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**Quantum Information Science** 

We are at the dawn of a new technological revolution. Just as the 19th century was the Machine Age and the 20th century was the Information Age, the 21st century promises to go down as the Quantum Age. Harnessing and controlling the counter-intuitive properties of quantum mechanics will enable previously unimaginable technologies that will transform the ways we work, communicate and live. Quantum information processing forces us to learn a new language — one that describes the behaviours and interactions of the universe's most fundamental building blocks. We are now learning