Special Issue on Signal Collection, Processing, and System Integration in Automation Applications: Part 2

Preface

With the rapid progress of industrialization in recent years, a wide variety of automation techniques have been developed and applied in industry. For this reason, signal collection, processing, and system integration in automation applications have played a crucial role in industry. This rapid trend has driven progress beyond traditional mechanization. Furthermore, Industry 4.0 techniques are bringing modern engineering into a new era. Therefore, more complex problems, such as in automatization, robotics, mechatronics, measurement, and control systems, can be resolved by using signal collection and processing algorithms more efficiently.

All the papers in this issue are based on novel methodologies and implementations, creative and innovative automation systems, and integrated engineering associated with crucial fields. There are 9 papers accepted for publication among four major topics on: 1. Automation systems. 2. Multi-source sensing signal processing. 3. AI applications. 4. Biosensors. Many valuable solutions have been presented covering both theory and applications in the field of sensors and materials.

Hsiung-Cheng Lin
Professor, Department of Electronic Engineering
National Chin-Yi University of Technology
Taiwan