

Special Issue

Algorithms for PID Controller 2024

Message from the Guest Editors

To date, the PID controller is the most commonly used control algorithm in industry applications. Since its first developments, the PID algorithm has gone hand in hand with the evolution of science and engineering, and new methods and applications have been introduced over time. Advances in recent decades provided by the area of fractional-order control, and more recently by artificial intelligence techniques, have given rise to a refreshing boost to PID control. This Special Issue aims to present the most recent developments in the theory and applications of PID controllers. The focus is on reporting theoretical and applied research results in control structures, optimization techniques, metaheuristic algorithms, tuning methods, digital implementations, and applications of the PID algorithm, among others, and in the use of current techniques of artificial intelligence such as machine learning, deep learning, and reinforcement learning.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

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