

Media Information
20 July 2022

BMW Group hosts first conference on quantum computing for Automotive Challenges

Announcement of promising and innovative collaborations as follow-ups of the BMW Group Quantum Computing Challenge. BMW Group brings Quantum Computing Community together to bridge the gap between foundational and applied research. BMW Group strengthens Munich Quantum Valley.

Munich. With the event "Quantum Computing for Automotive Challenges", the BMW Group is once again underscoring its leading role in the development of a quantum ecosystem. The BMW Group sees its role not only as one member of the quantum computing community but wants to actively network, collaborate and thereby bridge the gap between foundational and applied research.

"With the BMW Group Quantum Computing Challenge, we provided well-described industry reference problems representing the automotive industry. We are confident that this inspires the community to make industry application of quantum computing a reality." says Dr. Andre Luckow, Head of Innovations & Emerging Technologies at BMW Group IT.

At this year's event, from 20. - 21. July 2022, hosted by the [BMW Group](#), all 15 finalists of the Quantum Computing for Automotive Challenge will have the opportunity to present their ideas and solutions. All 15 finalists provided remarkable submissions to the challenge that deserve to be acknowledged by the larger ecosystem. The BMW Group and the main sponsor Amazon Web Services Inc. (AWS) invite the global quantum computing community to join this event.

Register at this [link](#) to join the event virtually.

On Day 1, it is time to spotlight the results of last year's BMW Group Quantum Computing Challenge. A winning team was selected for each of the four specific industrial challenges identified as the most promising

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algorithm to address them. However, all finalists will have the chance to showcase their approach. The event will take place online.

On Day 2 keynote speeches by industry leaders from BMW Group and Amazon Web Services Inc. (AWS) and panel discussions with members from large industry, academia, and quantum solution providers will mark the day. We welcome the panelists and invited guests at the BMW Group Startup Garage Office in Garching. The event will be broadcasted and streamed publicly.

Quantum Computing is one of the most promising future technologies in the automotive sector. It has enormous potential for material sciences, complex optimization, and AI problems. Information can be handled through laws of quantum mechanics in a quantum computer. Thereby computational operations on information stored in different registers can be performed at the same time.

In 2021, the BMW Group, in collaboration with Amazon Web Services Inc. (AWS), conducted a Crowd Innovation Initiative. We asked the global quantum computing community to develop innovative quantum algorithms for four specific industrial challenges and test them on real quantum computing hardware. More than 70 teams from all over the world participated. We identified and announced a winning team for each of the four challenges last year. This event serves to honor all 15 finalists of the challenge and to maintain the momentum of the vibrant community.

All information to be found under: <https://challenge.quantum.bmw.cloud/>

Twitch Livestream: https://www.twitch.tv/aws_events

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The BMW Group

With its four brands BMW, MINI, Rolls-Royce and BMW Motorrad, the BMW Group is the world's leading premium manufacturer of automobiles and motorcycles and also provides premium financial and mobility services. The BMW Group production network comprises over 30 production sites worldwide; the company has a global sales network in more than 140 countries.

In 2021, the BMW Group sold over 2.5 million passenger vehicles and more than 194,000 motorcycles worldwide. The profit before tax in the financial year 2021 was € 16.1 billion on revenues amounting to € 111.2 billion. As of 31 December 2021, the BMW Group had a workforce of 118,909 employees.

The success of the BMW Group has always been based on long-term thinking and responsible action. The company set the course for the future at an early stage and consistently makes sustainability and efficient resource management central to its strategic direction, from the supply chain through production to the end of the use phase of all products.

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