Mechanically assisted Digital Image Correlation (DIC) for the analysis of non-linear and failure behavior of materials

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During the last decade full-field measurement techniques have become more and more popular. Among the reasons for this success is the great technological improvement of digital imaging devices. Digital Image Correlation (DIC) is one of the most popular full-field measurement techniques. It is quite easy to set up and it is extremely versatile. Some recent advances based on the intimate coupling of DIC with numerical simulation tools will be presented. The scope of application of these developments are the identification of non-linear constitutive laws and the analysis of failure of solids based on optical images but also in 3D using X-ray tomography images.

Lieu: Pavillon Adrien-Pouliot, Université Laval, local PLT-1920
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