

Technique to Expand Power Transfer Area on Short-range WPT system

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Abstract

This paper investigated and clarified the contribution of a Multi-Input-Multi-Output (MIMO) wireless power transfer (WPT) system to the energy transmission efficiency on short distance WPT system. To evaluate the improvement of the energy transmission efficiency, a 4x4 MIMO WPT system was employed. The MIMO system effectively enhances the power transfer efficiency and expands the power transfer coverage in our investigation. The effective coverage of the MIMO wireless power transfer is 1.6 times wider than that of the 4x4 array system without MIMO control.

References

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