

method, snakes algorithm is very sensitive to initial position and also noise in the digital number along the road lines which may lead to an inaccurate result.

Chen et al. (2006) used a new method to automatically annotate and conflate satellite imagery with vector datasets. Their approach utilized the knowledge, such as online data sources or road segment direction and road intersections provided by vector data. Therefore, in comparison with our method the problem of finding control points from satellite images eliminated from the conflation process.

The method used in this research as well as the methods mentioned in the above studies has a good accuracy in automatic vector-image conflation. The average value of residual error for the 8 points before the conflation process is 10.514 m and it reduced to 3.539 m after applying the conflation process. In addition, by examining the RMSE error it is possible to determine the basic role of Rubber-Sheeting method in reducing the error rate. So that, as previously mentioned the RMSE error is 11.839 m before conflation process and then decreased to 4.124 m after conflation process. This improvement indicates that the algorithm used for the conflation process is good and efficient.

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