Special Issue

AI-Based Power System Stability and Control Analysis

Message from the Guest Editors

This Special Issue will focus on how AI can be leveraged for power system stability analysis and control, which is especially challenging due to the increasing penetration of converter-interfaced generations (CIG) in modern power systems. AI with real-world data and cutting-edge techniques will be discussed. This Special Issue will present new promising research directions in power system stability analysis and control and will disseminate and discuss research on AI. Topics of interest include, but are not limited to, the following:

- Hybrid augmented intelligence for AI in power system stability analysis and control;
- Interpretable AI in power system stability analysis and control;
- Casual inference in power system stability analysis and control;
- Observability and controllability assessment of AI-based power system stability analysis and control;
- Benchmark dataset creation requirements for power system stability analysis;
- AI in measurements-based online stability assessment and emergency control;
- AI in multiple time-scale system dynamics dominated by CIGs;
- AI in non-linear and complex system dynamics.

You are welcome to contribute!!!

Guest Editors

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Deadline for manuscript submissions

closed (20 May 2024)

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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