CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 CONCLUSION

This thesis was developed with the objective to implement colour visual cryptography schemes which support both the natural and text images. Another main objective was to enhance the colour visual cryptography schemes and equip them with the ability to verify the shares presented during reconstruction.

The earlier stated objectives were materialized in the form of six different schemes. To cater the first objective three schemes were developed and were presented in chapter 3 which concluded that scheme 3 performs better in terms of share and output quality for both natural and text images than the other two schemes and also the schemes in the literature.

To satisfy the second objective the best out of chapter 3 is used as reference and three modified colour visual cryptography schemes with share authentication were implemented and presented in chapter 4. The inference from chapter 4 was that all the 3 schemes presented are capable of being employed as effective visual cryptography algorithms in applications requiring visual cryptography. It is concluded that Schemes 3, 4, 5 and 6 are better than the schemes in the literature in terms of share and stacked output quality.
6.2 SCOPE FOR FUTURE EXPLORATION

The proposed algorithms can further be modified in the future to expand their application profile. This section in broad strokes gives a hint on two such possibilities.

Literature includes visual cryptography schemes based on general access structure where a minimum no of shares needed to reveal the secret is defined. The 2 out of 2 scheme proposed in this thesis can be extended to general access structure which will enable the colour visual cryptography scheme to be used in an even more wide range of applications.

Region incrementing visual cryptography is another area for which the application range is wide. The schemes proposed in thesis can also be modified to region incrementing visual cryptography which can be used in many applications notably for issuing printed receipts after casting votes during elections, through which the voters can verify their casted votes without disclosing the party for which they have voted.