ICEM2024 –TORINO, Italy, September 1-4, 2024

Special Session on

Advanced Manufacturability of Electrical Machines Enabled by 3D Printing Technology

Organized and co-chaired by:
Dr. Ahmed Selema*, Prof. Peter Sergeant
Department of Electromechanical, Systems, and Metal Engineering,
Ghent University, Ghent, Belgium
* Correspondence: ahmed.selema@ugent.be

Abstract:

This special session aims to explore the advancements and challenges in the manufacturability of electrical machines through the integration of 3D printing technology. The utilization of additive manufacturing (AM) technology in electrical machines has revolutionized the traditional manufacturing process, offering new design freedoms, enhanced material options, and the potential for complex geometries. This session seeks to bring together researchers and practitioners to share their latest findings, theoretical advancements, and practical insights in the realm of 3D printing technology applied to electrical machine design and manufacturing.

Call for Papers

We invite researchers and industry experts to contribute original research papers and case studies that explore the intersection of 3D printing technology and electrical machine design. The topics of interest include, but are not limited to:

- Novel design approaches facilitated by additive manufacturing technology
- Materials advancements and applications in 3D printed electrical machines
- Structural integrity and performance analysis of 3D printed electrical machines
- Thermal management strategies for 3D printed electrical machines
- Integration of AM technology in electrical machine prototyping and manufacturing processes
- Case studies and practical applications of 3D printing in electrical machine production
- Challenges and future directions in the adoption of 3D printing for electrical machine manufacturing

Important Dates:

- Full Paper Submission: Feb 1, 2024
- Full Paper Notification: May 1, 2024
- Final Paper Upload: June 1, 2024

Submission Instructions: All the instructions for paper submission are included in the conference website: http://www.icem.cc/2024