

List of Figures

| Fig no | Figure Caption | Page no |
|---------------|--|----------------|
| Fig 4.1 | Gantt Chart | 9 |
| Fig 6.1 | Block diagram | 11 |
| Fig 7.1 | Data Flow Diagram for Projection Profile | 13 |
| Fig 7.2 | Data Flow Diagram for Morphology approach | 14 |
| Fig 7.3 | Data Flow Diagram for Bounding Box approach | 15 |
| Fig 8.1 | Vowels in Kannada script | 16 |
| Fig 8.2 | Consonants in Kannada script | 17 |
| Fig 8.3 | Text Line Components | 17 |
| Fig 10.1 | Original Image with font style BRH Kannada and font size 25 | 25 |
| Fig 10.2 | Grayscale Image | 25 |
| Fig 10.3 | Binary Image | 26 |
| Fig 10.4 | Image after erosion | 26 |
| Fig 10.5 | Image after dilation | 27 |
| Fig 10.6 | Detected Lines | 27 |
| Fig 10.7 | Extracted Line | 27 |
| Fig 10.8 | Original Image with font style BRH kailasam and font size 20 | 28 |
| Fig 10.9 | Detected Lines | 29 |
| Fig 10.10 | Extracted Line | 29 |

| | | |
|-----------|--|----|
| Fig 10.11 | Original Image with font style BRH Srigandha and font size 18 | 30 |
| Fig 10.12 | Detected lines | 31 |
| Fig 10.13 | Extracted line | 31 |
| Fig 10.14 | Original Image with font style BRH Amerikannada and font size 16 | 32 |
| Fig 10.15 | GrayScale Image | 33 |
| Fig 10.16 | Binary Image | 34 |
| Fig 10.17 | Horizontal Projection Profile | 34 |
| Fig 10.18 | Detected lines | 35 |
| Fig 10.19 | Extracted line | 35 |
| Fig 10.20 | Original Image with font style BRH Kannada and font size 22 | 36 |
| Fig 10.21 | Detected lines | 37 |
| Fig 10.22 | Extracted line | 37 |
| Fig 10.23 | Original Image with font style BRH Srigandha and font size 28 | 38 |
| Fig 10.24 | Detected lines | 39 |
| Fig 10.25 | Extracted line | 39 |
| Fig 10.26 | Original Image with font style BRH Amerikannada and font size 26 | 40 |
| Fig 10.27 | Gray Scale Image | 41 |
| Fig 10.28 | Extracted Line | 41 |

| | | |
|-----------|--|----|
| Fig 10.29 | Original Image with font style BRH Srigandha and font size 25 | 42 |
| Fig 10.30 | Extracted line | 42 |
| Fig 10.31 | Original Image with font style BRH Vijaya and font size 15 | 43 |
| Fig 10.32 | Extracted line | 43 |

List of Table

| Table No | Table Caption | Page no |
|-----------------|--|----------------|
| Table 9.1 | Comparison of the results of the proposed method with existing method for line segmentation | 24 |