Distributed Control and Optimization of Fractional-Order Systems: Theory and Applications

Guest Editors:

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Message from the Guest Editors

Currently, the distributed optimal control of fractional-order systems finds significant applications in various fields, such as networked control systems, smart grids, UAV formations, robotic swarm control, and biomedical engineering.

The primary aim of this Special Issue is to disseminate the latest findings, new research advancements, future trends, and innovations in the distributed control and optimization of fractional-order systems. Both theoretical and experimental research are encouraged. Additionally, high-quality reviews and survey papers are welcome.

The submitted papers may focus on, but are not necessarily limited to, the following areas:

- Optimal control of fractional-order nonlinear systems;
- Distributed coordination of fractional-order networked systems;
- Distributed optimization of fractional-order networked systems;
- Distributed Nash equilibrium of games between fractional-order networked systems;
- Fault detection filtering and fault tolerant control of fractional-order networked systems;
- Safety-critical control of fractional-order cyber-physical systems subject to various network attacks.

Special Issue