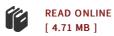# Detection of Subpixel Submerged Mine-Like Targets in Worldview-2 Multispectral Imagery

By Naval Postgraduate School

CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 108 pages. Dimensions: 11.0in. x 8.5in. x 0.2in.The utility of satellite spectral imagery is analyzed for the detection of submerged mine like objects. The targets that were utilized were sub-meter in size and emplaced in the water off the coast of La Jolla, California for a barnacle study. There were three surface targets and three submerged targets that did not exceed three meters in depth. Two meter multispectral and half meter panchromatic WorldView-2 data were used for image processing and analysis. The multispectral data proved more useful than the higher spatial resolution panchromatic data (sub-pixel vs resolved). For the multispectral data, principal component analysis was the most successful of the techniques, locating the submerged and surface targets. Attempts to use the RX-UTD anomaly detector were less successful, because of excessive false positives. This study supports the concept that commercial remote sensing is a viable option to support mine countermeasures. This item ships from La Vergne,TN. Paperback.

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