

International Journal of

Additive and Subtractive Materials Manufacturing

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Scope of the Journal

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IJASMM fosters works on the fundamentals of science/engineering of additive and subtractive manufacturing processes/techniques and aspects such as heat transfer, mass transfer, fluid flow, microstructure and phase evolution and development of physical/mechanical/chemical/functional properties. Experimental and computational approaches at levels from nano-, micro-, meso-scale manufacturing for a range of processing techniques (photonic/mechanical/chemical/hybrid) and materials (metals/ceramics/organic/polymers/composites/ biomaterials) are of interest. The principles and applications of designing/fabrication of parts for real-world problems/applications are also considered.

Topics covered include:

- Conventional/traditional, hybrid, novel, and advanced additive and subtractive manufacturing processes/techniques at multiple scales (nano, micro and meso)
- Design and modelling/simulation of manufacturing processes/techniques
- Design and modelling/simulation of physical processes at multiple scales
- Novel/advanced, multiple/hybrid, composite and monolithic materials (metallic, ceramic, polymer and biomaterials)
- Characterisation/performance of materials for microstructures, physical (mechanical, electrical, and chemical) and [multi]functional (biological, optical, surface) properties
- Applications of additive and subtractive manufacturing processes/techniques
- Process optimisation, quality, control, automation, artificial intelligence
- Solution methodologies in integrated design/manufacturing
- Instrumentation and measurement
- Thermodynamics, heat and mass transfer, fluid dynamics
- Precision engineering, inspection, measurement, metrology and computer-integrated manufacturing systems



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