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**Kazuki Abe**

Shibaura Institute of Technology, Tokyo, Japan

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**Paper Title** : Dual PWM Inverter by Coupling Reactor for PMSM and Active LC-LPF Driven by IRM-ILQ Optimal Current Control

**Bio :**

**Kazuki Abe** received the B.S. and M.S. in electrical engineering from Shibaura Institute of Technology, Japan, in 2023 and 2025, respectively, where he is currently pursuing Ph. D degree. His research interests include power electronics applications, mainly optimal control of permanent magnet synchronous motors using a modern control method, and renewable energy system such as grid-connected inverter. He received the Second Best Paper Award from IEEE International Conference on Renewable Energy Research and Applications (ICRERA) in Sep. 2023. He is a student member of the Institute of Electrical Engineering Japan (IEEJ) and the Society of Instrument and Control Engineers (SICE).