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Michael A Sutton Nov
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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).

Image Correlation for Shape, Motion and Deformation ...

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Image Correlation for Shape, Motion and Deformation ...

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two-dimensional, three-dimensional and
volumetric image correlation methods in
the fields of non-contacting
measurements and experimental
mechanics, the level of expertise is
envisioned as an advanced supplement
for an upper-level undergraduate

Image Correlation for Shape, Motion and Deformation ...

As used in this article, the term "digital
image correlation" refers to the class of
non-contacting methods that acquire
images of an object, store images in
digital form and perform image analysis
to extract full-field shape, deformation
and/or motion measurements.

Image Correlation for Shape, Motion and Deformation ...

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Stereo-digital image correlation (DIC) is a wide-spread technique in the field of experimental mechanics for measuring shape, motion, and deformation and it is frequently used for material...

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Image Correlation for Shape, Motion and Deformation ...

Digital Image Correlation (often referred to as "DIC") is an easy to use optical method which measures deformation on an object's surface. The method tracks the changes in gray value pattern in small neighborhoods called subsets (indicated in red in the figure below) during deformation.

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Correlated Solutions - Digital Image Correlation

Digital image correlation (DIC) is a surface displacement measurement technique that can capture the shape, motion, and deformation of solid objects. Rudimentary DIC results are easy to obtain, but reliable, high-quality DIC results can be difficult to achieve.

Digital Image Correlation

Digital image correlation and tracking is an optical method that employs tracking and image registration techniques for accurate 2D and 3D measurements of changes in images.

Digital image correlation and tracking - Wikipedia

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With equal treatment of computer vision
fundamentals and techniques for
practical applications, "Image
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excellent reference for academic and
industry-based researchers and
engineers, as well as a valuable
companion text for appropriate vision-
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