

PREFACE

This PhD thesis submitted to JNTUA, Ananthapuramu entitled, “Adaptive Dynamic Genetic Algorithm for Node Scheduling in Time Triggered Systems” contains a detailed presentation on application of Various Optimization methods on Node Scheduling in Time Triggered Systems. With modification in basic genetic algorithm, an Adaptive dynamic algorithm is derived for better optimization. The tool used for simulation purpose is MATLAB, a technical computing language.

The Thesis comprises of simulation results of existing algorithms and proposed algorithm in terms of node allocation and best optimal solution in minimal time. The algorithms have been compared for best solution values and reached to a conclusion that the proposed method yields best optimal solution. A graphical representation at the end shows the comparative results.

This thesis is based on the evaluation carried out during my enrolment as a PhD research Scholar at the JNT University. The documentation comprises of 6 chapters and in addition it contains Table of Contents, Declaration, Acknowledgement, Abstract, References, Index and List of Publications related to Thesis. It is my hope that I have managed to present my work in a logical and comprehensive manner.