

Special Issue on Design and Manufacturing for Environmental Sustainability

Editor:

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Recent trends, such as the trend toward carbon neutrality and toward a circular economy, indicate that it is increasingly crucial to include environmental sustainability in design and manufacturing. In design, this includes ecodesign, life cycle design, scenario design, service design, and design for X, such as remanufacturing, refurbishment, repair, and direct reuse (RRRDR). It also includes maintenance, upgrades, recycling, disassembly, and inspection. In manufacturing, it includes sustainable manufacturing, carbon neutralization, reduced energy and/or resource consumption, and sustainable value chain management.

The aim of this special issue is to bring together the latest research and practical case studies on design and manufacturing for environmental sustainability, especially those that deal with a holistic view of technology, business, legislation, energy, resources, infrastructures, and customer behavior. Papers ranging from theory to applications and case studies are welcomed. Topics of interest in this special issue include but are not limited to the following.

- * Design for sustainability: ecodesign, life cycle design, scenario design, product service system design, design for XaaS, and design for X
- * Manufacturing aspects of sustainability: sustainable manufacturing, carbon neutralization in manufacturing, reduced energy and/or resource consumption, digital transformation in manufacturing, and sustainable value chain management
- * Business and social aspects of sustainability: SDGs, circular economy, ecobusiness planning, product service system business, sharing business, and environmental legislation
- * Planning and design of sustainable infrastructure systems: “smart” cities, zero energy buildings, circular economy platforms, and sensor-networks for environmental monitoring
- * Scenario planning and/or analysis for sustainability
- * Energy management and new energy technologies

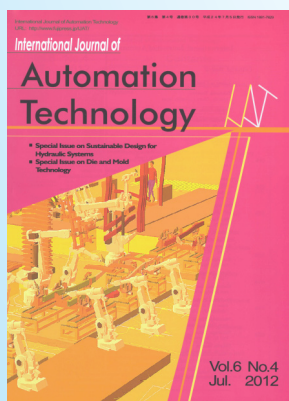
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*Speedy Review (1-2months for the first review)

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April 29, 2022

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