



Nonlinear Systems and Models of Traffic Flow for Intelligent Transportation and Communication

Guest Editor:

**Prof. Dr. Jean Chamberlain
Chedjou**

Institute for Intelligent System
Technologies, Alpen-Adria-
Universität Klagenfurt,
Klagenfurt, Austria

Deadline for manuscript
submissions:

closed (31 December 2023)

Message from the Guest Editor

The recent developments in science and technology call for advanced instruments for a robust systems engineering and/or analysis, especially regarding modeling, simulation, control/optimization, forecasting and communication under particularly hard system-theoretical challenges as well as hard practical constraints and requirements. This complexity inherently manifests itself through traffic scenarios and phenomena described by traffic flow data, traffic flow models.

In this Special Issue, we invite submissions exploring the development of methods, concepts and algorithms for analysing traffic flow in transportation and communication engineering. The main focus is on Modeling, simulation, Control/optimization, forecasting and communication. Contributions can focus on Mathematical methods, Numerical simulations, Analog computing, MOSFETs technology, Oscillatory theory, Synchronization and Self-organization, Stability and Bifurcation analysis.

Prof. Dr. -Ing. Jean Chamberlain Chedjou

Guest editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)