

Abstract 009 – Kongsbert Seatex AS

From: arne.rinnan@kongsberg.com

First Name: Arne

Last Name: Rinnan

Presenter (if different):

Other Authors:

Company: Kongsberg Seatex AS

Address: Pirsenteret

Address Continued:

City: Trondheim

State/Province: Trondheim

Postal Code: 7462

Country: Norway

Email: arne.rinnan@kongsberg.com

Telephone: +47 90578411

Fax:

Presentation Title: Sensor fusion and proximity awareness in DP

Abstract:

Autonomous operations are driving the development of new sensor and connectivity solutions in the maritime domain. The use of digital communication channels, target less sensors and machine learning algorithms are key elements in the proximity awareness of an autonomous ship.

This development is possibly challenging the traditional role and design of DP reference systems. It is also challenging the role of the DP as a sensor integrator.

The paper presents opportunities for sensor integration far beyond the traditional GNSS/INS integration. Methods for combining data from a multi-sensor configuration combining traditional reference systems and target less sensing with advanced picture recognition is discussed. Results from extensive real-life installations are demonstrating some of the features expected to be considered also for future DP operations. Finally, reliability and resilience performance of sensor fusion solutions in a DP context is discussed.