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Readers will find an in-depth look into
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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).

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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. This method is often used to measure full-field displacement and strains, and it is widely applied in many areas of science and engineering, with new applications being found all the time.

Image Correlation For Shape Motion

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Digital Image Correlation

Nevertheless, optical techniques such as Digital Image Correlation (DIC) are able to provide quantitative information of the motion with higher sensitivity than naked eye. For vibration analysis, mode shapes characterisation is one of the most interesting DIC performances.

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With equal treatment of computer vision fundamentals and techniques for practical applications, "Image Correlation for Shape, Motion and Deformation Measurements" is an excellent reference for academic and industry-based researchers and engineers, as well as a valuable companion text for appropriate vision-based educational offerings.

High frequency mode shapes characterisation using Digital ...

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.

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