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Integrated Circuits 4

Awesome Discoveries made

with LIDAR Technology ~~This~~

~~Is the End of the Silicon~~

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END of Silicon \u0026 Future

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*Will Change Computing
Forever... If We Can Get
Them Right ~~Fiber optic
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Silicon photonics microring
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Optimization Under

Fabrication Non-Uniformity

*Photonics, the technology
that is coming at us with
the speed of light What Is*

Optical Computing (Light

Speed Computing) ~~What is~~

~~PHOTONIC INTEGRATED CIRCUIT?~~

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~~What does PHOTONIC
INTEGRATED CIRCUIT mean?~~

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Silicon Photonics Silicon

Photonics can be defined as the utilization of silicon-based materials for the generation, guide, control and detection of light to

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123seminaronly communicate over distances.
Optical technology suffered
from a reputation as an
expensive solution, based on
high cost of hardware

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the concepts of the
technology, taking the
reader through the
introductory principles, on
to more complex building
blocks of the optical

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postgraduate students
studying fibre optics,
integrated optics, or

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optical network technology.

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Silicon photonics is the
study and application of
photonic systems which use

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silicon as an optical medium. The silicon is usually patterned with sub-micrometre precision, into microphotonic components. These operate in the infrared, most commonly at the 1.55 micrometre

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wavelength used by most
fiber optic
telecommunication systems.

Silicon photonics -
Wikipedia

Abstract Silicon photonics
is a vibrant technology area

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in which photonic integrated circuits and components are made of silicon. The main driving force behind its development is the prospect of low-cost manufacture. This is possible due to its compatibility with CMOS

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processing techniques, which
lead to high volumes and
high yield.

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In most AWGs demonstrated in silicon, the geometry of the aperture at the input (object plane) and output (image plane) is identical: this results in a maximal overlap when the shifted image is perfectly aligned

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with one of the output
apertures (i.e. at a given
wavelength).

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