

Xiaoran Dai received the B.S. and Ph.D. degrees from Wuhan University, Wuhan, China, in 2017 and 2023, respectively. He is currently an Associate Researcher with Wuhan University. His research interests include renewable energy systems, microgrid control, networked control systems, predictive control, and digital twin technologies. He has published more than 30 papers in these areas and has been involved in several research projects on intelligent energy systems and resilient control. His current work focuses on distributed predictive control and intelligent operation of microgrids under communication constraints.