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# Super Resolution Imaging

**super resolution imaging - translation microscopy (tram)** - super resolution imaging - translation microscopy (tram) problem this technology solves: a method of using multiple low resolution images to restore multi- **image super-resolution: historical overview and future ...** - image super-resolution: historical overview and future challenges 5 age pixel density. therefore, the hardware limitation on the size of the sensor **microsphere super-resolution imaging - arxiv** - the literature, including structured illumination, maxwell fisheyes, scattering lens and time-reversal imaging. more details on them can be found in an interesting **new applications of super-resolution in medical imaging** - new applications of super-resolution in medical imaging. 3 age processing artifacts are much less tolerable in medical images than in photographic applications. **super-resolution microscopy: from single molecules to ...** - fluorophores can be advantageous in super-resolution imaging because the same fluorophore can be imaged multiple times, but irreversible probes are required for single-molecule counting to avoid imaging the same fluorophore a stochastic number of times [28]. in general, the desired properties of fluorescent probes for srm are high contrast ratios, large fluorescent quantum yields and ... **super resolution imaging through the human skull - arxiv** - 2 maximum resolution of 20  $\mu\text{m}$  laterally and lin et al ([17], [12]) produced super resolved images of tumor angiogenesis with vessel sizes ranging from 5 to 150  $\mu\text{m}$ . **live cell super-resolution imaging - bruker** - outline •super-resolution microscopy •principle of single molecule localization (sml) •factors crucial for successful live cell sml imaging **super-resolution imaging and tracking of protein-protein ...** - super-resolution imaging and tracking of protein-protein interactions in sub-diffraction cellular space the harvard community has made this article openly available. **super-resolution imaging through a planar silver layer** - super-resolution imaging through a planar silver layer david o. s. melville and richard j. blaikie macdiarmid institute for advanced materials and nanotechnology, department of electrical and computer **introduction to image super-resolution** - multi-frame super-resolution • how can we obtain a hr image from multiple lr images? - basic premise is the availability of multiple lr image captured from the same scene. **image super-resolution via sparse representation** - tial in medical imaging and satellite imaging where diagnosis or analysis from low-quality images can be extremely difficult. conventional approaches to generating a super-resolution im-age normally require as input multiple low-resolution images of the same scene, which are aligned with sub-pixel accuracy. the sr task is cast as the inverse problem of recovering the original high-resolution ... **introduction to super-resolution microscopy** - introduction to super-resolution microscopy masahito yamanaka<sup>1,2</sup>, nicholas i. smith<sup>1,2</sup>, ... the imaging property of each super-resolution tech-nique is also compared with the corresponding conventional one. typical applications of the super-resolution techniques in biological research are also introduced. key words: super-resolution microscopy, sted, palm, storm, sim, sax introduction optical ... **single image super resolution - ijert** - keywords super-resolution imaging, resolution enhancement , regularization, robust estimation, super resolution, total variation (tv). i. introduction super resolution is the process of combining a sequence of low-resolution (lr) noisy blurred images to produce a higher resolution image or sequence. the multiframe super-resolution problem was first addressed in [1], where they proposed a fre ... **review of super-resolution fluorescence microscopy for biology** - review of super-resolution fluorescence microscopy for biology several methodologies have been developed over the past several years for super-resolution fluorescence microscopy including saturated structured-illumination microscopy (ssim), stimulated emission depletion microscopy (sted), photoactivated localization microscopy (palm), fluorescence photoactivation localization microscopy ...

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