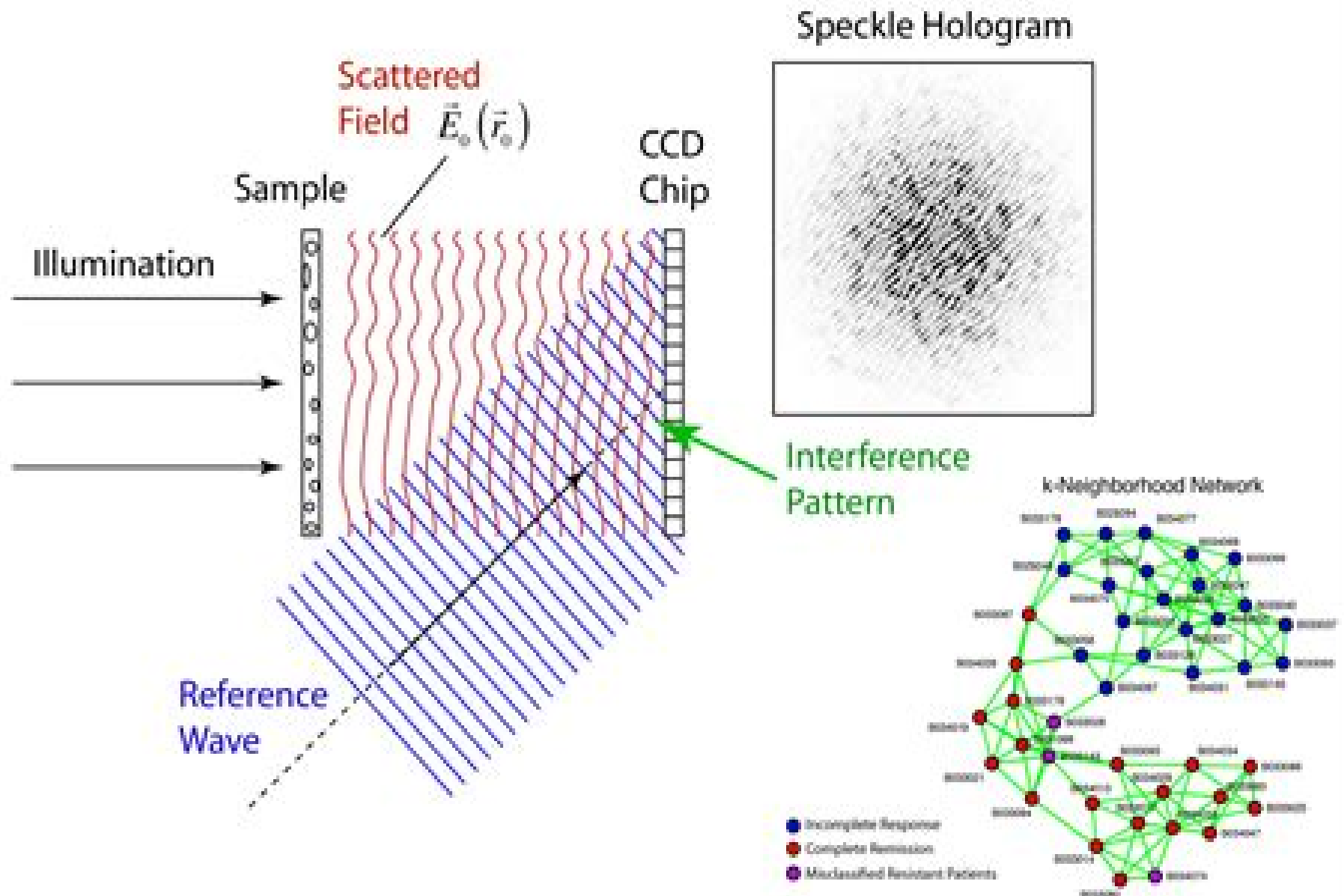


# Digital Holography for Cancer Research



# Methods Of Digital Holography

**Ming-Tzer Lin, Cosme Furlong, Chi-Hung  
Hwang**



## Methods Of Digital Holography:

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Synthesis of holograms Wavefront analysis and simulation Hardware and software **Digital Holography** Ulf Schnars, Werner Jüptner, 2005 This highly practical and self contained guidebook explains the principles and major applications of digital hologram recording and numerical reconstruction Digital Holography A special chapter is designated to digital holographic interferometry with applications in deformation and shape measurement and refractive index determination Applications in imaging and microscopy are also described Special techniques such as digital light in flight holography holographic endoscopy information encrypting comparative holography and related techniques of speckle metrology are also treated *Methods of Digital Holography*, 1980 **New Techniques in Digital Holography** Pascal Picart, 2015-02-23 A state of the art presentation of important advances in the field of digital holography detailing advances related to fundamentals of digital holography in line holography applied to fluid mechanics digital color holography digital holographic microscopy infrared holography special techniques in full field vibrometry and inverse problems in digital holography *New Techniques in Digital Holography* Pascal Picart, 2015-03-16 A state of the art presentation of important advances in the field of digital holography detailing advances related to fundamentals of digital holography in line holography applied to fluid mechanics digital color holography digital holographic microscopy infrared holography special techniques in full field vibrometry and inverse problems in digital holography *Digital Holographic Microscopy* Myung K. Kim, 2011-08-09 Digital holography is an emerging field of new paradigm in general imaging applications The book presents an introduction to the theoretical and numerical principles and reviews the research and development activities in digital holography with emphasis on the microscopy techniques and applications Topics covered include the general theory of diffraction and holography formations and practical instrumentation and experimentation of digital holography Various numerical techniques are described that give rise to the unique and versatile capabilities of digital holography Representative special techniques and applications of digital holography are discussed The book is intended for researchers interested in developing new techniques and exploring new applications of digital holography *Digital Holography and Digital Image Processing* Leonid Yaroslavsky, 2003-11-30 Digital holography and digital image processing are twins born by computer era They share origin theoretical base methods and algorithms The present book describes these common fundamentals principles methods and algorithms including image and hologram digitization data compression digital transforms and efficient computational algorithms statistical and Monte Carlo methods image restoration and enhancement image reconstruction in tomography and digital holography discrete signal resampling and image geometrical transformations accurate measurements and reliable target localization in images recording and reconstruction of computer generated holograms adaptive and nonlinear filters for sensor signal perfecting and image restoration and enhancement The

book combines theory heavily illustrated practical methods and efficient computational algorithms and is written for senior level undergraduate and graduate students researchers and engineers in optics photonics opto electronics and electronic engineering

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diffractive beams It first provides an overview of digital holographic microscopy DHM and holographic optical tweezers as well as non diffracting beam types for minimal invasive real time and marker free imaging as well as manipulation of micro and nano objects It then investigates the design concepts for the optical layout of holographic optical tweezers HOTs and their optimization using optical simulations and experimental methods In a further part the book characterizes the corresponding system modules that allow the addition of HOTs to commercial microscopes with regard to stability and diffraction efficiency Further based on experiments and microfluidic applications it demonstrates the functionality of the combined setup and discusses several types of non diffracting beams and their application in optical manipulation The book shows that holographic optical tweezers including several non diffracting beam types like Mathieu beams combined parabolic and Airy beams not only open up the possibility of generating efficient multiple dynamic traps for micro and nano particles with forces in the pico and nano newton range but also the opportunity to exert optical torque with special beams like Bessel beams which can facilitate the movement and rotation of particles by generating microfluidic flows The last part discusses the potential use of a slightly modified DHM HOT system to explore the functionality of direct laser writing based on a two photon absorption process in a negative photoresist with a continuous wave laser

*Digital Holography: Techniques and Applications* Liangcai Cao,Zeev Zalevsky,Jianglei Di,Peng Gao,2022-11-16

Advancement of Optical Methods & Digital Image Correlation in Experimental Mechanics, Volume 3 Luciano Lamberti,Ming-Tzer Lin,Cosme Furlong,Cesar Sciammarella,2025-08-07 Advancement of Optical Methods DIC Applications for Challenging Environments Optical Methods in SEM History Mechanical Characterization of Materials Bioengineering

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Anand Asundi, 2011-07-05 Approaching the topic of digital holography from the practical perspective of industrial inspection Digital Holography for MEMS and Microsystem Metrology describes the process of digital holography and its growing applications for MEMS characterization residual stress measurement design and evaluation and device testing and inspection Asundi also provides a thorough theoretical grounding that enables the reader to understand basic concepts and thus identify areas where this technique can be adopted This combination of both practical and theoretical approach will ensure the book's relevance and appeal to both researchers and engineers keen to evaluate the potential of digital holography for integration into their existing machines and processes Addresses particle characterization where digital holography has proven capability for dynamic measurement of particles in 3D for sizing and shape characterization with applications in microfluidics as well as crystallization and aerosol detection studies Discusses digital reflection holography digital transmission holography digital in line holography and digital holographic tomography and applications Covers other applications including micro optical and diffractive optical systems and the testing of these components and bio imaging

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