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## Information Fusion in Remote Sensing

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### **Abstract**

Information fusion deals with the combination of different sources of information at external (world, scene, image) and internal (image description, scene description) levels. Each of these levels has specific properties and requires its own quality measures and fusion techniques. In this remote sensing application fusion is performed at two levels: at the image level classification results obtained by several classification from one image algorithms are improved; at the image description level classifications from different images are fused to get a more comprehensive result which permits to infer relations between the original images. This information extracted by fusion can be used profitably by other image analysis tasks and/or remote sensing tasks.