Advances of Modern Control Systems and Robotic Applications

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editor

Control and automation in their broadest sense play a fundamental role in process industries. Automatic control systems involve mathematics more than is usual in other engineering disciplines. Even though the subject has a strong mathematical foundation, emphasis throughout the literature is not on mathematical rigor or formal derivation (unless they contribute to the understanding of the concept) but, instead, on the methods of application associated with the analysis and design of the feedback system. Advances in sensors, actuators, computation technology, and communication networks help provide the necessary tools for the implementation of control hardware. Practical applications for this control method are aimed toward a variety of relevant scientific research fields that incorporate robotics and automation in applications. The scope of this Special Issue is to present and discuss new trends in the design, control, and applications of control systems, robots, and mechatronic systems...

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Special Issue