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## **Redefining Manufacturing with NextGen-AM: The Power of Innovative Technologies**

### **Content**

Additive manufacturing has made significant progress in recent years, particularly with the advent of next-generation technologies. This lecture explores cutting-edge innovations that are reshaping the Additive Manufacturing landscape and propelling it into a new frontier. The focus is on innovative AM processes, including the state-of-the-art of processing of metallic materials such as Ti-, Al-, Fe-, Cu-, and Ni-based alloys. Additionally, we examine the impact of these innovations on industries like aviation, medical, and automotive, through case studies, practical examples, and success stories. Looking towards the future, we discuss emerging trends and developments in additive manufacturing, highlighting how these innovative processes are revolutionizing the industry and paving the way for an exciting industrial transformation.

### **Speaker Country**

Germany

**Primary author:** ZHONG, Chongliang (Fraunhofer IFAM)

**Presenter:** ZHONG, Chongliang (Fraunhofer IFAM)

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