

An Attempt to Clarify the Tendency in Failure of Snow Removal Machines and to
Quantitatively Evaluate Their Deterioration

除雪機械における故障の発生傾向と劣化度の定量的評価の試み

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Because of budget reductions in recent years, the renewal of snow removal machinery has been postponed and many of the current machines are decrepit. In light of this, serious breakdowns have been increasing, as has the number of days on which snow removal machinery is unable to be operated. The road snow removal system has been affected by such problems. It is required to effectively and efficiently conduct maintenance and management of snow removal machines with a limited budget, and to reduce the occurrence of serious breakdowns and the days when machinery is unable to be operated. To propose effective and efficient maintenance and management methods for snow removal machinery, the authors collated data on the operation and breakdown of snow removal machinery owned by the road administrator, and clarified the tendency in breakdowns of snow removal machinery. The authors attempted to apply Fault Tree Analysis (FTA), a method for evaluating reliability, to the quantitative evaluation of snow removal machinery deterioration.

本論文閲覧ご希望の方は、当該学会等にお問い合わせください。