

Foreword about [Tran Trung Duy](#), Posts and Telecommunications Institute of Technology, Ho Chi Minh City campus (PTIT-HCM), Vietnam.

[Tran Trung Duy](#) received the Ph.D. degree in electrical engineering from University of Ulsan, South Korea. Since 2022, he has been an associate Professor of Wireless Communications at PTIT-HCM. He received the prestigious 'Exemplary Reviewer' Certificates of IEEE Communications Letters for 2016, 2017, and IEEE Transactions on Communications for 2016. Currently, he is an associate editor for *Advances in Electrical and Electronic Engineering* journal (AEEE), *Wireless Communications & Mobile Computing Journal* (WCMC), *EAI Endorsed Transactions on Industrial Networks and Intelligent Systems Journal* (EAI INIS), ... His major research interests are cooperative communications, cooperative multi-hop, cognitive radio, physical-layer security, energy harvesting, hardware impairments and Fountain codes.



Tran Trung Duy

The next-generation wireless communication networks, including 5G and beyond 5G (B5G), are ushering in a new era for application technology, where everything is smartly connected with high speed and ultra-low latency. These technologies are not just an upgrade in data transmission speed but also form the basis for the development of a range of new applications, creating new opportunities in all areas of life. With the ability to simultaneously connect a large number of devices, the 5G/B5G networks lay the foundation for the Internet of Things (IoT) system, providing strong support for sectors such as remote healthcare, multimedia communication, intelligent transportation, smart cities, and more. Moreover, wireless communication networks combined with Artificial Intelligence (AI) and Machine Learning (ML) promise to bring about intelligent systems capable of automation, efficient energy management, and optimization at a high level. This integration also enhances security measures, safeguarding data against increasingly sophisticated cyber threats. Therefore, the advancements brought by 5G/B5G will reshape our society in profound ways, making our future more connected, intelligent, and efficient than ever before.

Dear readers,

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