Special Issue

Recent Advances in Cellular D2D Communications

Message from the Guest Editors

Device-to-device (D2D) communications have attracted a great deal of attention from researchers in recent years. It is a promising technique for offloading local traffic from cellular base stations by allowing local devices, in physical proximity, to communicate directly with each other. However, there are many challenges to realizing the full benefits of D2D. For one, minimizing the interference between legacy cellular and D2D users, operating in underlay mode, is still an active research issue. With 5G expected to be the main carrier for IoT traffic, the potential role of D2D and its scalability to support massive IoT devices and their machine-centric (as opposed to human-centric) communications need to be investigated. New challenges have also arisen from new enabling technologies for D2D communications, such as millimeter-wave and massive MIMO (multiple-input and multiple-output) systems, which call for new solutions to be proposed. The aforementioned matters are just a few examples of the many challenges that remain to be addressed.

Guest Editors

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Deadline for manuscript submissions

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Future Internet

About the Journal

Message from the Editor-in-Chief

Future Internet is a fast-growing journal devoted to rapid publications of the latest results in the general areas of computer networking/communications and information systems, with a focus on the Internet of Things, big data and augmented intelligence, smart systems (in terms of technologies, architectures, and applications), network virtualization, edge/fog computing, and cybersecurity. Both theoretical and experimental papers are welcome. Every year, *Future Internet* also features Special Issues dedicated to specific topics within the journal's scope.

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