

SPECIAL ISSUE ON SENSORS AND MATERIALS IN MANUFACTURING

PREFACE



First of all, we would like to define the word manufacturing. Manufacturing refers to the assembly of materials and parts to produce and sell products by manufacturers, and in a broad sense, related industries. For example, constructing bridge piers on the ground is not classified as manufacturing but construction. However, sensors that detect the deterioration of such piers and maintenance technology to prevent their deterioration are classified as manufacturing. Thus, manufacturing encompasses a very wide range of technological concepts.



Considering our expertise as guest editors, we hope papers on the following topics will be of interest to readers and provide useful information for future materials in manufacturing: sensing technology in the manufacturing of fundamental materials (*SOKEIZAI*) by plastic forming of mainly metals, by injection molding of mainly plastics, and by casting, and the development of new sensors themselves and various maintenance technologies that support the above-mentioned manufacturing. In this issue, there are 11 papers from top researchers in the field of materials in manufacturing. All papers were subjected to peer review and final examination by the guest editors.

Lastly, we would like to thank Ms. Tomoko Tanabe, Editorial Department of MYU K.K., for her kind support in the publication of this special issue of *Sensors and Materials*.

Ming Yang
Professor, Tokyo Metropolitan University
Japan

Masao Murakawa
Professor, Nippon Institute of Technology
Japan