International Journal of

Rapid Manufacturing

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Scope of the Journal

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Organisations now succeed or fail based upon their ability to respond quickly to changing customer demands and to utilise innovative technologies. In this environment, the advantage goes to the firm offering greater varieties of new products with higher performance and greater overall appeal. As a direct result, industry is required to apply new engineering philosophies such as Rapid Response to Manufacturing (RRM). IJRapidM addresses the advancement of RRM, especially engineering design and rapid manufacturing in an integrated form.

Topics covered include:

- Advanced methods in design, prototyping, manufacturing
- New engineering paradigms/philosophies for advanced engineering design
- Solution methodologies in integrated design/manufacturing
- Principles, applications, implementation strategies/technologies
- Product lifecycle development/analysis for ease of manufacture/assembly
- Geometric modelling/dimensioning/ tolerancing, feature-based/parametric design
- Process optimisation, quality, control
- Impact of rapid manufacturing on the design process
- Material/mechanical properties, solidification processes for powder/solids/liquids
- Traditional and rapid prototyping/ manufacturing processes/capabilities
- Rapid manufacturing and MEMS, rapid tooling
- Medical applications
- Economic aspects/justification, rapid prototyping/tooling/manufacturing benefits
- Mass customisation, intelligent/lean/agile manufacturing
- Collaborative/web-based engineering, information management, e-commerce

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