SPECIAL ISSUE ON INTELLIGENT SENSING AND ANALYSIS FOR HUMAN–MACHINE INTERACTION IN HEALTHCARE, BIOMEDICAL ENGINEERING, AND HUMAN-CENTERED INDUSTRIES: PART 1

PREFACE

The integration of intelligent sensing and analytical methodologies is transforming healthcare, biomedical engineering, smart agent control, and other human-centered industries. The synergy of innovative sensory technologies and adaptive systems, supported by advanced computational strategies, is crucial for developing seamless and natural user interfaces. This special issue focuses on extracting insights through contact and remote sensing modalities and advancing the interpretation of sensory data for supportive systems, assistive devices, and intelligent agents. These advancements make human–machine interaction more intuitive, effective, and user-friendly.

After a rigorous review process, seven papers were selected for publication in part 1 of this special issue. We hope these papers will benefit both academia and industry in intelligent sensing and analysis. We sincerely appreciate the support from all authors and reviewers who contributed to this special issue. Our gratitude especially goes to Ms. Tomoko Tanabe of the editorial department for her kind support throughout the publication of this issue.

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