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for the robots consisting in waypoints that should be followed. The Control System comprises the feedback loops that allow the...

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*[PDF] Marine Control Systems Guidance, Navigation, and*

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The basic components of a guidance system are motion sensors, external data like weather data (wind speed and direction, wave height and slope, current speed and

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direction, etc.) and a computer. The computer collects and processes the information, and then feeds the results to the vessel's control system.

## *Marine Control Systems: Guidance, Navigation and Control ...*

This paper describes a navigation system for autonomous underwater vehicles (AUVs) in partially structured environments, such as dams, harbors, marinas, and marine platforms. A mechanically scanned imaging sonar is used to obtain information about the location of vertical planar structures



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present in such environments.  
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Guidance, navigation and control is a branch of engineering dealing with the design of systems to control the movement of vehicles, especially, automobiles, ships, aircraft, and spacecraft. In many cases these functions can be performed by trained humans. However, because of the speed of, for example, a rocket's dynamics, human reaction time is too slow to control this movement. Therefore, systems—now

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almost exclusively digital electronic—are used for such control. Even in cases where

*Guidance, navigation, and control - Wikipedia*

Marine Control Systems

Guidance, Navigation, and Control of Ships, Rigs and Underwater Vehicles [Thor I. Fossen] on Amazon.com.

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*Guidance Marine Home*  
Guidance, Navigation and Control (GNC): Autonomous and intelligent systems, field robots, vehicle dynamics including multi-body systems, marine craft hydrodynamics, vehicle simulators, unmanned vehicles (UAV, AUV, USV), autopilots, trajectory tracking, path-following control. Inertial Navigation Systems (INS): GNSS- and compass-denied navigation, aiding techniques, attitude estimation on  $SO(3)$ , automated situational awareness, sensor fusion and state estimation, nonlinear observer theory ...

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*Thor I. Fossen*  
Thor I. Fossen (2002.),  
Marine Control Systems:  
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Control of Ships, Rigs and  
Underwater Vehicles, Marine  
Cybernetics AS Z. Vukić  
(1989.), Sinteza adaptivnog  
sistema vođenja transportnih  
brodova, FER N. Mišković  
(2010.), Use of self-  
oscillations in guidance and  
control of marine vessels,  
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## *Guidance and Control of Marine Vehicles*

Marine engineering involves  
the design, construction,  
installation, and operation  
of systems and equipment

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that helps to move and control vessels. It also involves systems that make the vessels ...

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This article presents navigation, guidance and control (NGC) experimental results obtained on an innovative overactuated unmanned surface marine vessel (USV) capable of omnidirectional motion. The results were obtained during sea trials in real environmental conditions where external disturbances and sensor characteristics have significant influence on the vehicle behavior.

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*Navigation, guidance and control of an overactuated marine ...*

The Marine Systems Simulator (MSS) is a Matlab/Simulink library for marine systems. It includes models for ships, underwater vehicles, and floating structures. The library also contains guidance, navigation, and control (GNC) blocks for real-time simulation. Please include the following reference when you use the GNC and HYDRO toolboxes:

*GitHub - cybergalactic/MSS: Marine Systems Simulator (MSS)*

Fossen's field of research

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is control theory, computer science, navigation and marine hydrodynamics. He has published more than 500 papers on guidance, navigation and control (GNC), vehicle dynamics, and control systems for ships, underwater vehicles and unmanned vehicles. He has authored three textbooks.

*Thor I. Fossen - Wikipedia*  
Guidance, navigation and motion control systems for autonomous vehicles are increasingly important in land-based, marine and aerial operations. Autonomous underwater vehicles may be used for pipeline inspection, light



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intervention work, underwater survey and collection of oceanographic/biological data.

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*Thor I. Fossen - NTNU*  
Methods for design and implementation of guidance, navigation, and control (GNC) systems for marine craft and aircraft. This includes simulation and testing of motion control systems during failure situations and for varying environmental loads.

*Course - Guidance and Control of Vehicles - TTK4190 - NTNU*

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