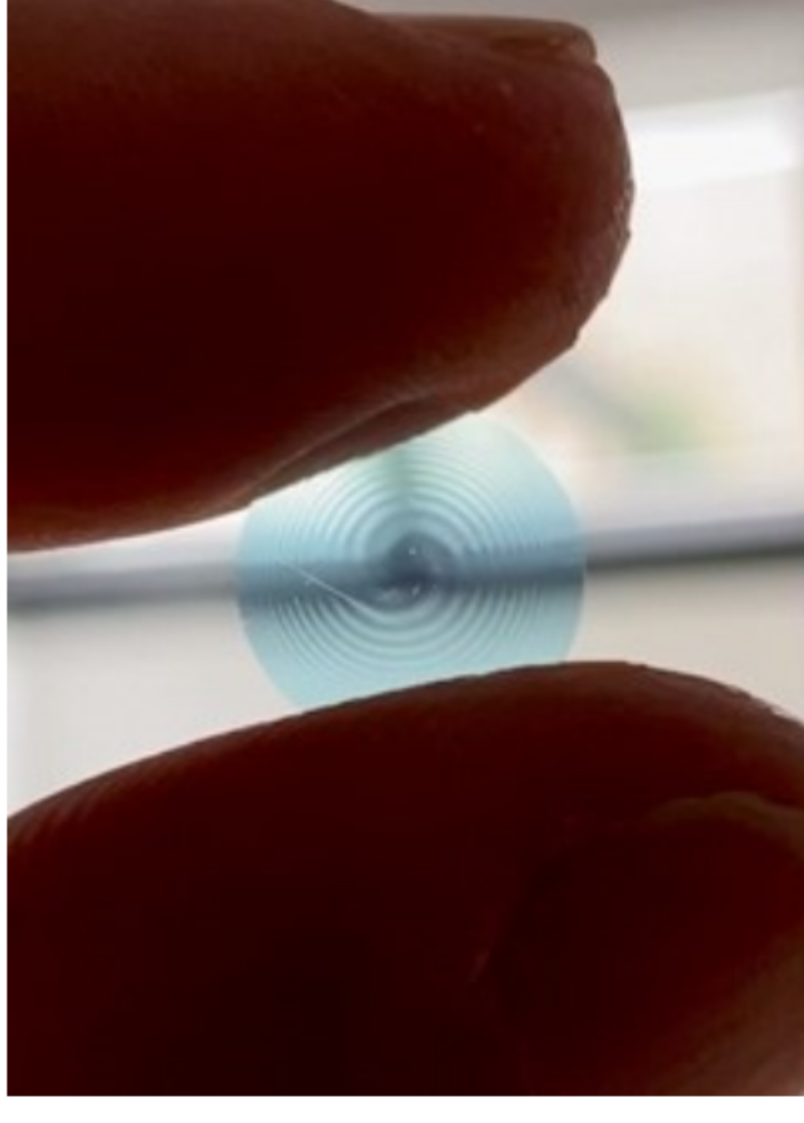




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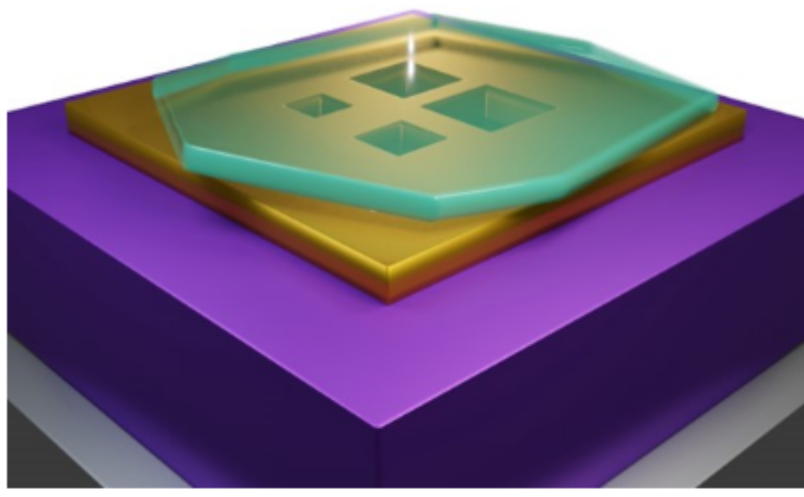
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Spiral Lens Extends Focal Length and Depth of Vision in Changing Conditions

A new, spiral-shaped lens could make consistently clear vision possible for people with lens implants or age-related farsightedness. The spiral diopter works similarly to progressive lenses used for vision correction, while foregoing the often-found distortions. Its spiral shape creates many separate points of focus, allowing the user to see clearly at different distances and in various light conditions.

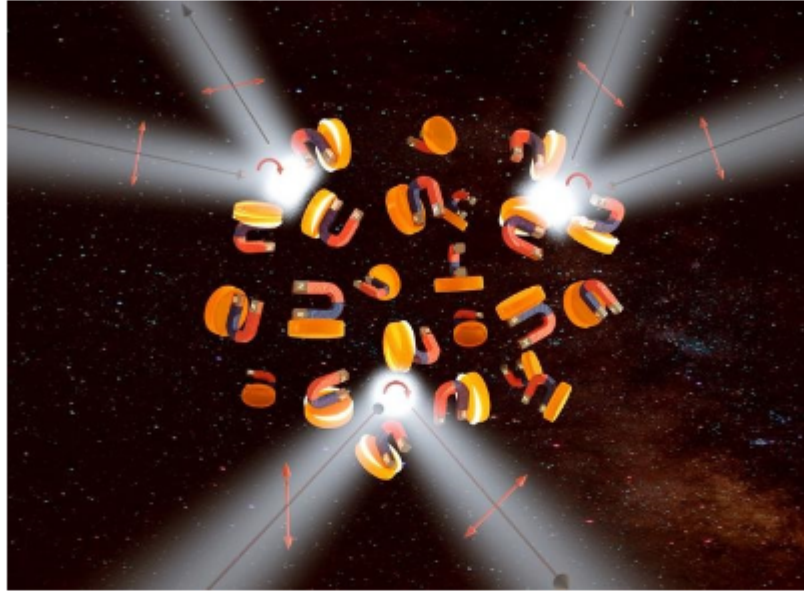
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Nanocavity Approach Enables Unprecedented Confinement, Lifetime

Researchers from ICFO have introduced a type of polaritonic cavity which redefines the limits of light confinement. The work demonstrates an unconventional way of confining photons, overcoming traditional limits in nanophotonics.

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Metamaterial's Magnetolectric Response Could Enable New Applications

An optical metamaterial from Aalto University has the potential to enable applications that would otherwise need a strong external magnetic field to work, including one-way glass. [Read Article](#)

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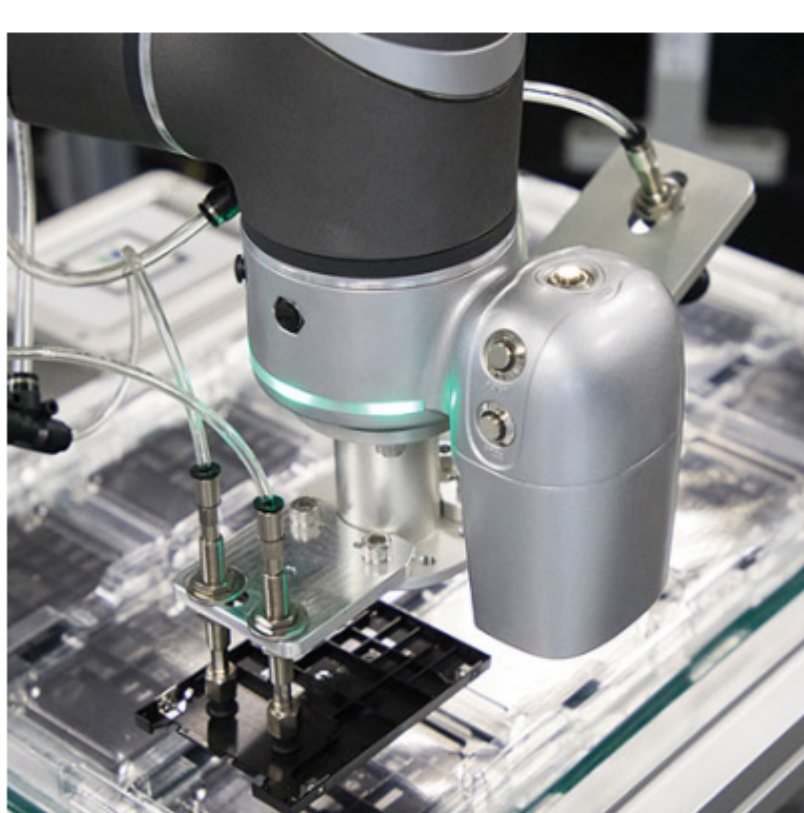
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Latest Webinars



Enhancing Robot Performance with Industrial Vision

Wed, Feb 28, 2024 1:00 PM - 2:00 PM EST

In this webinar, Mark Noschang and Renato Osaki from Omron delve into the crucial role of industrial vision in revolutionizing robot performance across various applications. From fixed industrial robots to collaborative robots and autonomous mobile robots, the integration of vision technology has become increasingly vital for enhancing navigation capabilities, product manipulation, and quality verification in manufacturing environments. They explore how vision is used in each robot type, showcasing real-world examples and highlighting the benefits it brings. Discover how industrial vision is shaping the future of robotics and unlocking new possibilities for flexibility, traceability, and adaptability in automation.

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Electromagnetic Manipulation: Revolutionizing Machine Vision

Tue, Mar 5, 2024 1:00 PM - 2:00 PM EST

Join this webinar as Ryan Marti of Omron Automation delves into the realm of unique machine vision applications that push the boundaries of automation. Discover how machine vision technology can inspect cookies within the packaging, detect mold in rice for food safety, and even remove particulates from the air and cosmos. These groundbreaking solutions have the potential to revolutionize industries, ensure safer food and enhanced electronics, and unveil the universe like never before. In this

session, Marti shares invaluable insights into the challenges faced in the machine vision and automation world and explores how to transcend normal visual spectrums to solve previously unsolvable problems. Get an exclusive firsthand look at the technologies and methodologies employed in these remarkable applications. Don't miss this opportunity to witness the power of machine vision in unlocking new possibilities for automation. Presented by Omron Automation.

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