

Special Issue

Advances in Study of Time-Delay Systems and Their Applications, 2nd Edition

Message from the Guest Editor

This Special Issue of *Mathematics* is focused on recent developments in approaches to time-delay systems analysis and control design. We seek papers on system stability and dynamics analysis, including exponential, asymptotic, strong, delay-dependent, delay-independent, BIBO, H_2 , H_∞ , and other types of system stability. Hopf, fold, and pitchfork bifurcation; stability switching; and eigenvalue analyses are also welcome. Special consideration will be given to delays of neutral types and systems given by algebraic-differential equations; however, systems with retarded delays are also acceptable. In addition, the scope of this Special Issue includes modern control methods and their applications, such as switched systems, event-triggered control, Lyapunov–Razumikhin- and Krasovskii-type approaches, etc.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2025)



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About the Journal

Message from the Editor-in-Chief

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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