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The Impact of Dual Prediction Schemes on the Reduction of the Number of Transmissions in Sensor Networks

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**Highlights**

- A model for data transmissions in Wireless Sensor Networks is proposed.
- Dual Prediction Schemes can reduce up to 85% of the transmissions in small networks.
- Accurate predictions are better than a high correlation between measurements.
- Data aggregation reduces more transmissions than Dual Prediction Schemes in large networks.
- A Dual Prediction Scheme with data aggregation can avoid 98% of transmissions.

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