

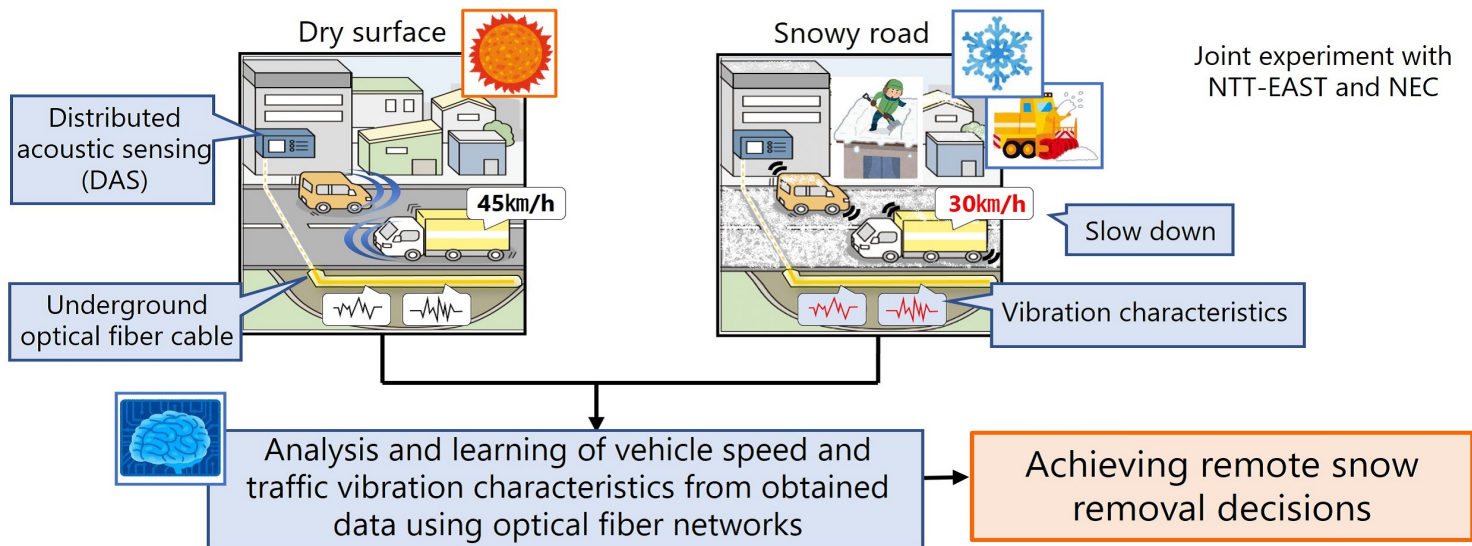


Background

Snow removal businesses are implemented in heavy snowfall areas. The necessity of snow removal is determined based on the results of daily road patrol surveys. It will be difficult to maintain the current snow removal business system due to labor shortages in local areas.

Summary

Using a machine learning model that was input traffic vibration data obtained by using existing communication underground optical fibers as sensors, we have demonstrated that it is possible to remotely estimate the need for snow removal at multiple points simultaneously.



Features

- Economical and maintenance-free monitoring without the need for sensor devices outdoors or in vehicles by using underground optical cables already installed as sensors
- Multiple routes and points can be observed by a single sensing equipment, enabling microscopic snow removal decisions for each road and section
- Short monitoring enables real-time determination of road surface conditions on the day of snow removal

Future_benefits

By analyzing environmental vibration data that can be collected using our optical fiber networks, we aim for a future that contributes to solving various social and local issues.

Collaboration partners

NEC Corporation

Exhibiting Company

NIPPON TELEGRAPH AND TELEPHONE CORPORATION, NIPPON TELEGRAPH AND TELEPHONE EAST CORPORATION

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