

Title: Extending CMOS Technology to Sustain Kurzweil's Law

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Abstract:

As practical limits for transistor miniaturization are reached, alternative approaches for improving integrated-circuit functionality and energy efficiency at acceptable cost will be necessary to meet growing demand for information and communication technology. This presentation will discuss how CMOS technology can be extended to monolithically integrate nano-electro-mechanical switches for dramatic improvements in computational speed and energy efficiency, to sustain Kurzweil's Law of accelerating returns.