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Nonlinearity mitigation with neural networks in vector mm-wave system

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Hignlights

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Highlight

1. Volterra based NLE, two-layer forward NN (FNN) and radial basis function NN (RNN) are investigated in vector mm-wave system.

2. FNN and RNN scheme with similar performance are feasible to compensate the nonlinearity.

3. Nerual network (NN) class schemes outperform the conventional nonlinear equalization using statistics algorithm.

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