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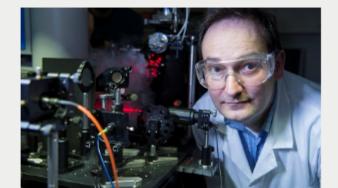


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As today's computers show fundamental limitations in calculation capacity for

Photon Source Lighting the Way for Quantum Computing

future use, a scalable, electrically driven photon source could make quantum computing a reality sooner than expected. Quantum computing — a technology for designing computers based on quantum mechanics, the science of atomic structure and function — uses the qubit, or quantum bit, which can hold an infinite number of values.



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Artificial intelligence algorithms can potentially enhance future automated driving mobility applications. These same deep-learning algorithms could also increase

AI Dialog Brings Together Humans and Their Machines

visual object detection to further enhance human-machine dialog. In a joint venture, international technology company Continental and the University of Oxford are now conducting research in the field of artificial intelligence as it applies to the auto industry.





Through the Human Body







Light Could Propel Nanorobots on a "Fantastic Voyage"

Light-driven synthetic nanorobots, comparable in size to a blood cell, could someday travel through the human body to aid surgeons in the removal of tumors and deliver targeted medications. A nanorobot that uses light as its



propelling force has been demonstrated by a research team at Hong Kong University (HKU).

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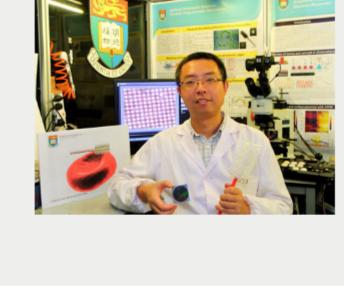






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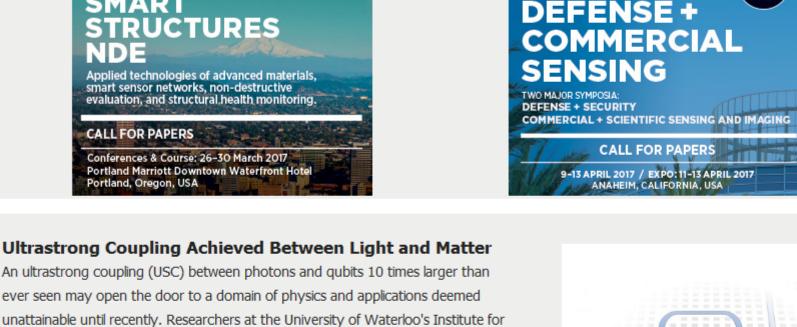


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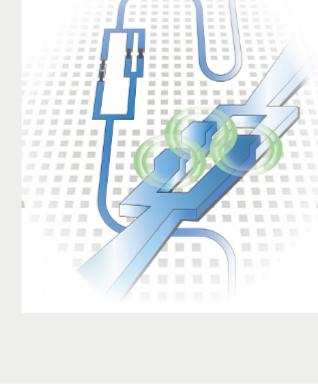




Quantum Computing (IQC) are investigating light-matter interactions in quantum

An ultrastrong coupling (USC) between photons and qubits 10 times larger than ever seen may open the door to a domain of physics and applications deemed

optics. For their research, they fabricated aluminum circuits and then cooled them in dilution refrigerators to one percent of a degree above absolute zero, making the circuits superconducting and able to carry a current without resistance or loss of energy.



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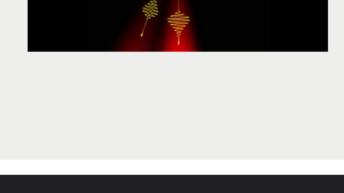
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Devices such as nanoantennas can control the propagation of electromagnetic waves, but only to a certain degree. A proposed nonlinear optical nanoantenna

the development of optical computers where information is carried by photons, rather than electrons, greatly increasing the speed of transmitting and processing of information. **3 4 8 6 0** Read Article **More Headlines**

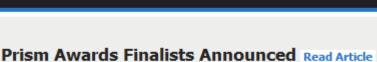
that can be manipulated, will operate at 250 Gbps, shining light, so to speak, on











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