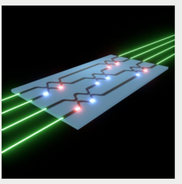
Thursday, July 26, 2018

This Week In PHOTONICS

PHOTONICS MEDIA

Top Stories

Researchers Move Closer to Completely Optical Artificial Neural Network
Researchers have shown that it is possible to train artificial neural networks directly on an optical chip. The research demonstrates that an optical circuit can perform a critical function of an electronics-based artificial neural network, and that it could enable less expensive, faster, and more energy-efficient ways to perform tasks such as speech or image recognition.



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Optically Levitated Nanodumbbell Could Further Study of Quantum Mechanics
Using levitated optomechanics, a man-made rotor has been created that can spin at 60 billion revolutions per minute. Such ultrafast rotation could be used to study material properties and probe vacuum friction.

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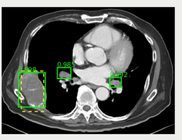
Open Access to Medical Imaging Dataset Could Advance Computer-Aided Detection
Researchers announce the open availability of the largest CT lesion-image database accessible to the public. DeepLesion, created by a team from the National Institutes of Health (NIH) Clinical Center, could help foster the development of deep-learning approaches for computer-aided detection (CADe) and diagnosis (CADx).



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Featured Products

Micro-Tactical Cable

AFL
AFL's new Micro-Tactical Fiber Optic Cable combines the ruggedness of military tactical cable designs with the ultra-high fiber density of AFL's micro-cable technology. Designed for rapid deployment in optical networks requiring high mechanical performance specifications, extreme environmental exposure, and highly dynamic operating conditions..

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Laser Welding Photonic Devices

Amada Miyachi America Inc.
AMADA MIYACHI's LF range of fiber lasers are efficient, low maintenance manufacturing tools that offer precise control and a range of beam qualities which can be tuned for each specific welding application. They are particularly well suited for small component welding, like photonic device welding and electrical connections.

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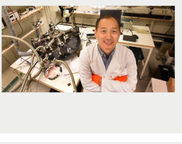
More News

Design Rules for Building Efficient Organic Solar Cells
Twenty-five researchers from seven research institutes in Europe, the U.S., and China have collaborated to draw up rules for designing high-efficiency organic solar cells. The design rules, which challenge some previously held ideas, have been published in Nature Materials.



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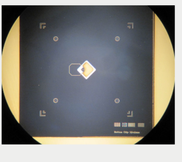
Device Could Provide Quantum-Compatible Link Between Microwave and Optical Domains
A device that uses a small plate to absorb microwave energy and bounce it into laser light could provide a solution for sending quantum signals over long distances. Scientists have developed a mechanically mediated microwave-optical converter.



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Single-Photon Source Could Help Secure Quantum Data Read Article

Industry Events

SPIE Optics & Photonics 2018
August 21-23, 2018 · San Diego Convention Center · San Diego United States
Photonics Media Booth: 315
This is the premier event for optical engineering and applications, nanotechnology, quantum science, and organic photonics. You will learn about and gain access to innovative technologies that help industry, academia, and government understand and develop new photonics technologies and emerging applications. Multiple research and technology areas will be represented in three conferences: Nanoscience + Engineering, Organic Photonics, and Optical Engineering. The event will include instruction from leading experts, special events, optical sciences and technology exhibits, and more.

More Info

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