

KIT-UNIUD JoinTECH-Online

Student Exchange Program Information Session
& Special Lecture on the Joint Research Project

SPEAKER

Prof. Alex Lanzutti

University of Udine ウーディネ大学



THEME

The use of AM in metal-based aerospace components

金属ベースの航空宇宙部品におけるAMの利用

DATE/TIME

FEB. 7, 2025

16:25-18:45 JST

08:25-10:45 CET

VENUE

ZOOM Online



<https://us02web.zoom.us/j/81528182431?pwd=DAtGKrme8S150KwBbbiUc2cZuxj4IN.1>

The use of metal components is crucial for aerospace structures. In fact, the most demanding components of an aircraft or rocket in terms of mechanical properties are made of metal. Typically, alloys based on Al, Ti, Fe, Ni, Cu are used for many components such as: engine, landing gear, chassis, etc.

The AM processes are emerging as possible candidates to reduce the weight of structural components through an accurate design of the structure, adding material only where it is needed. The presentation will focus on the cost/benefit analysis of the use of AM processes in aerospace applications by presenting the commonly used techniques and their limitations. An overview of the most common alloys used in aerospace applications in terms of microstructural and mechanical performance will be given.

ORGANIZER



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