

# Trusting Web data: a maritime case study

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## SCENARIO

Ship send satellite (AIS) messages to land station.



AIS messages provide static (official identifiers, flag, dimensions, etc.) and dynamic (position) information about the ships.



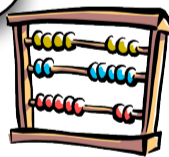
Land radar stations receive messages and send them to computer stations.

Computer stations aggregate incoming AIS messages.

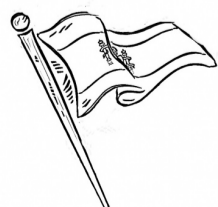
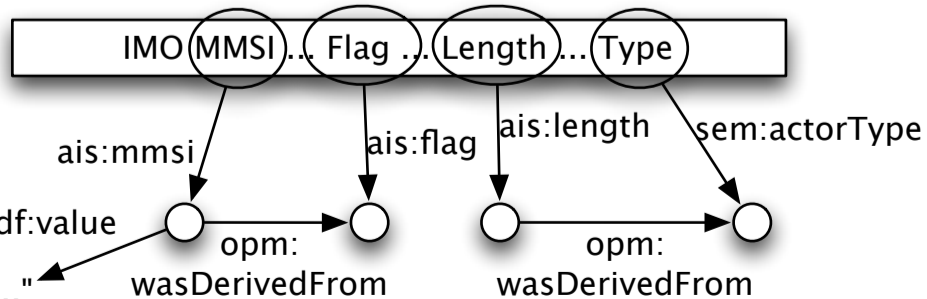


We manage positive/negative evidence count through **Subjective Logic**

Ship ... spotted at ...



Shippers often provide information about sight vessels and descriptions of the ships on the Web.



Can we trust AIS messages?



Considering opinions from different land stations, we can **reduce** their **interference**.



Are the original messages reliable? How can we determine **which message should be trusted**?



Including **Web data** can be a solution.



On the web we can retrieve also provenance information, useful to validate the messages