Real-time MIMO Vehicle-to-Vehicle Channel Measurements
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Motivation & Introduction

• Intelligent transportation systems
• Safety applications
• V2V channel model
• High resolution parameter estimation for MIMO measurements

Experiments

• Car-to-car, truck-to-car, truck-to-truck
• Urban, suburban, highway, tunnel
• Convoy, opposite direction, passing lane
• 2 million MIMO snapshots for C2C, 5 million MIMO snapshots for T2C, T2T

Discussion & Future Work

• Statistical time-variant channel models for V2V propagation channel
• Realistic system performance analysis of 802.11p in safety-related applications
• Vehicular network measurements and performance analysis