**CHAPTER 5**

**CONCLUSION**

**5.1. Conclusion**

We have presented the implementation of a technique to Detect PCB errors and classify them via MATLAB. Our technique shows that it is feasible to use the software and detect the errors present in PCB so that further malfunction can be avoided. Its objective is to detect the errors that are present in PCB during Mass Production. It can also be used in small scale like using it in college labs to detect the errors in PCB which engineering students have to make for their courses. We believe that PCB making or production can be increased efficiently and error rates can be reduced significantly by using this software.

**Bibliography**

1. Ibrahim et al., (2011).International Journal of Innovative Management, Information & Production ISME Internationalⓒ2011 ISSN 2185-5439 Volume 3, Number 1, March 2011
2. Ismail Ibrahim, Syed Abdul Rahman, Syed Abu Bakar (2012), Printed circuit board inspection system with defect classification capability, International Journal of Innovative Management, Information & Production(2012)
3. Barbara Zitova and Jan Flusser, Image registration methods: a survey, Elsevier
4. H. Rau and C.H. Wu (2005), Automatic optical inspection for detecting defects on printed circuit board inner layers, International Journal of Advanced Manufacturing Technology, vol.25, no.9-10, and pp.940-946.
5. S. Periaswamy and H. Farid (2006), Medical image registration with partial data, Medical Image AnalysisJournal, vol.10, no.3, pp.452-464.
6. S Jayaraman, S Esakkirajan and T Veerakumar, Digital Image Processing ,TataMCgraw-Hill.
7. Rafael C. Gonzalez, Richard Eugene Woods , Digital Image Processing, Prentice Hall.