# **Special Issue**

# Advanced Mathematics and Computational Applications in Control Systems Engineering

# Message from the Guest Editors

Control system engineering is a multidisciplinary discipline that applies automatic control theory to design systems with desired behaviors in control environments. Automatic control theory has played a vital role in the advancement of engineering and science. It has become an important and integral part of modern industrial and manufacturing processes. Today, the requirements for control precision have become higher, and real systems have become more complex, including higher order, discrete, hybrid, time-delayed linear, nonlinear systems, and systems without a mathematical model and uncertainties.

In control engineering, in parallel to all other engineering disciplines, the impact of advanced mathematical and computational methods is rapidly increasing. Advanced mathematical methods are needed because real-world control systems need to comply with several conditions related to product quality and safety constraints that have to be taken into account in problem formulation ...

# **Guest Editors**

Dr. Francisco Ronay López-Estrada

Tecnológico Nacional de México / Instituto Tecnológico de Tuxtla Gutiérrez, TURIX-DYNAMICS Diagnosis and Control Group, Carretera Panamericana, Km 1080, Tuxtla Gutierrez 29050, Mexico

Prof. Dr. Guillermo Valencia-Palomo

Tecnológico Nacional de México/Instituto Tecnológico de Hermosillo, Ave. Tecnológico y Periférico Poniente SN, Hermosillo 83170, Mexico

## Deadline for manuscript submissions

closed (31 July 2020)



# Mathematical and Computational Applications

an Open Access Journal by MDPI

Impact Factor 2.1 Indexed in Scopus



mdpi.com/si/27771

Mathematical and Computational Applications Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 mca@mdpi.com

mdpi.com/journal/ mca





# Mathematical and Computational Applications

an Open Access Journal by MDPI

Impact Factor 2.1 Indexed in Scopus



# **About the Journal**

# Message from the Editorial Board

#### **Editors-in-Chief**

Prof. Dr. Oliver Schütze

Depto de Computacion, Cinvestav, Mexico City 07360, Mexico

Prof. Dr. Gianluigi Rozza

SISSA mathLab, International School for Advanced Studies, Office A-435, Via Bonomea 265, 34136 Trieste, Italy

#### **Author Benefits**

## **High Visibility:**

indexed within Scopus, ESCI (Web of Science), Inspec, and other databases.

## Journal Rank:

JCR - Q2 (Mathematics, Interdisciplinary Applications)

# **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 25.3 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

