

Quantum Computing: A new paradigm nears the horizon

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Abstracts

This study looks into the present perspective of quantum computing and its present state of development, as well as its future outlook.

The study proposes an accessible description of the new computing paradigm brought by quantum technology and presents the potential applications and benefits that the new approach would bring. It also focuses on the potential consequences for cybersecurity and telecommunications.

Alongside the perspective it offers on the current quantum computing ecosystem, the study outlines a vision of the current state of development of the technology. This includes an analysis of the positioning of key players (IBM, Microsoft, D-Wave) and of the investment programmes of some 12 key nations including USA, China, parts of the EU, Russia, Japan and South Korea.)

Finally the study analyses the likely development of the technology and its foreseeable impacts.

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