

ESIAM21

VIENNA AUSTRIA
8 - 9 - 10 SEPT. 2021

Second European Conference on Structural Integrity
of Additively Manufactured Materials

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Aim

Structural integrity, i.e. the fracture and fatigue strength of additively manufactured materials and components is becoming increasingly important with the technology's transition towards major industrial utilization. The conference will provide an overview over current scientific knowledge and stimulate ideas for future research directions in this emerging field. Peer-reviewed contributions will be in the form of a 15-minute presentation or a poster. The agenda will allow for extended discussions and for exploring Vienna at the end of summer. ESIAM21 is the second event of the ESIAM series following the success of the first event in Trondheim 2019.

Background

Additive manufacturing (AM) techniques offer the potential to economically fabricate customized parts with complex geometries in a rapid design-to-manufacture cycle. Before benefits can be explored in critical load bearing applications, the basic understanding of the mechanical and functional behavior of these materials must be substantially improved at all scales. In particular, a better understanding of fracture and fatigue performance is key. The conference will shed light on the basic physical phenomena of fatigue and fracture of AM materials and develop effective criteria for the design of unprecedented high performing components for next generation automotive, aerospace and biomedical applications.

Conference Papers

Peer reviewed publications from conference contributions and discussions will appear in the proceeding of the conference. Extended versions of selected papers will be invited for Special Issues in ESIS affiliated journals.

DEADLINES

Abstracts
1 November 2020

Conference Papers
1 April 2021

Registration
1 April 2021



Organized by ESIS TC 15
Structural Integrity of Additively
Manufactured Components
(In-TEAM TC 15)
www.structuralintegrity.eu

Sponsorship Companies interested in presenting their products, processes and achievements relating to the subject are welcome to support this event.

Please contact by e-mail: info@esiam.eu

Conference Venue Vienna University of Technology, Gusshausstrasse 27, 1040 Vienna, Austria

