This Week In

















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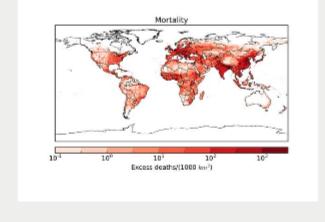


Top Stories

Could Help Researchers in Germany believe air pollution is responsible for 8.8

World Faces Air Pollution Threat, and Light Technology

million deaths per year, according to a study published March 3 in Cardiovascular Research. However, research by SPECTARIS, the Fraunhofer Institute, TEMATYS, and Messe München suggests that by 2030, photonic technology applications could lessen worldwide carbon dioxide output by 3 billion tons.



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Researchers from Ben-Gurion University of the Negev's Cyber Security Research Center found that they can trick the autopilot on an autonomous vehicle to erroneously apply its brakes in response to "phantom" images projected on a road or billboard.



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Orienteering Protocols



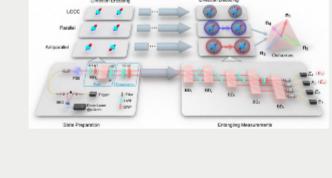




Scientists at the University of Science and Technology of China have

Researchers Use Photonic Systems to Improve Quantum

enhanced the performance of quantum orienteering with entangling measurements applied by way of photonic quantum walks. The researchers said that while there has been extensive research on entangling states, few studies of entangling measurements have been done, because entangling measurements are difficult to realize.



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Featured Products





Teledyne e2v (UK) Ltd. Teledyne e2v announces its new

Superior 36 Megapixel

Emerald 36M, a 37.7 Megapixel image sensor specifically designed for demanding industrial and outdoor applications requiring both high

resolution and high speed. It uniquely combines 6k square resolution and superior frame rate, providing low noise, high quantum efficiency, and wide angular response. Visit Website Request Info

Resolution



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through CW applications across the wavelength range of 355 nm to 2200 nm. Each design has a unique refractive index profile specifically tuned to give optimal performance for our customer's applications. Request Info Visit Website









Optogenetic Control of Protein Accelerates ALS Symptoms

in Zebrafish

sclerosis (ALS) symptoms in zebrafish by remotely controlling a disease-associated protein molecule with light. The researchers focused

A joint research group in Japan reproduced amyotrophic lateral

on the motor neurons of zebrafish because they share several

characteristics with human motor neurons. Whole cells can be visualized because of the transparent zebrafish body.

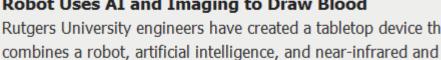


Robot Uses AI and Imaging to Draw Blood Rutgers University engineers have created a tabletop device that



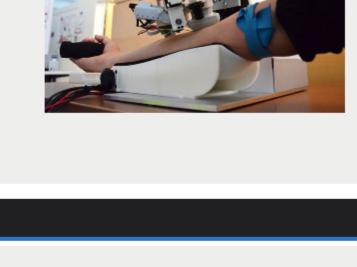






and drugs. The device can accurately steer needles and catheters into tiny blood vessels with minimal supervision.

ultrasound imaging to draw blood or insert catheters to deliver fluids



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SPIE Defense + Commercial Sensing 2020

announcements, networking events, and more. The technical exhibit will provide an opportunity to engage with suppliers who provide

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everything from components to the most advanced sensor systems. Free sessions on the exhibition floor will provide valuable information

and networking for anyone, from engineers to CEOs, who is looking for insight about the future of the industry and what is possible now. Course topics will cover lidar, deep learning, imaging and sensing, and more.

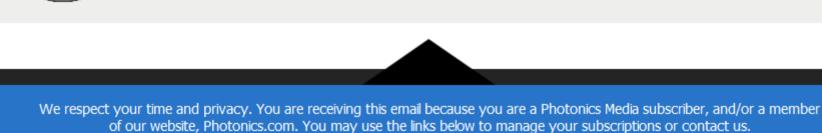
April 26-30, 2020 - Anaheim Convention Center - Anaheim, Calif.

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exhibiting companies, industry sessions, a job fair, product

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