

IV. CONCLUSION

Recovery of the road networks using remote sensing of high resolution optical and SAR images has become one of the frequent applications of these images. The areas candidate for road were obtained in this study by surveying multiple feature extraction based on the difference between road pixels as compared to their surroundings and then combining them together in a fuzzy method. The obtained results indicate success of the algorithm in detection of the road areas in comparison with the method of using logical AND operator, as well as insensitivity to the speckle noise. Thereby, an accuracy of 87% was met by a strict accuracy strategy. It is thus possible to contribute to regularization of the road areas by using mathematical morphology functions and applying them on the final image.

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