NEXT GENERATION MULTIPLE ACCESS

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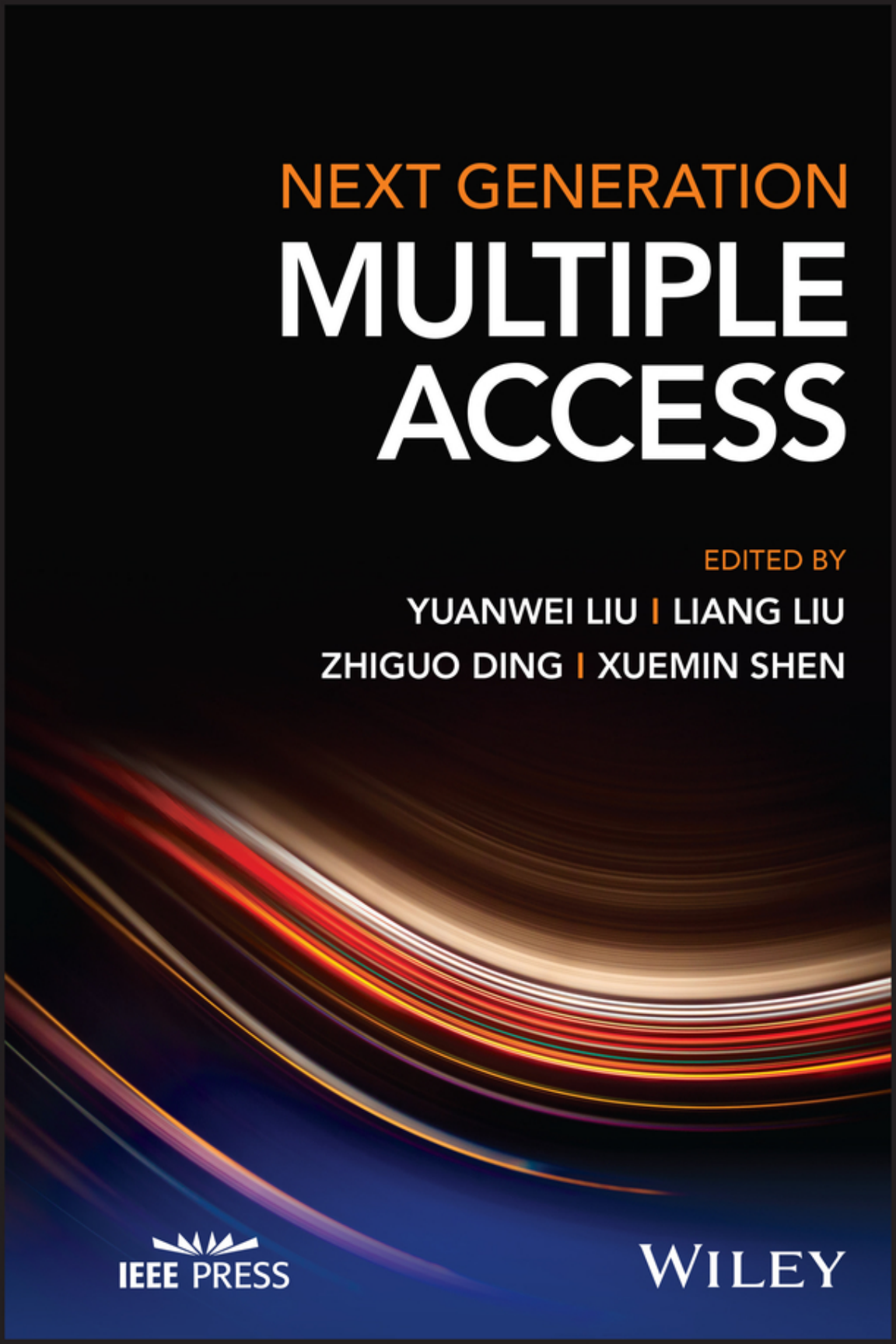

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Contents

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Yuanwei Liu received the PhD degree in electrical engineering from the Queen Mary University of London, UK, in 2016. He was with the Department of Informatics, King's College London, from 2016 to 2017, where he was a Post-Doctoral Research Fellow. He has been a Senior Lecturer (Associate Professor) with the School of Electronic Engineering and Computer Science, Queen Mary University of London, since August 2021, where he was a Lecturer (Assistant Professor) from 2017 to 2021. His research interests include non-orthogonal multiple access, reconfigurable intelligent surfaces, integrated sensing and communications, and machine learning. Yuanwei Liu has been a Web of Science Highly Cited Researcher since 2021, an IEEE Communication Society Distinguished Lecturer, an IEEE Vehicular Technology Society Distinguished Lecturer, and the academic Chair for the Next-Generation Multiple Access Emerging Technology Initiative. He was listed as one of 35 Innovators Under 35 China in 2022 by MIT Technology Review. He received the IEEE ComSoc Outstanding Young Researcher Award for EMEA in 2020. He received the 2020 IEEE Signal Processing and Computing for Communications (SPCC) Technical Committee Early Achievement Award and IEEE Communication Theory Technical Committee (CTTC) 2021 Early Achievement Award. He received the IEEE ComSoc Outstanding Nominee for Best Young Professionals Award in 2021. He is the co-recipient of the Best Student Paper Award in IEEE VTC2022-Fall, the Best Paper Award in ISWCS 2022, and the 2022 IEEE SPCC-TC Best Paper Award. He serves as the Co-Editor-in-Chief of IEEE ComSoc TC Newsletter, an Area Editor of IEEE Communications Letters, an Editor of IEEE Communications Surveys & Tutorials, IEEE Transactions on Wireless Communications, IEEE Transactions on Network Science and Engineering, and IEEE Transactions on Communications. He serves as the Guest Editor for IEEE JSAC on Next-Generation Multiple Access, IEEE JSTSP on Intelligent Signal Processing and Learning for Next-Generation Multiple Access, and IEEE Network on Next Generation Multiple Access for 6G. He serves as the Publicity Co-Chair for IEEE VTC 2019-Fall, Symposium Co-Chair for Cognitive

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Liang Liu received the BEng degree from the School of Electronic and Information Engineering at Tianjin University in 2010 and the PhD degree from the Department of Electrical and Computer Engineering at National University of Singapore (NUS) in 2014. He was a Post-Doctoral Fellow at the University of Toronto from 2015 to 2017 and a research fellow at NUS from 2017 to 2019. Currently, he is an Assistant Professor in the Department of Electrical and Electronic Engineering at The Hong Kong Polytechnic University (PolyU). His research interests include wireless communications and networking, advanced signal processing and optimization techniques, and Internet-of-Things (IoT). Dr. Liang LIU is the recipient of the 2021 IEEE Signal Processing Society Best Paper Award, the 2017 IEEE Signal Processing Society Young Author Best Paper Award, the Best Student Paper Award for 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), and the Best Paper Award for 2011 International Conference on Wireless Communications and Signal Processing (WCSP). He was listed in Highly Cited Researchers, also known as "World's Most Influential Scientific Minds", by Clarivate Analytics (Thomson Reuters) in 2018. He is an editor for IEEE Transactions on Wireless Communications and was a leading guest editor for IEEE Wireless Communications' special issue on "Massive Machine-Type Communications for IoT."

Zhiguo Ding received the BEng in electrical engineering from the Beijing University of Posts and Telecommunications in 2000 and his PhD degree in Electrical Engineering from Imperial College London in 2005. He is currently a Professor in Communications at the University of Manchester. Previously, he had been working at Queen's University Belfast, Imperial College, Newcastle University and Lancaster University. From October 2012 to September 2024, he has also been an academic visitor in Prof. Vincent Poor's group at Princeton University. Dr. Ding research interests are machine learning, B5G networks, cooperative and energy harvesting networks and statistical signal processing. His h-index is 100, and his work receives 44,000+ Google citations. He is serving as an Area Editor for the IEEE TWC and OJ-COMS, an Editor for IEEE TVT, COMST, and OJ-SP, and was an Editor for IEEE TCOM, IEEE WCL, IEEE CL, and WCMC. He received the best paper award of IET ICWMC-2009 and IEEE WCSP-2014, the EU Marie Curie Fellowship 2012–2014, the Top IEEE TVT Editor 2017, IEEE Heinrich Hertz Award 2018, IEEE Jack Neubauer Memorial Award 2018, IEEE

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Xuemin Shen received the PhD degree in electrical engineering from Rutgers University, New Brunswick, NJ, USA, in 1990. He is a University Professor with the Department of Electrical and Computer Engineering, University of Waterloo, Canada. His research focuses on network resource management, wireless network security, the Internet of Things, 5G and beyond, and vehicular networks. Dr. Shen is a registered Professional Engineer of Ontario, Canada, an Engineering Institute of Canada Fellow, a Canadian Academy of Engineering Fellow, a Royal Society of Canada Fellow, a Chinese Academy of Engineering Foreign Member, and a Distinguished Lecturer of the IEEE Vehicular Technology Society and Communications Society. Dr. Shen received "West Lake Friendship Award" from "Zhejiang Province in 2023," President's Excellence in Research from the University of Waterloo in 2022, the Canadian Award for Telecommunications Research from the Canadian Society of Information Theory (CSIT) in 2021, the R.A. Fessenden Award in 2019 from IEEE, Canada, Award of Merit from the Federation of Chinese Canadian Professionals (Ontario) in 2019, James Evans Avant Garde Award in 2018 from the IEEE Vehicular Technology Society, Joseph LoCicero Award in 2015 and Education Award in 2017 from the IEEE Communications Society (ComSoc), and Technical Recognition Award from Wireless Communications Technical Committee (2019) and AHSN Technical Committee (2013). He has also received the Excellent Graduate Supervision Award in 2006 from the University of Waterloo and the Premier's Research Excellence Award (PREA) in 2003 from the Province of Ontario, Canada. He serves/served as the General Chair for the 6G Global Conference'23, and ACM "Mobihoc'15," Technical Program Committee Chair/Co-Chair for IEEE Globecom'24, 16 and 07, IEEE Infocom'14, IEEE VTC'10 Fall, and the Chair for the IEEE ComSoc Technical Committee on Wireless Communications. Dr. Shen is the President of the IEEE ComSoc. He was the Vice President for Technical and Educational Activities, Vice President for Publications, Member-at-Large on the Board of Governors, Chair of the Distinguished Lecturer Selection Committee, and Member of the IEEE Fellow Selection Committee of the ComSoc. Dr. Shen served as the Editor-in-Chief of the IEEE IoT Journal, IEEE Network, and IET Communications.

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