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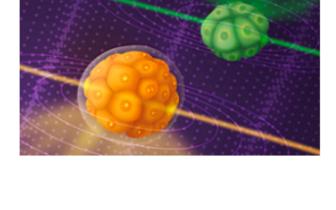
Portability

Production

Development Researchers have applied line-scanning Brillouin microscopy (LSBM), a microscopy technique based on Brillouin scattering, to visualize the

Century-Old Effect Applied for Study of Embryonic

mechanical properties of living cells over space and time, and to provide fast 3D imaging with low phototoxicity. Researchers at the European Molecular Biology Laboratory developed the approach, and used it to noninvasively track the mechanical properties of developing embryos at high speed and resolution. Read Article

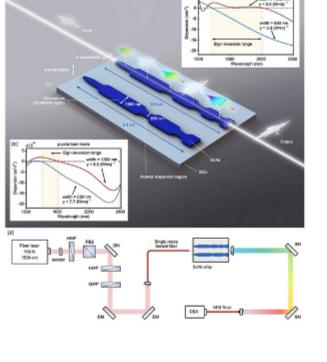


researchers at the University of Twente is poised to enable applications ranging from portable medical imaging devices to chemical sensing

On-Chip Supercontinuum Laser Holds Promise in

An ultra-efficient on-chip supercontinuum laser developed by

and lidar. The researchers' design enabled control over the dispersion of light in the laser system by alternately widening and narrowing the beam of light. Read Article



to commercialize a measuring system developed at the institute. The scientists formed DIVE imaging systems GmbH to roll out a high-

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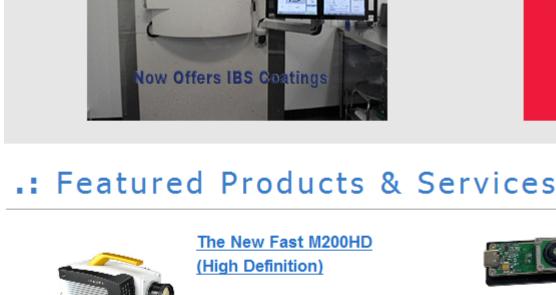
Fraunhofer Spinoff's Hyperspectral Tech to Aid Chip

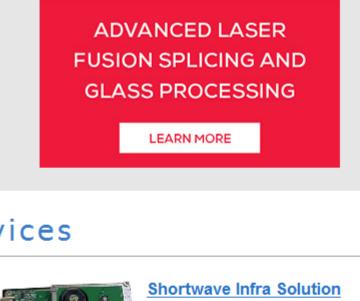
Researchers from the Fraunhofer Institute for Material and Beam

Technology IWS (Fraunhofer IWS) have established a spinoff company

performance, highly flexible inspection system that features integrated hyperspectral sensor technology, artificial intelligence, and special illumination techniques. Read Article







Provider

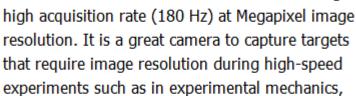
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NDT, and image signature.

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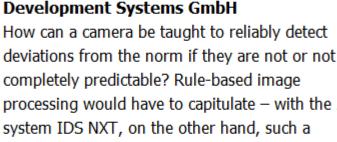
How to Detect Anomalies



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completely predictable? Rule-based image processing would have to capitulate – with the AI

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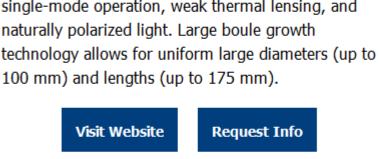
challenge can be easily solved from now on.

Detect anomalies:

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#idshasvision



No No No No No

Advantages include low beam divergence, efficient single-mode operation, weak thermal lensing, and naturally polarized light. Large boule growth

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Synoptics

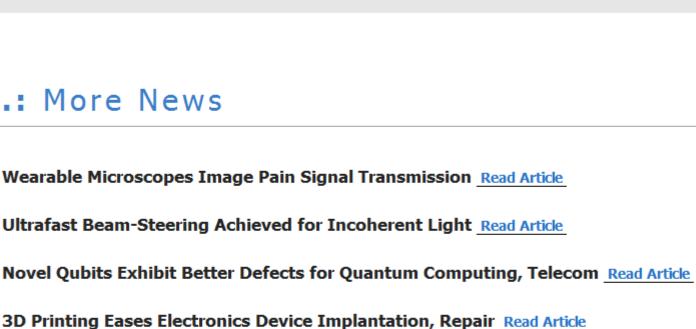
lithium fluoride (YLF) crystals doped with a variety

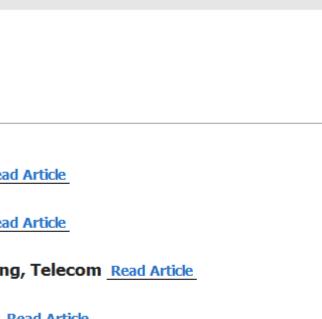
of rare earths such as Nd, Pr, Tm, Yb, Er, and Ho.

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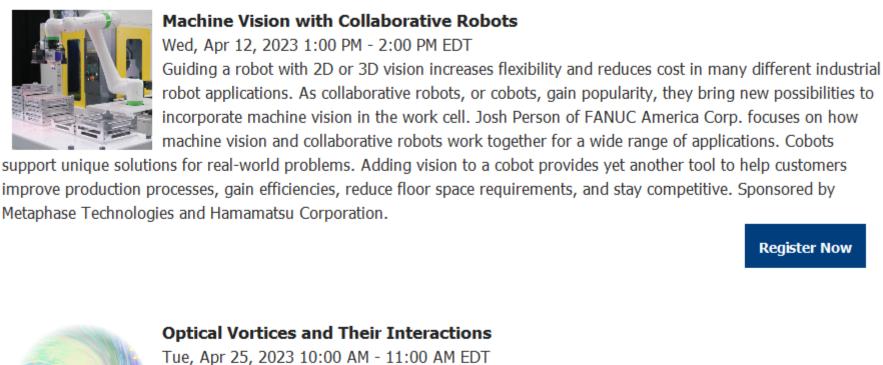
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vortices, concisely explaining the key experimental methods and theory. He also shares the principles that determine the unusual features of optical vortex interactions with matter. At the quantum level, simple symmetry principles explain a range of novel effects, while in the broader fields of singular optics and structured light, topology is more relevant. Some of the latest studies reveal especially striking phenomena at the

focal point of vortex beams. Despite optical vortices' simple basis, the field is one in which wave optics, quantum theory, and symmetry can all reveal their distinctive effects in straightforward experiments.

With its goal to cultivate and foster photonics-driven progress in the

ecosystem of photonic chip technology organizations. Around the central technology area of integrated photonics, the ecosystem's

current aim is to leverage decades of expertise and dozens of strategic

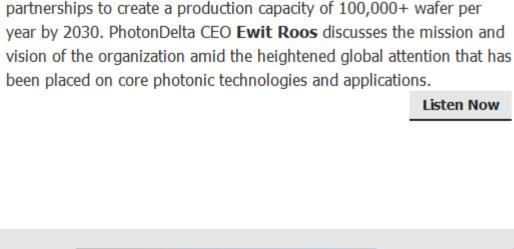
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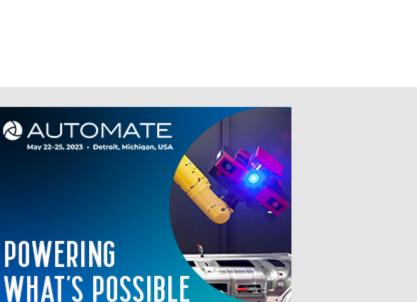
.: All Things Photonics

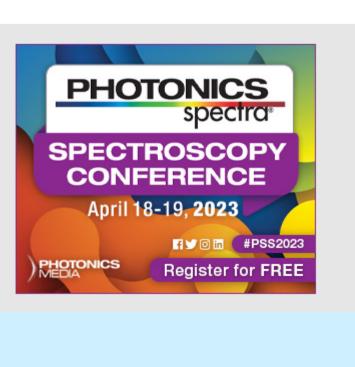
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