

### **optical superresolution pdf**

The requirement for optical super-resolution (OSR) imaging, beyond the diffraction limit, in many areas of biology, medicine and material research, has caused a great interest in recent years.

### **Optical Superresolution | Request PDF - ResearchGate**

Optical super-resolution imaging has gained momentum in investigations of heterogeneous and homogeneous chemical reactions at the single-molecule level.

### **Optical Super-Resolution Imaging of Surface Reactions**

The last chapter illustrates several industry-related examples and potential applications to real industrial electro-optical systems. This book is intended for graduate students or researchers in academia or industry, and anyone else looking to improve the performance of their electro-optical system design.

### **Optical Superresolution | David Mendlovic | Springer**

focal distance of the AEDOF and superresolution optical elements is 35.5mm with an aperture size of 5mm. This yields an f-number of  $f/7.1$ . As discussed in Section 3, our non-blind image reconstruction method requires us to calibrate the PSF in advance. Accordingly, we

### **End-to-end Optimization of Optics and Image Processing for**

optical microscope focused at different heights  $h$  above the quasi-periodic nanohole array when it is illuminated with a thermal white light source.

### **Optical super-resolution through super-oscillations**

The goal of super-resolution optical ow i s t o t a k e a conventional video sequence and compute both optical ow and a higher resolution version of the video simultaneously.

### **(PDF) Super-Resolution Optical Flow - ResearchGate**

Superresolution optical magnetic imaging and spectroscopy using individual electronic spins in diamond  
Jean-Christophe Jaskula 1,2,3,\* , Erik Bauch 1,3,\* , Silvia Arroyo-Camejo 4 , Mikhail D. Lukin 1 ,

### **Superresolution optical magnetic imaging and spectroscopy**

The effect of optical superresolution on speckle correlations is studied. Simulations reveal that using a lateral superresolution pupil filter more than twice the out of plane correlation length of the clear pupil can be achieved. This means that the measurement range in speckle correlation measurements doubles. To verify the correlation length an experiment is performed using a liquid crystal ...

### **Superspeckles: a new application of optical superresolution**

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

### **Super-resolution imaging - Wikipedia**

Recent developments in superresolution, an area of optical physics and engineering with claims of transcending the stated resolution limits of optical instruments, are reviewed and their possible relevance to visual spatial processing and to the exploration of the eye's structure are assessed.

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