*Special Issue Reprint*

# Smart Manufacturing & Automation Control Systems for Industry 4.0/5.0

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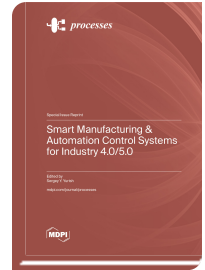
The reprints on "Smart Manufacturing & Automation Control Systems for Industry 4.0/5.0" provides a comprehensive examination of the latest advancements and innovations in the fields of smart manufacturing and automation control. This Special Issue gathers extended papers from the 3rd IFSA Winter Conference on Automation, Robotics & Communications for Industry 4.0/5.0 (ARCI' 2023). This Special Issue underscores the rapid growth and transformative potential of Industry 4.0 and the emerging Industry 5.0, with a focus on the integration of advanced automation tools, robotic control, communications, and big data analytics. It highlights how these technologies collectively enable more efficient, flexible, and responsive manufacturing processes. Overall, this Special Issue emphasizes the critical role of advanced automation and control systems in driving the evolution of manufacturing industries. It reflects the growing importance of integrating cutting-edge technologies to enhance productivity, quality, and sustainability in manufacturing operations. The contributions in this Special Issue not only showcase the current research and development efforts but also provide a forward-looking perspective on the future of manufacturing in the era of Industry 4.0 and beyond.

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