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

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

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Thor I. Fossen (2002.),
Marine Control Systems:
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Cybernetics AS Z. Vuki? (1989.), Sinteza adaptivnog sistema vo?enja transportnih brodova, FER N. Miškovi? (2010.), Use of self-oscillations in guidance and control of marine vessels, FER

Guidance and Control of Marine Vehicles

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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.

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

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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 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

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

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