing Part V Challenges and Opportunities of Large Language

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Santosh Kumar Srivastava,Durgesh Srivastava,Manoj Kumar Mahto,Ben Othman Soufiane,Praveen Kantha,2026-01-13
Fortify your digital defenses with this essential book which provides a roadmap for moving beyond the limitations of
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landscape of cybersecurity and AI *Proceedings of the 9th International Conference on Computer Engineering and
Networks* Qi Liu,Xiaodong Liu,Lang Li,Huiyu Zhou,Hui-Huang Zhao,2020-07-01 This book gathers papers presented at the
9th International Conference on Computer Engineering and Networks CENet2019 held in Changsha China on October 18 20
2019 It examines innovations in the fields of computer engineering and networking and explores important state of the art
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fields of computer engineering and networking particularly in intelligent computing and security Artificial Intelligence
and Intelligent Matter Michael te Vrugt,2026-01-13 This open access book provides an introduction to the role that Artificial
Intelligence AI plays in the study of nanosystems ranging from soft and active materials to optics and quantum condensed
matter This role is twofold On the one hand Artificial Intelligence finds many applications in this field and enables
researchers to solve problems that were not easily solvable before Very notable examples are the use of machine learning to

obtain energy functionals in density functional theory or the design of novel materials On the other hand researchers nowadays try to make the nanosystems themselves intelligent This idea sometimes referred to as intelligent matter can be realized in a plethora of ways including intelligent microswimmers optical neuromorphic computing and machine learning using quantum systems The book consists of four parts The first one provides a brief introduction to AI while the second and third ones introduce applications of AI to nanosystems and implementations of AI in nanosystems respectively Here a broad spectrum of physical systems is covered ranging from quantum magnetic and optical systems to soft and active matter Finally the fourth part provides some philosophical perspectives

ECAI 2020 Giuseppe De Giacomo, Bistra Dilkina, Michela Milano, Senén Barro, Alberto Bugarín, Jérôme Lang, 2020-09-15 This book presents the proceedings of the 24th European Conference on Artificial Intelligence ECAI 2020 held in Santiago de Compostela Spain from 29 August to 8 September 2020 The conference was postponed from June and much of it conducted online due to the COVID 19 restrictions The conference is one of the principal occasions for researchers and practitioners of AI to meet and discuss the latest trends and challenges in all fields of AI and to demonstrate innovative applications and uses of advanced AI technology The book also includes the proceedings of the 10th Conference on Prestigious Applications of Artificial Intelligence PAIS 2020 held at the same time A record number of more than 1 700 submissions was received for ECAI 2020 of which 1 443 were reviewed Of these 361 full papers and 36 highlight papers were accepted an acceptance rate of 25% for full papers and 45% for highlight papers The book is divided into three sections ECAI full papers ECAI highlight papers and PAIS papers The topics of these papers cover all aspects of AI including Agent based and Multi agent Systems Computational Intelligence Constraints and Satisfiability Games and Virtual Environments Heuristic Search Human Aspects in AI Information Retrieval and Filtering Knowledge Representation and Reasoning Machine Learning Multidisciplinary Topics and Applications Natural Language Processing Planning and Scheduling Robotics Safe Explainable and Trustworthy AI Semantic Technologies Uncertainty in AI and Vision The book will be of interest to all those whose work involves the use of AI technology

Industrial Quantum Computing
Umesh Kumar Lilhore, Surjeet Dalal, Vishal Dutt, Magdalena Radulescu, 2024-12-30 Industrial quantum computing IQC covers the applications of quantum computing innovations in general industry and industry 4 0 This book presents the application of quantum computations to the financial sector medical services the logistics industry and the manufacturing industry

Machine Learning with Quantum Computers Maria Schuld, Francesco Petruccione, 2021-10-17 This book offers an introduction into quantum machine learning research covering approaches that range from near term to fault tolerant quantum machine learning algorithms and from theoretical to practical techniques that help us understand how quantum computers can learn from data Among the topics discussed are parameterized quantum circuits hybrid optimization data encoding quantum feature maps and kernel methods quantum learning theory as well as quantum neural networks The book aims at an audience of computer scientists and physicists at the graduate level onwards The second edition extends the

material beyond supervised learning and puts a special focus on the developments in near term quantum machine learning seen over the past few years

The 10th International Conference on Science and Technology (ICST) Ganjar Alfian, Unan Yusmaniar Oktiawati, Yuris Mulya Saputra, Cecep Pratama, 2025-10-13 Selected peer reviewed full text papers from the 10th International Conference on Science and Technology ICST UGM 2024 Selected peer reviewed full text papers from the 10th International Conference on Science and Technology ICST UGM 2024 October 23 24 2024 Yogyakarta Indonesia

A Gentle Introduction to Quantum Machine Learning Yuxuan Du, Xinbiao Wang, Naixu Guo, Zhan Yu, Yang Qian, Kaining Zhang, Min-Hsiu Hsieh, Patrick Rebentrost, Dacheng Tao, 2025-10-25 Quantum machine learning QML is revolutionizing artificial intelligence by leveraging the power of quantum computing to access previously unimaginable computational possibilities However the field remains fragmented balancing rigorous quantum theory with practical AI applications remains a challenge This book bridges this gap offering a systematic hands on guide for AI researchers ML practitioners and computer scientists eager to explore this emerging frontier It provides a cohesive roadmap covering everything from fundamental quantum computing principles to state of the art QML techniques Readers will explore quantum kernel methods quantum neural networks and quantum Transformers gaining insight into their theoretical foundations performance advantages and practical implementations The book s code demonstrations offer hands on experience ensuring that readers can move beyond theory to real world applications Designed for those with an AI or ML background this tutorial does not assume prior expertise in quantum computing Instead it presents complex concepts with clarity making it an essential resource for researchers graduate students and industry professionals eager to stay ahead in the quantum AI revolution Whether you seek to understand quantum speedups develop quantum based models or explore future research directions this book provides the foundation you need to engage with QML and shape the future of intelligent computing

[An Introduction to Quantum Machine Learning for Engineers](#) Osvaldo Simeone, 2022-07-27 Provides a self contained introduction to quantum machine learning for an audience of engineers with a background in probability and linear algebra It first describes background concepts and tools and then moves on to applications

Progress in Informatics, 2010

Quantum Machine Learning Pethuru Raj, Houbing Herbert Song, Dac-Nhuong Le, Narayan Vyas, 2024-08-05 Quantum computing has shown a potential to tackle specific types of problems especially those involving a daunting number of variables at an exponentially faster rate compared to classical computers This volume focuses on quantum variants of machine learning algorithms such as quantum neural networks quantum reinforcement learning quantum principal component analysis quantum support vectors quantum Boltzmann machines and many more

[Cognitive Kin](#) Christophe Kolb, Jan Rosen, 2026-03-10 Now that AI has a will it s up to us to find a way For decades we built software that did what it was told and nothing else Agentic AI breaks this bargain systems that remember reason and pursue goals They arrive less like code and more like colleagues tireless fast and like any new hire occasionally in need of supervision In

Cognitive Kin Christophe Kolb and Jan Rosen map the threshold where artificial intelligence stops being a feature and becomes a workforce Drawing on firsthand experience at the frontier of agentic AI they show how digital labor becomes viable why org charts give way to networks of intent and how leadership shifts to orchestration They translate the machinery memory feedback loops tool use into plain language then follow the shockwave into strategy culture and governance This isn't tomorrow's speculation It's a present tense transition that is reshaping the meaning of work and creating new sources of value The advantage will belong to firms that learn to think with thinking things working alongside intelligent systems without outsourcing judgment meaning or responsibility **Journal of the Physical Society of Japan**, 2018 *Quantum Computing* Rajkumar Buyya, Sukhpal Singh Gill, 2025-07-01 *Quantum Computing Principles and Paradigms* covers a broad range of topics providing a state of the art and comprehensive reference for the rapid progress in the field of quantum computing and related technologies from major international companies such as IBM Google Intel Rigetti Q Control and academic researchers This book appeals to a broad readership as it covers comprehensive topics in the field of quantum computing including hardware software algorithms and applications with chapters written by both academic researchers and industry developers This book presents readers with the fundamental concepts of quantum computing research along with the challenges involved in developing practical devices and applications Covers key topics such as quantum hardware development quantum error correction quantum simulations and algorithms and quantum software development Includes coverage of practical applications of quantum computing in a variety of research and development fields such as quantum chemistry simulations quantum finance quantum traffic routing and more Presents state of the art research in the field of quantum computing covering the latest key developments and future directions *Quantum Machine Learning* Syed Nisar Hussain Bukhari, 2026-04-23 In the exploration of new frontiers in data driven solutions the potential of quantum enhanced machine learning has become too important to overlook Quantum machine learning though still in its formative stages holds the promise to tackle some of the most complex problems that lie beyond the reach of classical computing *Quantum Machine Learning Concepts Algorithms and Applications* is a guide to understanding such quantum principles as superposition and entanglement and how they can enhance learning algorithms and data processing capabilities The book features a carefully structured progression from foundational concepts and core algorithms to application driven case studies and emerging directions for future exploration The book provides a broad and in depth treatment of topics ranging from quantum data encoding and quantum neural networks to hybrid models and optimization frameworks Emphasis has also been placed on real world use cases and the practical tools available for implementation thereby ensuring that this book serves not only as a reference but also as a springboard for experimentation and innovation Highlights include the following Implementing quantum neural networks on near term quantum hardware Quantum variational optimization for machine learning Quantum accelerated neural imputations with large language models Emerging trends addressing hardware limitations algorithm

optimization and ethical considerations This book serves as both a primer and an advanced guide by providing essential knowledge for understanding and implementing quantum enhanced AI solutions in various professional contexts It equips readers to become active participants in the quantum revolution transforming machine learning Quantum Machine Learning Siddhartha Bhattacharyya,Indrajit Pan,Ashish Mani,Sourav De,Elizabeth Behrman,Susanta Chakraborti,2020-06-08 Quantum enhanced machine learning refers to quantum algorithms that solve tasks in machine learning thereby improving a classical machine learning method Such algorithms typically require one to encode the given classical dataset into a quantum computer so as to make it accessible for quantum information processing After this quantum information processing routines can be applied and the result of the quantum computation is read out by measuring the quantum system While many proposals of quantum machine learning algorithms are still purely theoretical and require a full scale universal quantum computer to be tested others have been implemented on small scale or special purpose quantum devices *Principles and Applications of Quantum Computing Using Essential Math* Daniel, A.,Arvindhan, M.,Bellam, Kiranmai,Krishnaraj, N.,2023-09-12 In the swiftly evolving realm of technology the challenge of classical computing s constraints in handling intricate problems has become pronounced While classical computers excel in many areas they struggle with complex issues in cryptography optimization and molecular simulation Addressing these escalating challenges requires a disruptive solution to push the boundaries of computation and innovation *Principles and Applications of Quantum Computing Using Essential Math* authored by A Daniel M Arvindhan Kiranmai Bellam and N Krishnaraj This guide pioneers the transformative potential of quantum computing by seamlessly blending rigorous mathematics with quantum theory It equips scholars researchers and aspiring technologists with insights to grasp and harness quantum computing s capabilities By delving into quantum gates algorithms and error correction techniques the book demystifies quantum computing inviting exploration of quantum machine learning cryptography and the dynamic interplay between classical and quantum computing As the quantum landscape expands this book acts as a vital companion navigating readers through the converging realms of industry academia and innovation *Principles and Applications of Quantum Computing Using Essential Math* arrives as a timely answer to the limitations of classical computing providing scholars with an essential roadmap to navigate the quantum technology landscape With its clear explanations practical applications and forward looking perspectives this book serves as an indispensable tool for unraveling quantum computing s mysteries and driving innovation into uncharted domains **Era of Artificial Intelligence** Rik Das, Madhumi Mitra, Chandrani Singh, 2023-07-10 This text has attempted to collate quality research articles ranging from A Mathematical Disposition for Neural Nets to Cognitive Computing to Quantum Machine Learning to a Multimodal Emotion Recognition System to Responsible AI to AI for Accessibility and Inclusion to Artificial Enabled Intelligence Enabled Applications in the sectors of Health Pharma and Education Features Focus on AI research and interdisciplinary research that exhibits AI inclusion to a greater degree Focus on application of disruptive technology in the

context of the twenty first century human and machine approach Focus on role of disruptive technology such as cognitive computing quantum machine learning IOT enabled recognition systems Focus on unravelling the powerful features of artificial intelligence for societal benefits including accessibility This volume will cater as a ready reference to an individual s quest for deep diving into the ocean of artificial intelligence enabled solution approaches The book will serve as a useful reference for researchers innovators academicians entrepreneurs and professionals aspiring to gain expertise in the domain of cognitive and quantum computing IOT enabled intelligent systems and so on

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