



Trends, Issues and Challenges toward 5G and beyond

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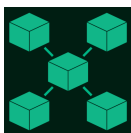
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Message from the Guest Editor

In the last decade of 20th century, information and communication technologies (ICT) growth was primarily driven by mobile technologies. New mobile generations appeared approximately every 10 years since the first 1G systems (analog) were introduced in 1982. The first 2G systems (first digital) were commercially deployed in 1992, and the 3G systems appeared in 2001. 4G systems were first standardized in 2012. Now, the 5G system is focused and is expected to be more than new access technology. It may mean a new wireless access technology, new core network technology and may support very wide applications, including IoT, such as smart cars, smart cities, in additions to the enhancement of mobile wireless communications.

The Internet has driven ICT growth and has been applied to man-to-man, man-to-machine and machine-to-machine communications. IoT is based on machine-to-machine communications and will be a driver for next generation applications. As such, 5G and IoT are two of vital pivots in the future ICT platform and applications. The goal of 5G is very challenging.





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