



Novel Approaches to Improve the Efficiency and Resiliency of Dynamical Systems

Guest Editors:

Prof. Dr. Nicola Epicoco
nicola.epicoco@univaq.it

Prof. Dr. Raffaele Carli
raffaele.carli@poliba.it

Prof. Dr. Graziana Cavone
graziana.cavone@poliba.it

Prof. Dr. Mario Di Ferdinando
mario.diferdinando@univaq.it

Deadline for manuscript
submissions:

31 January 2022

Message from the Guest Editors

Real-world systems are typically dynamic, in the sense that they evolve with time. Dynamic systems theory and its application in highly varied contexts prove its usefulness in supporting the proper management of a large variety of systems in numerous fields, ranging from engineering to economics, including ecology. Efficient and resilient dynamic systems have recently attracted more and more attention due to the need for increased resiliency of critical infrastructures to high-impact and low-frequency critical events. The aim of this Special Issue is to address key concerns on how to manage, monitor, analyze, evaluate, and control dynamic systems in an efficient and resilient manner. The research involves but is not limited to electronic systems, communication systems, buildings, transportation, mobility, energy systems, water system management, and security.

Potential topics in the dynamical systems efficiency and resilience areas include but are not limited to the following:

- Dynamic systems;
- Decision support systems;
- Control tools;
- Multiobjective optimization methods;
- Modeling techniques;
- Uncertainty modeling;
- Robust optimization.

