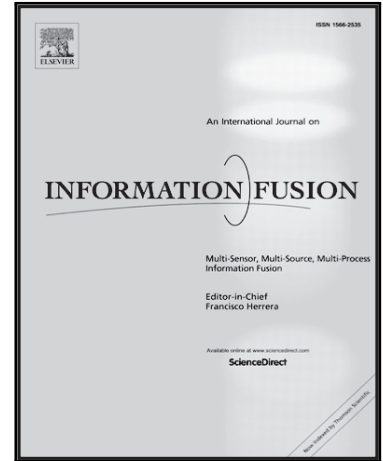


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Deep Learning with Multi-scale Feature Fusion in Remote Sensing for Automatic Oceanic Eddy Detection

Yanling Du , Wei Song , Qi He , Dongmei Huang , Antonio Liotta , Chen Su

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**Highlights**

- DeepEddy detection accuracy reaches  $97.8\pm 1\%$  on our 20000 SAR eddy dataset
- DeepEddy can detect more eddies than the visual interpretation method
- Number of filters and filter size can impact the detection accuracy of eddies
- Block overlap ratio bigger than 0.5 does not impact much the detection accuracy
- Multi-scale feature fusion by Spatial Pyramid improves accuracy of eddy detection

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