

# ASTM INTERNATIONAL CONFERENCE ON ADDITIVE MANUFACTURING

## Research To Application Through Standardization

October 31 – November 4, 2022 | Orlando, FL  
JW Marriott Orlando Bonnet Creek Resort & Spa

Submit an Abstract at [www.amcoe.org/icam2022](http://www.amcoe.org/icam2022)

## Industry 4.0: Cyber Security of Additive Manufacturing (AM)

Advancing towards the vision of Industry 4.0, information sharing via an internal distributed manufacturing framework within an organization and over the global internet becomes increasingly utilized with additive manufacturing (AM). AM is a direct digital manufacturing method. As AM equipment becomes more interconnected with other components of Industry 4.0, it risks exposure to a variety of cyber- and cyber-physical attacks. Therefore, the security of AM should be addressed holistically. This includes, but is not limited to, identifying cyber-security threats in AM and determining how they can be resolved. Through this, we can ensure and support the advancement of manufacturing to a whole new level. This symposium specifically explores the security aspects of AM in an Industry 4.0 environment.

### Topics of interest include but are not limited to:

- Connectivity and security of AM network
- Mitigation methods and solutions to enhance security for AM
- How cyber-security requirements in advanced manufacturing affect AM
- Standards and needs for AM security



### Symposium Organizers

- Nikhil Gupta, NYU, USA
- Mark Yampolskiy, Auburn University, USA
- Chris Adkins, Identify3D, USA



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ADDITIVE MANUFACTURING