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**Paper ID :** 71

**Paper Title :** Robust Control of a Dual Star Permanent Magnet Synchronous Generator in Normal and Fault Conditions

**Bio:**

Mouhamed Mbengue is a PhD candidate in Electrical Engineering at ESP-UCAD. His research focuses on modeling, control, and optimization of multiphase permanent magnet synchronous machines, especially the dual three-phase machine (Double-Star PMSM), and their integration with modern power converters. His work also explores wide bandgap semiconductor technologies (SiC, GaN) for improving the efficiency and reliability of energy conversion systems. He has professional experience as an electromechanical engineer in industrial maintenance within energy and process industries.