Optimizes inspection timing by predicting deterioration from images

Deterioration prediction using images

Background and Technical Challenges

Current methods predict corrosion using environmental data such as temperature and humidity, but models from uniform specimens fail to accurately reproduce diverse corrosion forms in complex steel structures.

R&D Goals and Outcomes

Accurate corrosion prediction enables optimal inspection and repair, significantly reducing maintenance costs.

Key Technologies

01 Core Technologies

AI model using NTT's nationwide time-series inspection data to analyze and apply environmental factors affecting corrosion.

02 Key Differentiators

This technology analyzes how corrosion size, condition, and steel shape affect progression, enabling high-precision, image-based deep learning

Use Cases Public Services & Local Government

R&D phase Business

【Exhibitors】
NTT Access Network Service Systems Laboratories

【Co-exhibitors】
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【Contact】
Civil Engineering Project

【Related Links】
https://group.ntt/en/newsrelease/2025/04/30/250430a.html