Propagation Issues for High-Speed Railways
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Motivation

In China, by 2020:
- 120,000 km – rail lines
- 16,000 km – HSR

✓ Over 95 disasters since 1990
✓ Over 52.6% accidents caused by the hit between trains

Viaduct Channels

Ricean
Suzuki

Viaduct Channels

Railway Scenarios

Viaduct
Tunnel
Station
Sea
River
Desert

✓ Different propagation environments
✓ Different setup of antennas

Measurement Campaign

Future Work

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