Application of Artificial Intelligence and Deep Learning in Wireless Communications Systems

Guest Editor:

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closed (20 March 2021)

Message from the Guest Editor

Recently, artificial intelligence (AI) and deep learning (DL) technology have gained a lot of popularity due to their remarkable performance compared to traditional schemes, and they have begun to be applied in wireless communications. Given that the AI- and DL-based schemes are more adaptable to the wireless environment, do not rely on the mathematically tractable system model, and show lower computational complexity during run-time, they are more appropriate for the recent wireless technologies, i.e., future wireless communication systems.

This Special Issue encourages the submission covering contributions regarding future wireless communication systems, especially the application of AI and DL in wireless communication system.

The list of possible topics includes, but is not limited to:

- Challenges and design requirement for future wireless communication systems;
- Application of DL and AI for wireless communication systems;
- Evaluating the limitations of AI and DL in wireless communications;
- Big data for future wireless communication systems;
- Security for future wireless communication systems;
- Implementation of DL and AI technology for wireless communication;

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Message from the Editor-in-Chief

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