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He served as KIEE(Korean Institute of Electrical Engineers) PES society President(2018) and is Vice President of the KIEE in 2019. He is a chair of IEEE Seoul Section PES chapter now. Chul-Hwan, an IEEE senior fellow and KIEE fellow. Since 2018 he is an expert advisor(area of power engineering and electric machine) of research board in NRF(National Research Foundation) of Korea.

He holds 52 patents(including 13 international patents) and published more than 250 Transactions and Journals papers related to his research area, including SCI/E indexed 98 papers. He has received a number of awards, including the academic award of the KIEE(2000), Prof. Young-Moon Park's academic award(2001), the paper award of the KIEE(2017), and fifty of his papers have received the best paper award from the IEEE, KIEE and other academic institute.

He is mainly engaged in the teaching and research work of power system protection and electromagnetic transients. In recent years, he has been engaged in low voltage DC(LVDC) distribution line analysis and DC microgrid protection and control.