

Special Issue

Intelligent Automatic Control Systems

Message from the Guest Editors

Automatic control systems play a foundational role in modern engineering by ensuring stability, efficiency, and reliability across dynamic and complex processes. Intelligent automatic control systems are becoming a core element of forward-looking automation by enabling the integration of new sensing technologies, sensing data processing and fusion, image-based information, and real-time decision-making. Recent developments demonstrate a strong convergence of intelligent control theory with advanced sensing data analytics, sensor fusion techniques, sensor-based state estimation, and image-derived information. This integration enhances system stability, fault detection, predictive capability, operational efficiency, energy utilization, cost reduction, environmental sustainability, and even human health protection. This Special Issue invites original research that explores the intersection between emerging sensing technologies and intelligent automatic control systems. Submissions may include innovative sensing methods, algorithmic developments, experimental studies, and real-world applications.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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