

Part of the contents of the Ph.D. thesis:

Sergio Busquets-Monge, *A Novel Pulsewidth Modulation for the Comprehensive Neutral-Point Voltage Control in the Three-Level Three-Phase Neutral-Point-Clamped Dc-Ac Converter*, Technical University of Catalonia, Spain, Oct. 2005.

has been published in the following IEEE papers:

- [1] S. Busquets-Monge, J. Bordonau, D. Boroyevich, and S. Somavilla, "The nearest three virtual space vector PWM - a modulation for the comprehensive neutral-point balancing in the three-level NPC inverter," *IEEE Power Electron. Lett.*, vol. 2, pp. 11-15, Mar. 2004.
- [2] S. Busquets-Monge, J. Bordonau, D. Boroyevich, A. Gilabert, and J. Salaet, "Output voltage distortion characterization in multilevel PWM converters," *IEEE Power Electron. Lett.*, vol. 2, pp. 24-28, Mar. 2004.
- [3] S. Busquets-Monge, S. Somavilla, J. Bordonau, and D. Boroyevich, "Capacitor voltage balance for the neutral-point-clamped converter using the virtual space vector concept with optimized spectral performance," *IEEE Trans. Power Electron.*, vol. 22, pp. 1128-1135, July 2007.
- [4] S. Busquets-Monge, J. D. Ortega, J. Bordonau, J. Beristain, and J. Rocabert, "Closed-loop control of a three-phase neutral-point-clamped inverter using an optimized virtual-vector-based pulsewidth modulation," *IEEE Trans. Industrial Electron.*, vol. 55, pp. 2061-2071, May 2008.
- [5] S. Busquets-Monge, S. Somavilla, J. Bordonau, and D. Boroyevich, "A novel modulation for the comprehensive neutral-point balancing in the three-level NPC inverter with minimum output switching frequency ripple," in *Proc. IEEE Power Electronics Specialists Conf.*, vol. 6, 2004, pp. 4226-4232.
- [6] S. Busquets-Monge, J. Bordonau, and J. A. Beristain, "Comparison of losses and thermal performance of a three-level three-phase neutral-point-clamped dc-ac converter under a conventional NTV and the NTV<sup>2</sup> modulation strategies," in *Proc. IEEE Industrial Electronics Soc. Conf.*, 2006, pp. 4819-4824.
- [7] S. Busquets-Monge, J. D. Ortega, J. Bordonau, J. A. Beristain, and J. Rocabert, "Closed-loop control design for a three-level three-phase neutral-point-clamped inverter using the optimized nearest-three virtual-space-vector modulation," in *Proc. IEEE Power Electronics Specialists Conf.*, 2006, pp. 1297-1303.