ML-Based Cognitive Network Management: For Better 6G Applications

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Message from the Guest Editors

Dear Colleagues,

A cognitive network (CN) is a system that employs cognitive processes to analyze the current condition, make a decision based on such findings, and then improve from such actions.

In general, AI and Machine Learning (ML) may help to realize and optimize 6G network applications. The use of machine learning techniques in 6G wireless communication networks has stimulated concern. Cognitive or flexible spectrum allocation systems enable intelligent, adaptive wireless connections that coexist with existing wireless networks and allow access anytime, anywhere. Cognitive radio devices constantly monitor their surroundings and access spectral range non-intrusive, decentralized manner. Machine learning-based algorithms and models can help with wireless network analysis and resource management and handle the growing volume of communication and processing emerging networking applications require.

We're searching for papers highlighting ML-based cognitive network management for better generation and unique features that will enable developing technology and make the generation safer and wealthier.

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