



Special Session

Special Session Title

Advances in Machining Technology

Abstract

Despite the recent growth of additive manufacturing, machining or material removal operations remains an indispensable technology within the manufacturing process chain across a wide spectrum of industries. Research and development for continuous improvement of subtractive manufacturing processes is vital to keep pace with increasing product design complexity and advancements in materials performance. This session will provide a platform for manufacturing researchers and industrialists to present, discuss and reflect on some of the latest innovations as well as emerging areas pertaining to machining process technology. Opportunities for networking and fostering collaboration to address common manufacturing challenges are encouraged.

Contributions in the following areas (but not limited to) are particularly welcome:

- Machinability of advanced workpiece materials
- Hybrid and innovative machining process development
- Robotic machining
- Cooling and lubrication in metal cutting
- Modelling and simulation of machining processes
- Machine tool dynamics and cutting tool design
- Machining process and tool condition monitoring