

# Special Issue

## Recent Developments in Disturbance Rejection Control Theory and Applications

### Message from the Guest Editors

In recent years, disturbance rejection control has received considerable attention from researchers and engineers. In this field, many disturbance rejection control techniques have been developed by introducing new mathematical analysis tools, and the developed methods are used to handle the effects of various disturbances and system uncertainties, such as sliding-mode control, non-smooth control,  $H_\infty$  control, output regulation, disturbance observer-based control, active disturbance rejection control, etc. Topics of interest include but are not limited to the following:

- **Advanced disturbance rejection Strategies:** Novel disturbance estimation method for more general disturbances, as well as new disturbance attenuation or compensation strategies;
- **Stability Analysis:** New techniques for the analysis of closed-loop system stability;
- **Practical Applications:** Implementations in mechatronic systems, flight control systems, power electric systems, mobile robots, and other nonlinear systems;
- **Simulation Results:** Studies showcasing simulation outcomes that validate new control approaches.

### Guest Editors

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### Deadline for manuscript submissions

30 September 2025



## Mathematics

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The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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