

## DAFTAR ISI

|                                                                   |             |
|-------------------------------------------------------------------|-------------|
| <b>HALAMAN PENGESAHAN PEMBIMBING .....</b>                        | <b>ii</b>   |
| <b>HALAMAN PENGESAHAN PENGUJI.....</b>                            | <b>iii</b>  |
| <b>SURAT PERNYATAAN KARYA ASLI TUGAS AKHIR .....</b>              | <b>iv</b>   |
| <b>PERNYATAAN BEBAS PLAGIASI.....</b>                             | <b>v</b>    |
| <b>ABSTRAK.....</b>                                               | <b>vi</b>   |
| <b><i>ABSTRACT</i>.....</b>                                       | <b>vii</b>  |
| <b>KATA PENGANTAR .....</b>                                       | <b>viii</b> |
| <b>DAFTAR ISI .....</b>                                           | <b>ix</b>   |
| <b>DAFTAR TABEL .....</b>                                         | <b>xi</b>   |
| <b>DAFTAR GAMBAR .....</b>                                        | <b>xii</b>  |
| <b>BAB I PENDAHULUAN .....</b>                                    | <b>1</b>    |
| 1.1    Latar Belakang.....                                        | 1           |
| 1.2    Rumusan Masalah .....                                      | 2           |
| 1.3    Batasan Masalah .....                                      | 2           |
| 1.4    Tujuan Penelitian.....                                     | 3           |
| 1.5    Manfaat Penelitian.....                                    | 3           |
| 1.6    Metodologi Penelitian dan Pengembangan Sistem .....        | 3           |
| 1.7    Sistematika Penulisan.....                                 | 4           |
| <b>BAB II TINJAUAN LITERATUR .....</b>                            | <b>5</b>    |
| 2.1    Tinjauan Literatur.....                                    | 5           |
| 2.1.1    Tumpahan Minyak.....                                     | 5           |
| 2.1.2    Aplikasi.....                                            | 5           |
| 2.1.3    MODIS .....                                              | 6           |
| 2.1.4 <i>Thresholding Optimal</i> .....                           | 7           |
| 2.1.5 <i>Preprocessing</i> .....                                  | 10          |
| 2.1.6 <i>Precision</i> .....                                      | 10          |
| 2.1.7 <i>Recall</i> .....                                         | 11          |
| 2.2 <i>State of The Art</i> .....                                 | 12          |
| <b>BAB III METODOLOGI PENELITIAN DAN PENGEMBANGAN SISTEM.....</b> | <b>14</b>   |
| 3.1    Metodologi Penelitian .....                                | 14          |
| 3.2    Metode Pengembangan Sistem.....                            | 15          |
| 3.2.1    Requirement Analysis .....                               | 16          |

|                                                        |           |
|--------------------------------------------------------|-----------|
| 3.2.2 System and Software Design.....                  | 17        |
| 3.2.3 Implementation.....                              | 27        |
| 3.2.4 System Testing .....                             | 27        |
| <b>BAB IV HASIL PENGUJIAN DAN PEMBAHASAN.....</b>      | <b>28</b> |
| 4.1 Hasil.....                                         | 28        |
| 4.1.1 Hasil Pengumpulan Data .....                     | 28        |
| 4.1.2 Hasil Preprocessing Data.....                    | 28        |
| 4.1.3 Hasil Pengembangan Model Thresholding Otsu ..... | 30        |
| 4.1.4 Hasil Pengujian.....                             | 31        |
| 4.2 Pembahasan .....                                   | 36        |
| <b>BAB V PENUTUP .....</b>                             | <b>37</b> |
| 5.1 Kesimpulan.....                                    | 37        |
| 5.2 Saran .....                                        | 37        |
| <b>DAFTAR PUSTAKA .....</b>                            | <b>39</b> |