

Superresolution For Low Cost Enabling Radar Technology



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Superresolution for Low-Cost Enabling Radar Technology ARL-TR-1780 October 1998 Canh Ly and Herbert Dropkin Approved for public release; distribution unlimited.

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Superresolution for Low-Cost Enabling Radar Technology ...

Here, we introduce cryogenic super-resolution optical fluctuation imaging (cryo-SOFI), a low-dose super-resolution imaging scheme based on the SOFI principle. As cryo-SOFI does not require special sample preparation, it is fully compatible with conventional cryo-EM specimens, and importantly, it does not affect the quality of cryo-EM imaging.

Cryo-SOFI enabling low-dose super-resolution correlative ...

Related: Tissue sampling method could enable low-cost super-resolution microscopy DNA-PAINT and Exchange-PAINT technology distinguishes molecules at super-high resolution and allows researchers to visualize a large number of species at the same time using low-cost reagents, says Peng Yin , a Core Faculty member at the Wyss Institute and an ...

Startup to provide access to low-cost super-resolution ...

Here, we demonstrate the inverse: the use of a complex, but mass-producible optical chip, which hosts the sample and provides a waveguide for the illumination source, and a standard low-cost ...

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Our low-cost SMLM setup can potentially serve as a routine laboratory microscope with high-performance super-resolution imaging capability. A simple and cost-effective setup for super-resolution ...

A simple and cost-effective setup for super-resolution ...

Recognizing the high expense of super-resolution microscopy for cell study, a team of researchers has discovered a method that enlarges tissue samples by embedding them in a polymer that swells when water is added. This allows specimens to be physically magnified, and then imaged at a much higher resolution.

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Video-rate computational super-resolution and integral ...

Key to the Wyss Institute's DNA-driven imaging super resolution technology is the interaction of two short strands of DNA, one called the "docking strand" that is attached to the molecular target to be visualized and the other, called the "imager strand", which carries a light-emitting dye.

Inexpensive Super-Resolution Microscopy - Wyss Institute

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Low-Cost and Real-Time Super-Resolution over a Video Encoder IP Gustavo M. Callicó, Antonio Núñez Rafael Peset Llopis¹, Ramanathan Sethuraman² Applied Microelectronics Research Institute ¹Philips Consumers Electronics Department of Elect. and Automatic Engineering ²Philips Research

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These usually employ a complex microscope for imaging and a simple glass slide to hold the sample, but the new technique uses a complex - although mass-producible - optical chip to both host the sample and provide a waveguide for the illumination source, while a standard low-cost microscope acquires the super-resolution images.

Photonic chip brings super-resolution potential to ...

PDF | This paper addresses a low-cost and real-time solution for the implementation of super-resolution (SR) algorithms over SOC (System-On-Chip) platforms in order to achieve high-quality image ...

Low-Cost and Real-Time Super-Resolution over a Video ...

low-cost enabling (SIMPLE) chip Erh-Chia Yeh,^{1,2} Chi-Cheng Fu,^{1,2} Lucy Hu,¹ Rohan Thakur,¹ Jeffrey Feng,¹ Luke P. Lee^{1,2,3,4*} Portable, low-cost, and quantitative nucleic acid detection is desirable for point-of-care diagnostics; however, current polymerase chain reaction testing often requires time-consuming multiple steps and costly equipment ...

Self-powered integrated microfluidic point-of-care low ...

1-D superresolution ISAR imaging algorithm. ... Superresolution for Low-Cost Enabling Radar Technology. ... and the assessment of superresolution methods with respect to their application in a ...

1-D superresolution ISAR imaging algorithm - ResearchGate

"The launch of Ultivue is a testament to the Wyss Institute's ability to launch bioinspired technologies out of the lab and into the commercial marketplace, in this instance by leveraging recent advances in DNA nanotechnology to create a low-cost alternative to super-resolution microscopy that could bring this invaluable new capability into ...

Harvard's Wyss Institute launches Ultivue to facilitate ...

Super-resolution imaging (SR) is a class of techniques that enhance the resolution of an imaging system. In some SR techniques—termed optical SR—the diffraction limit of systems is transcended, while in others—geometrical SR—the resolution of digital imaging sensors is enhanced.

Super-resolution imaging - Wikipedia

Superresolution Optics: Optical imaging resolves beyond the diffraction limit 04/01/2008 Several procedures enable super optical resolution by encoding the spatial-frequency information of an object under test and decoding it after the imaging system.

Superresolution Optics: Optical imaging resolves beyond ...

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A Practical Guide to Creating Superresolution Photos with ...

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