IEEE

United Kingdom and Ireland Section
IEEE UK & Ireland Blockchain Group

Blockchain and New Consensus Algorithms for Wireless Networks

THEMATIC AREA: Autonomous Wireless Networks		
WEBINAR TITLE: Blockchain Based Automated Wireless Network Operation		
DATE: Friday 6 December 2019	TIME: 15:00 – 16:00 UTC	DURATION: 1 Hour
VENUE: Online	CONTACT: blockchain-secretary@ieee-ukandireland.org	

> WEBINAR HIGHLIGHTS

As an introduction to autonomous wireless networks, this webinar is designed to discuss the applications of blockchain in 5G wireless network operation. From high number of smallcell deployments to increasing device heterogeneity, 5G networks require certain processes to be automated. A few of these processes; 1) Unlicensed frequency grants, distribution and management, 2) Network optimization with certain performance targets, 3) Software and hardware upgrades on network nodes, 4- Financial transactions inside and outside of the network, and 5- Contracts made among wireless service providers and wireless data consumers. During webinar, Smallcellcoin™, Cryptocurrency of Wireless Networks, will be introduced, and explained in detail.

> WHO SHOULD ATTEND

This webinar is intended for everyone, from students already studying applications of Blockchain to practitioners who work in the field of telecommunications, to people who consume or use 4G/5G/WiFi wireless communication services on a daily basis.

> WEBINAR OBJECTIVES

- Discuss characteristics of autonomous wireless networks
- Provide insights on 5G network operation including spectrum management
- Discuss blockchain based automation in 5G wireless networks
- Explain the new consensus algorithms developed for wireless networks
- Present uses cases for Smallcellcoin™, and smart contracts
- Finally, outline structure for future wireless network automation

> THE SPEAKER

Dr. Volkan Sevindik is the founder of Smallcellcoin Inc. .Prior to founding Smallcellcoin Inc., he has held management, technical consultant and engineering positions in Alcatel-Lucent/Nokia, Sprint, Vodafone, Turkcell and in start-up companies Airvana Inc, Azimuth Systems. Dr. Sevindik is actively involved in industry forums, associations and conferences worldwide.

Volkan holds a PhD in Electrical Engineering from University of Massachusetts, MA, US; MSc in Electrical Engineering, from Bogazici University, Istanbul Turkey and BSc, first class honours, in Electronics and Communication Engineering from Istanbul Technical University, Istanbul, Turkey. He has 30+ granted US patents, and he has authored conference papers, journal papers, and book chapters including "Wireless Multi-Access Environments and Quality of Service Provisioning: Solutions and Application: Solutions and Application".

> WEBINAR CONTENTS

1. Autonomous Wireless Networks
2. Blockchain & Consensus Algorithms
3. Unlicensed Spectrum Management in 5G Network
4. Automation of Network Upgrades
5. Smallcellcoin™ & Financial Transactions in Wireless Networks

> 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/blockchain-and-new-consensus-algorithms-for-wireless-networks-tickets-81353720167 to book your seat for the webinar

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Further details about Volkan can be found on www.volkansevindik.com

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