ICAM25

ASTM INTERNATIONAL

International Conference on Advanced Manufacturing

Research to Application through Standardization

October 6-10 | Las Vegas, NV

Industry 4.0: Robotics and Automation

Advanced Manufacturing (AM) technologies have revolutionized CAD/CAM over the past few decades, enabling faster prototyping and optimized part geometries. These advancements drive innovation and accelerate time to market. Integrating robotics and automation with AM unlocks new production capabilities, allowing for greater scalability. The key challenge now is expanding these technologies to full-scale production—enhancing efficiency, improving quality and consistency, lowering labor costs, and increasing workplace safety.

This symposium brings together industry leaders in robotics, automation, and advanced manufacturing to explore these challenges, highlight new capabilities, and develop strategies for the next phase of industrial transformation.

TOPICS OF INTEREST INCLUDE BUT ARE NOT LIMITED TO:
– Robotics-driven advancements in AM processes (e.g., machine tending)
– Robotics applications in upstream/downstream manufacturing (e.g., material handling, post-print finishing, support removal)
– Automated testing and inspection in AM
– Robotics safety considerations
– Comparing prototyping, batch production, and mass production
– Hybrid manufacturing approaches
– Case studies, challenges, and best practices in robotics and automation for AM, including:
  • Material Handling
  • Assembly
  • Welding
  • Painting & Coating
  • Packaging
  • Palletizing

Symposium Organizers

– **Eugene Demaitre**, The Robot Report, USA
– **Michael Haas**, FerRobotics, USA
– **Azadeh Haghighi,** University of Illinois-Chicago, USA
– **Kenny Kimble**, NIST, USA

Submit an abstract

amcoe.org/icam2025