

SPECIAL ISSUE ON NEW TRENDS IN ROBOTS AND THEIR APPLICATIONS II

PREFACE



The world is experiencing a social revolution through robotics, with many successful applications of advanced robotic technologies being realized all over the world. A robot is defined as an intelligent machine that consists of sensors, actuators, and controllers with the potential to be used to increase convenience in every part of society.

The issue focuses on new trends in robotics and applications in the 2020s, with new applications of robotics to land use, underwater use, intelligent shipping use, medical use, and AI and IoT systems presented. The papers are mainly from universities in Asia. This is because of new clusters of organizations developing robotics in Japan and Korea, which are the centers for new industrial products. For example, Nagasaki is a center of excellence for producing marine and medical technologies.

It is hoped that the papers will provide useful hints for developing new robotics including sensor and material technologies and help inspire successful business opportunities based on the designs reported in this issue and their underlying principles.

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