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Image Correlation for Shape, Motion and Deformation Measurements

Basic Concepts, Theory and Applications

**Image Correlation For Shape Motion And Deformation
Measurements Basic Concepts theory And Applications
Author Michael A Sutton Nov 201**

**Michael A. Sutton, Jean Jose
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Image Correlation for Shape, Motion and Deformation Measurements Michael A. Sutton, Jean Jose Orteu, Hubert Schreier, 2009-04-21 Image Correlation for Shape Motion and Deformation Measurements provides a comprehensive overview of data extraction through image analysis Readers will find and in depth look into various single and multi camera models 2D DIC and 3D DIC two and three dimensional computer vision and volumetric digital image correlation VDIC Fundamentals of accurate image matching are described along with presentations of both new methods for quantitative error estimates in correlation based motion measurements and the effect of out of plane motion on 2D measurements Thorough appendices offer descriptions of continuum mechanics formulations methods for local surface strain estimation and non linear optimization as well as terminology in statistics and probability With equal treatment of computer vision fundamentals and techniques for practical applications this volume is both a reference for academic and industry based researchers and engineers as well as a valuable companion text for appropriate vision based educational offerings **International Digital Imaging Correlation Society** Michael Sutton, Phillip L. Reu, 2025-08-07 This collection represents a single volume of technical papers presented at the Annual International DIC Society Conference and SEM Fall Conference organized by the Society for Experimental Mechanics and Sandia National Laboratories and held in Philadelphia PA November 7 10 2016 The volume presents early findings from experimental standards development and various other investigations concerning digital image correlation an important area within Experimental Mechanics The area of Digital Image Correlation has been an integral track within the SEM Annual Conference spearheaded by Professor Michael Sutton from the University of South Carolina In 2016 the SEM and Sandia joined their collaborative strengths to launch a standing fall meeting focusing specifically on developments in the area of Digital Image Correlation The contributed papers within this volume span numerous technical aspects of DIC including standards development for the industry *Digital Image Correlation for Microscale and Nanoscale Deformation Measurements* Jay K. Patel, 2005 *Application of Digital Image Correlation Method to High Temperature Deformation Measurement* T. Arai, M. Obata, K. Nishimura, H. Shimada, 1989 *Displacement and Deformation Measurement Using Digital Image Correlation Techniques* Rajesh Parthasarathy, 1994

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