





## ETHICAL MISSION DEFINITION AND EXECUTION FOR MARITIME ROBOTS

- Lethality requires ethical and legal basis, supervised by military teams.
- Effective robot tasking can resemble tactical tasking of humans afloat.
- Careful application of goal constraints makes ethical control feasible.
- Robot missions then complement and extend naval operation orders.
- Semantic Web logic can confirm ethical correctness and completeness.
- Next steps: extend 2 decades of work with realistic scenario testing.

"Ethical constraints on robot mission execution are possible today. There is no need to wait for future developments in Artificial Intelligence (AI). It is a moral imperative that ethical constraints in some form be introduced immediately into the software of all robots that are capable of inflicting unintended or deliberate harm to humans or property." - Robert McGhee, April 2016

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