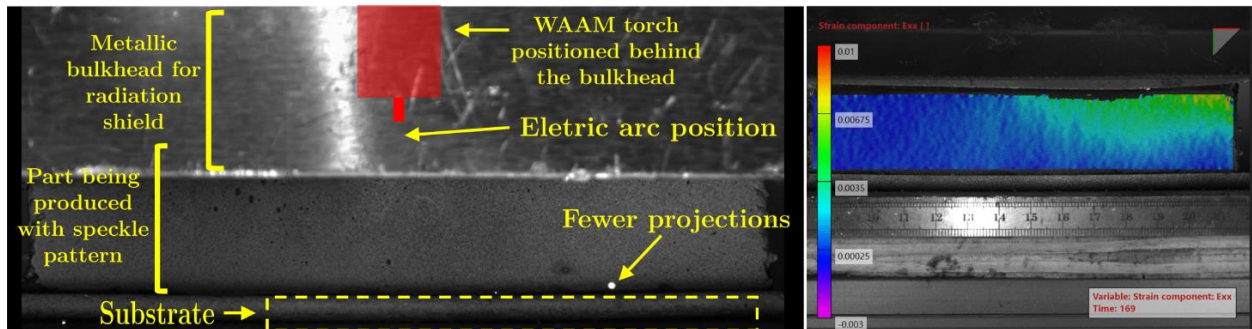


International Conference on Structural Integrity (ICSI202)
30 August – 2 September, 2021. Funchal, Madeira, Portugal

In Situ Full-Field Deformation Measurements on Advanced Manufacturing Processes



The International Symposium on *In Situ Full-Field Deformation Measurements on Advanced Manufacturing Processes* will be held in the 4th International Conference of Structural Integrity (ICSI21), which will take place on Madeira Island, Portugal, on 30 August – 2 September 2021.

The Symposium provides the research opportunity to survey recent developments on the topic of in situ monitoring by full-field optical techniques during advanced manufacturing processes as additive manufacturing variants.

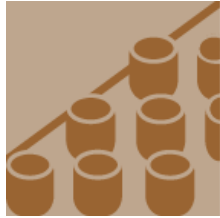
In the Digital Era novel technologies has been germinating. This symposium aims at highlighting research synergies among three major technologies: full-field optical techniques, additive manufacturing, and advanced materials.

In the discipline of photomechanics, full-field optical techniques have been developing, including digital image correlation. The data provided by these techniques is full-field and contact free. The access of deformation measurements across a whole region of interest have been gradually opening new research interests and perspectives in the branch of experimental and computational mechanics.

This Era has been witnessing the advance of technologies in the digitalisation of industry. Among them there is additive manufacturing. This process has already achieved a high impact into industry and modern society. A consistent evolution of this novel manufacturing tool is the synthesis of materials and parts with specific-oriented structure and functionality. This approach claims an unprecedented potential in which materials can evolve into the bio-inspired paradigm of heterogeneity and gradient mechanical properties.

The Symposium will be sponsored by the **Materials** journal (ISSN 1996-1944; CODEN: MATEG9) which is a peer-reviewed, open access journal of materials science and engineering published online by MDPI. Papers submitted to this Symposium can be proposed to be published in the Special Issue [In Situ Full-Field Deformation Measurements on Advanced Manufacturing Processes](#). This special issue belongs to the section *Manufacturing Processes and Systems*. All articles published in Materials are published in full open

access. In order to provide free access to readers, and to cover the costs of peer review, copyediting, typesetting, long-term archiving, and journal management, an article processing charge (APC) of 2000 CHF (Swiss Francs) applies to papers accepted after peer review. A discount of 20% has been agreed with the journal regarding selected papers presented to this Symposium. Moreover, a best paper award corresponding to 50% discount voucher will be sponsored.



materials

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