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Quantum inspired computing: technology & strategy and applications

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Abstract

Q-STAR (Quantum Strategic industry Alliance for Revolution) is general incorporated association to create quantum-related industries and businesses. Quantum computing is one of scope in Q-STAR. Quantum gate computing is definitely a candidate of future computing, but, from the industrial point of view, it will take more than several years to realize a mature quantum gate computer implemented into the society.

Alternatively, quantum inspired computing is a mature computing and recently has been garnering attention.

In this talk, I will give a brief introduction of Q-STAR and quantum inspired computing which is used in the subcommittee on combinatorial optimization problem to create quantum-related use-cases. I will also give use-cases by utilizing quantum inspired computing. Following that I will discuss about future computing candidates next decade.