Special Issue

Fault Diagnosis, Fault Tolerant Control and Process Simulation of Nonlinear Systems

Message from the Guest Editors

For several years, studying process faults has been of great interest. However, there are still many approaches to be explored in nonlinear systems. Fault diagnosis refers to the procedure of determining whether a fault occurs in a system, including identifying when, where, what kind of a fault, and what has been the impact of the fault. Fault diagnosis provides useful information for fault-tolerant control schemes, allowing the exploration of tolerance to different magnitudes and types of faults from developing controllers. This Special Issue on "Fault Diagnosis, Fault Tolerant Control and Process Simulation of Nonlinear Systems" covers recent advances in developing different approaches to deal with process faults. Topics include, but are not limited to:

- Nonlinear processes;
- Fault detection and isolation systems;
- Fault diagnosis systems;
- Observer design for fault systems;
- Adaptive fault-tolerant control.

Guest Editors

Prof. Dr. Gloria Lilia Osorio-Gordillo

Department of Electronic Engineering, Tecnológico Nacional de México/CENIDET, Interior Internado Palmira S/N, Col. Palmira, Cuernavaca 62490, Morelos, Mexico

Dr. Marouane Alma

CRAN UMR 7039, Control, Identification and Diagnosis Department, University of Lorraine (Université de Lorraine), 54506 Nancy, France

Deadline for manuscript submissions

15 January 2026

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

mdpi.com/si/216086

Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

mdpi.com/journal/processes

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

mdpi.com/journal/processes

About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))