ADDITIVE MANUFACTURING

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DESCRIPTION

Additive Manufacturing is the peer-reviewed journal that provides academia and world-leading industry with high quality research papers and reviews in additive manufacturing. The journal aims to acknowledge the innovative nature of additive manufacturing and its broad applications to outline the current and future developments in the field.

Additive manufacturing technologies are positioned to provide a disruptive transformation in how products are designed and manufactured. From this, there was a need to create a fast-publication journal which provides a unique publication outlet for engineers, materials scientists and practitioners in academia and virtually any industry as these technologies are incorporated in new product and medical implant design and manufacturing.

The journal covers a wide scope, comprising new technologies, processes, methods, materials, systems, and applications in the field of additive manufacturing. Topics of particular interest include, but are not limited to:

Design and Modeling
- Multiple material components and devices
- Heterogeneous Design
- Modeling from concept to manufacture to implementation to disposal - the entire product life cycle

Additive manufacturing processes and process enhancements
- Advancements in additive manufacturing processes
- Multi-technology (hybrid) systems
- Enhanced closed-loop control of additive manufacturing systems

Multiple and novel materials
- Characterization and performance - mechanical, electrical, chemical, biological, opticals
- New material formulations and composite materials
- Processing of materials in additive manufacturing and for use in additive manufacturing

Special applications with multi-functionality
- Medical additive manufacturing and bio-printing
- Optimized configurations such as topology optimization
- Additive manufacturing for space and in-space additive manufacturing
- Improved energy utilization in and using additive manufacturing
Nano-additive manufacturing
Electromechanical and robotic systems
3D electronics, electromagnetics, and metamaterials
Other novel applications of additive manufacturing

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