

# Development of A Virtual Environment to Realize Human-Machine Interaction of Forklift Operation

JouhYeong Chew, Ken Okayama, Takashi Okuma, Mitsuru Kawamoto, Hiromu Onda, Norihiko Kato  
National Institute. Adv. Industrial Sc. & Tech., Japan

- A realistic simulator is developed to simulate and investigate forklift operator's know-how
- The real UI of forklift, 3D reconstruction and motion tracking are used for this purpose
- Dynamic Time Warping method is used for temporal evaluation of differences between VE and RE
- Correlation between forklift driving behavior in VE and RE is consistently higher than 0.90

