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## Data based ship motion prediction in offshore operations

- Dec. 2016 – Dec. 2020
- Supervisor: Houxiang Zhang (IHB, NTNU)
- Co-Supervisors: Thor I. Fossen (ITK, NTNU) and Bjørnar Vik (Rolls-Royce)

## Research topics:

- Ship motion prediction
- Time series prediction models and input selection

## Industrial goal:

- Decision support/controller feedback for autonomous vessels
- Fault detection

## Scientific questions:

- How can data from sensors on ships be combined to provide long-term prediction of ship motion?

## Innovations:

- Methods for long-term ship motion prediction leading to improved guidance and navigation of vessels and increased safety at sea