

Greenhouse Emissions, Vehicle Performance Data Mining, and Sustainable Value Creation

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Abstract

Vehicle health and operating characteristics highly influence the greenhouse emission of the vehicle. Onboard data stream mining can play an important role in identifying the factors that control the emission and ways to reduce that. This talk will offer an overview of the underlying vehicle performance data mining problem, describe some of the capabilities of MineFleet, and explain how predictive data stream mining algorithms can be used for onboard real-time analysis of data in order to perform multi-variate modeling and monitoring of vehicle emission. The talk will also present experiment results for quantifying the performance of these algorithms. It will end the presentation by identifying some of the possibilities for the future of vehicle emissions monitoring and how data mining can help.