



Likai Liang <https://orcid.org/0000-0003-1271-6906>

She received her Ph.D. degree from School of Electrical Engineering from Shandong University, China in 2013. She teaches as an associate professor in School of Mechanical Electrical and Information Engineering at Shandong University, China. Her current research interests include power system operation and control.



Mingjun Zhang <https://orcid.org/0000-0002-8090-5963>

He graduated from Mudanjiang Electric Power Technology School in 1989. He now works as an assistant engineer in State Grid Jiamusi Power Supply Co. Ltd. His current research areas are smart grid and new energy power generation.



Qiang Zhang <https://orcid.org/0000-0003-1457-5166>

He received her Ph.D. degree from School of Electrical Engineering from Shandong University in 2007. He is currently a Senior Engineer with Shandong Electric Power Dispatching Control Center, Jinan, China. His current research interests include electric power system theory, operation and control.



Zhiqiang Niu <https://orcid.org/0000-0001-6494-7795>

He received his M.S. degree from Shandong University and now works in State Grid Weihai Power Supply Company. His current research interests include power network dispatching automation, and power system optimal operation