EUROMAT 2017 / Symposia Structure / Area C

C.9

Title: Manufacturing Processes

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Summary

Challenges in manufacturing are continuously growing due to the trend of parts miniaturization and increased geometry complexity, the emergence of new materials and the demand for specific surface texture and properties in the final products. Especially, new materials are very demanding in terms of manufacturing, given their high strength and low machinability.

The symposium aims to exchange current and future trends of manufacturing processes, with a view to advancing state-of-the-art and encouraging innovation for developing new and efficient processes. It focuses on both the scientific and industrial application, trying to bridge the gap between academia and industry.

The topics covered by the symposium may include, but are not limited to:

- Machinability of materials
- Tool materials and design
- Material removal processes
- Material forming processes
- EDM/ECM processes
- Meso/micro/nano manufacturing
- Material models in manufacturing processes
- Tribology and wear