The association of forwarding speed and distance in mid-Sweden

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Introduction

- Previous studies indicates association between forwarding distance and speed
  - Better strip roads
  - Stress
  - Relatively less time of acceleration and deaccelerations

- New possibilities with data collection
Methods

- Dataset from Manner et al. (2016) was used
- Filtering data
  - Unusual work
  - Measurement errors
  - "Lonely" Observations
- Correlation and regression analysis
Results

Correlation

Pearson’s correlation was moderately strong

Spearman’s correlation was moderately strong
Results

Correlation

Pearson’s correlation was weak

Spearman’s correlation was weak
Results

Correlation

Pearson’s correlation was weak

Spearman’s correlation was weak
Discussion

- Unloaded speed had the strongest association to distance
- Less dominant association for loading speed
- Weak association for loaded speed
- Not possible to conclude why the speed and distance is associated in our data
- Suggestion to include work element specific distances when possible
Reference


