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Inhwi Hwang

ECE Ph.D. Candidate in University of Michigan

Fall 23' -
Feb 2022
Aug 2020
Jan. 2022 — Feb. 2023 Seoul, Korea
Sep. 2021 — Nov. 2021 Seoul, Korea
Jan. 2021 — Aug. 2021 Seoul, Korea
Mar. 2020 — Jun. 2020 Seoul, Korea

PUBLICATIONS

Journals

'Enhanced Dynamic Operation of Heavily Saturated IPMSM in Signal-Injection Sensorless Control with Ancillary Reference Frame'
(Status: published)

Authors: Inhwi Hwang, Yong-Cheol Kwon, Seung-Ki Sul
IEEE Transactions on Power Electronics (TPEL), 2022

'Analysis of Position Estimation Error in Signal-Injection Sensorless Control Induced by Inverter dv/dt Based Current Measurement
Noise' (Status: published)

Authors: Yoon-Ro Lee, Jiwon Yoo, Inhwi Hwang, Seung-Ki Sul
IEEE Transactions on Power Electronics (TPEL), 2022

Conference

'Enhanced Dynamic Operation of Heavily Saturated IPMSM in Signal-Injection Sensorless Control' (Status: published)

Authors: Inhwi Hwang, Yong-Cheol Kwon, Seung-Ki Sul IEEE Energy Conversion Congression and Expo (ECCE), 2022

Spring 2020

'Gain Scheduling of Full-Order Flux Observer for Sensorless PMSM Drives Considering Magnetic Spatial Harmonics' (Status: published) Authors: Jiwon Yoo, **Inhwi Hwang**, Yoon-Ro Lee, Seung-Ki Sul IEEE Energy Conversion Congression and Expo (ECCE), 2021

HONORS

Research Assistant Funding
Commencement Valedictorian (Graduate Class Representative) in Graduation Ceremony
(Click here for speech video link)

Fall 2023

Academic Scholarship, Kim Jeong-Sik Special Scholarship

SKILLS AND INTERESTS

Tools and Languages Interests

SiC power circuit design, DSP, Fusion360, Matlab, Simulink, Plecs, C, Latex, Python(Pytorch), R Wireless power transfer, Power semiconductor packaging, Grid-tied converters