

Andrea Formentini

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Current Academic Position

Nov 2023 - Present - Università di Genova - IT
Associate professor

Brief biography

Prof Formentini got the PhD in Electrical Engineering at University of Genoa in 2014. Subsequently he joined the Power Electronics, Machines and Control (PEMC) group at University of Nottingham as a research fellow where he continued pursuing research in the field of power electronic and drive systems. In September 2018 he got an academic position in the Electrical and Electronic Engineering Department at University of Nottingham as Assistant Professor. In November 2020 he joined the University of Genoa as assistant professor and member of the PETRA research group. In 2023 he has been appointed Associate Professor in the same university. He is author of more than 30 journal papers and associate editor of Transactions on Industry Applications.

Main publications

- Di Benedetto, M., Tang, M., Lidozzi, A., Solero, L., Formentini, A. and Zanchetta, P., 2022. Resonant and a new disturbance-observer combined control for off-grid voltage source inverter. *International Journal of Power Electronics and Drive Systems*, 13(1), p.223.
- Tang, M., Bifaretti, S., Pipolo, S., Formentini, A., Odhano, S. and Zanchetta, P., 2021. A novel low computational burden dual-observer phase-locked loop with strong disturbance rejection capability for more electric aircraft. *IEEE Transactions on Industry Applications*, 57(4), pp.3832-3841.
- Czerniewski, B., Formentini, A., Dewar, D., Zanchetta, P. and Schanen, J.L., 2021. Interaction of AC Grid Filters in Aircraft and Influence of the System Dynamic Behavior. *IEEE Transactions on Industry Applications*, 58(2), pp.2134-2143.
- Pipolo, S., Formentini, A., Trentin, A., Zanchetta, P., Calvini, M. and Venturini, M., 2021. A novel Matrix converter modulation with reduced number of commutations. *IEEE Transactions on Industry Applications*.
- Wen, Z., Valente, G., Formentini, A., Papini, L., Gerada, C. and Zanchetta, P., 2021. Open-Circuit Fault Control Techniques for Bearingless Multisector Permanent Magnet Synchronous Machines. *IEEE Transactions on Industry Applications*, 57(3), pp.2527-2536.