

# Special Issue on Novel Fabrication Processes for Tailored Functional Materials and Surfaces

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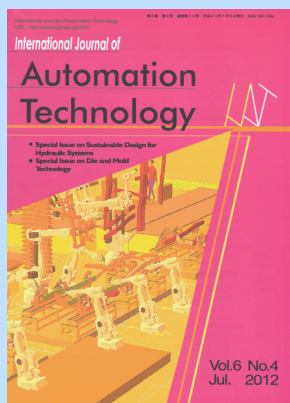
The properties of mechanical materials depend not only on its chemical components but also on micro/nano structures of its surface and interior. Attempts have been made in recent years to develop new surface/material functions by means of mechanical processes. For example, technologies to control various characteristics such as friction, water repellency, and optical properties have been developed by constructing micro/nano periodic structures on the surfaces of materials. Since these properties depend on the geometry of the surface morphology, micro/nano fabrication process can produce a variety of properties. This indicates that the surface properties and material properties of portions of the materials can be controlled to reach the optimal conditions required by machine product design. It is expected that this technology leads to advanced production of products integrating design, manufacturing and materials in an organic way. Here, we call materials and surfaces with their properties arbitrary controlled in accordance with machine design as the tailored functional materials and surfaces.

This special issue features various studies and reports related to tailored functional materials and surfaces. We call for a wide range of papers on, for example, a new process for developing new surface functions, a material technology to freely modify the properties of portions, a machining technology to locally control a surface function and a design technology to utilize the materials having a combination of these properties.

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