

Quantum Machine Learning



Quantum Machine Learning Arxiv

Clemens Wendtner



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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

Models in Real World Machine Learning Applications Deep learning meets Neuromorphic Hardware Discovery challenge
ITEM IoT Edge and Mobile for Embedded Machine Learning LIMBO LearnIng and Mining for BLockchains Machine Learning
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Advancements in Federated Learning *Generative Artificial Intelligence for Next-Generation Security Paradigms* 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 traditional
encryption by leveraging generative AI algorithms to proactively anticipate detect and mitigate the next generation of cyber
threats in real time In recent years encryption has shown limitations as the sole safeguard against cyber threats in an
increasingly interconnected world While encryption remains a crucial component of cybersecurity it is no longer sufficient to
combat the evolving tactics of malicious actors This book advocates for a paradigm shift towards leveraging generative AI
algorithms to anticipate detect and mitigate emerging threats in real time Through detailed case studies and practical
examples the book illustrates how these AI driven approaches can augment traditional security measures providing
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cybersecurity exploring how generative AI technologies can revolutionize security paradigms beyond traditional encryption
methods Authored by leading experts in both AI and cybersecurity the book presents a comprehensive examination of the
challenges facing modern digital security and proposes innovative solutions grounded in generative AI By combining
theoretical frameworks with actionable insights this book serves as a roadmap for organizations looking to fortify their
defenses in an era of unprecedented cyber threats making it an essential resource for anyone invested in the evolving
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
developments in areas such as Information Security Information Hiding and Cryptography Cyber Security and Intelligent
Computing and Applications The book also covers emerging topics in computer engineering and networking along with their
applications discusses how to improve productivity by using the latest advanced technologies and examines innovation in the
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

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

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

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

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

A Gentle Introduction to Quantum Machine Learning Yuxuan Du,Xinbiao Wang,Naixu Guo,Zhan Yu,Yang Qian,Kaining Zhang,Min-Hsiu Hsieh,Patrick Rebstrost,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.

Journal of the Physical Society of Japan, 2018

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 routine 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.

Quantum Minds: Exploring Quantum Computing and AI Synergy Madhusudan Singh, Bharat S. Rawal, 2026-02-04

This book serves as an accessible yet in-depth introduction to this cutting-edge intersection where quantum theory and machine learning unite to unlock new computational possibilities. This book is crafted for students, educators, researchers, and forward-looking professionals in STEM and business fields who wish to gain a foundational understanding of Quantum AI. It breaks down complex topics into digestible concepts, guiding readers through the fundamentals of quantum mechanics, the mechanics of intelligent systems, and the emerging field of quantum machine learning. While tremendous progress has been made individually in both quantum computing and AI, there remains a gap in accessible resources that explain their integration. This book fills that void by presenting a holistic overview of how quantum principles can elevate machine learning processes, offering insights into optimization, modeling, simulation, and data processing at scales previously unimaginable with classical methods. Students gain a valuable interdisciplinary foundation in a rapidly growing area of computing, learning both the technical underpinnings and applied potential of Quantum AI.

Educators appreciate the book's structured layout, engaging content, and classroom-ready elements such as illustrative examples, reflection prompts, and references for further study that support both conceptual understanding and practical exploration. Whether you're a learner preparing for the next wave of technological disruption or an instructor shaping tomorrow's innovators, quantum minds equips you with the tools to navigate and contribute to the evolution of intelligent quantum-powered technologies.

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 Computing and Artificial Intelligence Shaukat Ali, Francisco Chicano, Alberto Moraglio, 2026-02-12
This book constitutes the proceedings of the Second International Workshop on Quantum Computing and Artificial Intelligence (QC/AI 2026) which took place in Singapore on January 27, 2026. The 7 full papers included in this book were carefully reviewed and selected from 17 submissions. They deal with up-to-date topics in quantum optimization and quantum machine learning.

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.

Unveiling the Magic of Words: A Report on "**Quantum Machine Learning Arxiv**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Quantum Machine Learning Arxiv**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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