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Abstract Digital holography is an emerging field of new paradigm in general imaging applications. We present a review of a subset of the research and development activities in digital holography, with emphasis on microscopy techniques and applications.

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Principles and techniques of digital
holographic microscopy Myung K. Kim
University of South Florida, Department of
Physics, 4202 E. Fowler Avenue, Tampa,

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development activities in digital holography, with emphasis on the microscopy techniques and applications.

Principles and techniques of digital holographic microscopy

In this article, we review digital holographic techniques and recent multidimensional digital holographic imaging and various light-waves sensing applications.

Digital holography. DH [10–16] is an interferometric imaging technique. DH requires two waves to generate a hologram and to obtain amplitude as well as quantitative

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phase images ...

Digital holography and its multidimensional imaging ...

Digital holographic microscopy distinguishes itself from other microscopy methods by not recording the projected image of the object. Instead, the light wave front information originating from the object is digitally recorded as a hologram , from which a computer calculates the object image by using a numerical reconstruction algorithm .

Principles and techniques of digital

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Microscopy is the technical field of using microscopes to view objects and areas of objects that cannot be seen with the naked eye (objects that are not within the resolution range of the normal eye). There are three well-known branches of microscopy: optical, electron, and scanning probe microscopy, along with the emerging field of X-ray microscopy. ...

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holography, with emphasis on microscopy
techniques and applications. First, the basic
results from the general theory of

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holography, based on the scalar diffraction theory, are summarized, and a general description of the digital holographic microscopy process is given, including quantitative phase microscopy.

Digital Holographic Microscopy: Principles, Techniques ...

Digital holography is an emerging field of new paradigm in general imaging applications. We present a review of a subset of the research and development activities in digital holography, with emphasis on microscopy techniques and applications.

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First, the basic results from the general theory of holography, based on the scalar diffraction theory, are summarized, and a general description of the ...

Design and calibration of a digital Fourier holographic ...

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transparent media with digital holography,"
Chinese Opt. Lett. 9, 120001:1-4 (2011)
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Many of these examples will be taken from the
2010 review article from Vincente Micó et al.
titled "Basic principles and applications of
digital holographic microscopy," therefore we
highly recommend you to reference this
article for a more detailed analysis of the
topics covered in this blog post.

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Principles and techniques of digital
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Goniometry and optical scatter imaging have been used for optical determination of particle size based upon optical scattering. Polystyrene microspheres in suspension serve as a standard for system validation purposes. The design and calibration of a digital Fourier holographic microscope (DFHM) are reported. Of crucial importance is the appropriate scaling of scattering angle space in the ...

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