Fleet Monitoring

Digital twins for distributed fleets and assets

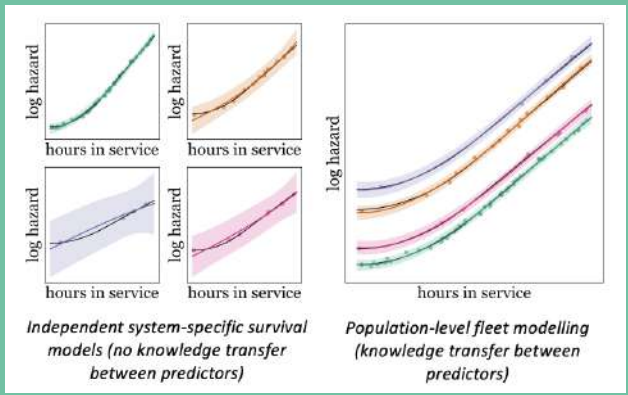
Blog Post

Github

ABOUT

Despite advancements in sensing technologies, fleets of assets are rarely modelled at the population level. This is a missed opportunity to pool data resources for knowledge sharing and to address data gaps that exist with an individual asset.

By constructing digital twins of distributed fleets, Fleet Monitoring delivers enhanced asset management through better performance and efficiency for the entire population.



Independent system-specific survival models (no knowledge transfer between predictors)

Population-level fleet modelling (knowledge transfer between predictors)

Case Studies

Transportation Infrastructure

Fleet Monitoring is collaborating with Scania to support survival analysis and prognostics for their truck fleets, reducing down-time and maintenance costs.

Energy Infrastructure

By sharing data between turbines, Fleet Monitoring can help wind farms improve their power output predictions for reliable performance monitoring and forecasting.

Funding & Partners

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lbull@turing.ac.uk