

# Wireless Blockchain Networks: How Much Communication Resource is Needed?



THEMATIC AREA: Blockchain

WEBINAR TITLE: Wireless Blockchain Networks: How Much Communication Resource is Needed?

DATE: Fri 26 March 2021

TIME: 12:00 – 13:00 GMT

DURATION: 1 Hour

VENUE: Online

CONTACT: [blockchain-secretary@ieee-ukandireland.org](mailto:blockchain-secretary@ieee-ukandireland.org)

## > WEBINAR HIGHLIGHTS

In this talk, wireless blockchain networks (WBN), with different network topology and communication protocols, for various commonly used blockchain consensus consensus will be discussed. We will discover the challenges of WBN, and the relationship between the communication (in terms of spectrum and power provision), and the wireless blockchain network performance (in terms of scalability, throughput and latency, and security). We will try to answer one important question, how much communication resource is needed to run a wireless blockchain network.

## > WHO SHOULD ATTEND

This webinar is intended for everyone, from students already studying a branch of blockchain and telecommunications to practitioners who work in the field, to people who consume or use services rendered online on a daily basis.

## > WEBINAR OBJECTIVES

- Introduce the concept of wireless blockchain networks.
- Discuss the role and function of communication on blockchain.
- Investigate the relationships between the communication network and blockchain.
- Present our recent use cases of wireless blockchain networks including COVID-19, automation and 6G

## > THE SPEAKER

Dr. Lei Zhang is a Senior Lecturer (Associate Professor) at the University of Glasgow, U.K. He has academia and industry combined research experience on 4G/5G/6G wireless communications and its applications to IoT, Blockchain, automation, data privacy and security. He is PI or Co-I of several research projects funded by UKRI, DCMS, Scottish government and industry. He has 14 patents granted in more than 30 countries/regions including US/UK/EU/China/Japan etc. Dr Zhang has published 3 books and 100+ peer-reviewed papers. He received IEEE Communication Society TAOS Best Paper Award 2019.

Dr Zhang is the founding Chair of Special Interest Group on Wireless Blockchain Networks in IEEE Cognitive Networks Technical Committee (TCCN). He is a Technical Committee Chair of 5th International conference on UK-China Emerging Technologies (UCET) 2020. Co-chair of Cyber-C Blockchain workshop 2019. He is an associate editor of IEEE Internet of Things (IoT) Journal, IEEE Wireless Communications Letters and Digital Communications and Networks. Dr Zhang's research was widely covered by media including BBC.



## > WEBINAR CONTENTS

1. 5G/6G
2. Blockchain/DLT
3. Consensus protocols
4. Blockchain applications

## > ACCREDITATION

This webinar is accredited by IEEE UK and Ireland Section.

## > TRAINING WEBINAR STYLE

This training Webinar is practical, participatory and personal. We focus on real issues and help participants to benefit from the techniques covered, rather than just discuss them. A variety of learning methods are employed to stimulate interest and meet the differing needs of participants– including illustrated presentations, discussions, and case studies.

## > REGISTRATION

Please fill in the form at <https://www.eventbrite.co.uk/e/wireless-blockchain-networks-how-much-communication-resource-is-needed-tickets-143565800173> to book your seat for the webinar



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