



ICAM26

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International Conference on Advanced Manufacturing

Research to Application through
Standardization

Value Chain: Non- Destructive Evaluation and Inspection



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While destructive evaluation methods such as mechanical testing and microstructural characterizations are often used to evaluate the mechanical performance of additively manufactured (AM) materials and parts, non-destructive evaluation (NDE) methods can provide significant insights without the need for sectioning and damaging the part. Since the presence of defects (e.g., pores, lack of fusion, surface roughness, etc.) often influences the mechanical performance of AM parts significantly, understanding the critical characteristics (such as type, size, and distribution) and location of these defects is key to managing performance expectations, and qualification and serviceability. NDE methods can also be leveraged for the quantification of material properties.

Topics of interest include but are not limited to:

- Applications of current NDE methods for AM parts
- Novel or improved NDE inspection capabilities
- Current status of standards and guidelines and needs for new standards
- Ultrasonic/resonance/x-ray/CT-scan as inspection methods for defects
- Enabling targeted inspection and identification of defect formation root cause
- Integration of NDE with in-process monitoring (indirect inspection) & in-process inspection (direct inspection), structural modeling, validation, and qualification
- Techniques for evaluation and analysis of NDE results and measuring NDE process capability (POD or alternative)
- NDE modeling and simulation for AM
- Applications of NDE methods in serial production of AM parts: state of the art, limitations, capabilities, and future needs
- Novel materials and non-metal AM NDE
- Process control strategies for AM inspection methods