

LAMPIRAN



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN
RISET DAN TEKNOLOGI
POLITEKNIK NEGERI MALANG
JURUSAN TEKNOLOGI INFORMASI
PROGRAM STUDI TEKNIK INFORMATIKA
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No. Skripsi : 647

FORM VERIFIKASI

ABSTRAK BAHASA INGGRIS DAN TATA TULIS BUKU LAPORAN SKRIPSI

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Judul : Sistem Pengambilan Keputusan Komando dan Kendali Pasukan dalam
Operasi Militer Menggunakan Kecerdasan Artifisial Kognitif Knowledge
Growing System

| NO | BAGIAN YANG DIVERIFIKASI | NAMA VERIFIKATOR | TANGGAL VERIFIKASI | TTD |
|----|---------------------------------|---|-----------------------|-----|
| 1 | Abstrak Berbahasa Inggris | Farida Ulfa, S. Pd., M. Pd. | 12 September 2021 | |
| 2 | Tata Tulis Buku Laporan Skripsi | Kolonel Lek. Dr. Ir. Arwin Datumaya Wahyudi Sumari, S.T., M.T., IPM., ASEAN Eng., ACPE | 27 Juli 2021 | |

Lampiran 1 *Source Code* Perhitungan Binary

```
$winter = $item['angin_penghujan'];
    $windPanca = $item['angin_pancaroba'];
    $windDry = $item['angin_kemarau'];
    $windAvg = $item['angin_rerata'];

    if ($winter === $this->nil && $windAvg === $this-
>calm) {
        $anpeng = 1;
    }
    if ($winter === $this->nil && $windAvg === $this-
>nil) {
        $anpeng = 1;
    }
    if ($winter === $this->wind || $winter == $this-
>calm || $winter < $this->wind) {
        $anpeng = 1;
    }else {
        $anpeng = 0;
    }
    if ($winter === $this->nil && $windAvg !== $this-
>nil) {
        if ($windAvg < $this->wind || $winter ===
$this->wind) {
            $anpeng = 1;
        }else {
            $anpeng = 0;
        }
    }
}
```

Lampiran 2 Source Code Perhitungan KGS ASSA2010

```
public function binaryMainMenu($id, $info) {
    $data = [
        'page' => 'Cuaca',
        'data' => $this->Cuaca_Model-
>_showMainSecond($id, $info),
    ];

    foreach ($data['data'] as $item) {
        $rute = $item['perjalanan_id'];
        $ket = $item['perjalanan_ket'];
        $nnul = 0;
        $chgs = array(
            'status' => 3 //success done
        );
        $this->db->where('id_cuaca', $item['id_cuaca']);
        $this->db->update('cuaca', $chgs);

        $isWind = $item['angin_penghujan'] +
        $item['angin_pancaroba'] +
            $item['angin_kemarau'];
        $isBright = $item['awan_penghujan'] +
        $item['awan_pancaroba'] +
            $item['awan_kemarau'];
        $isRainy = $item['hujan_penghujan'] +
        $item['hujan_pancaroba'] +
            $item['hujan_kemarau'];
        $isTemp = $item['temperatur_penghujan'] +
        $item['temperatur_pancaroba'] +
            $item['temperatur_kemarau'];
        $isVisiby = $item['visibility_penghujan'] +
        $item['visibility_pancaroba'] +
            $item['visibility_kemarau'];
    }
}
```

```

/*calculation C = count data to limit */
$isCWind = number_format(1/ $isWind, 3);
$isCBright = number_format(1/ $isBright, 3);
$isCRain = number_format(1/ $isRainy, 3);
$isCTemp = number_format(1/ $isTemp, 3);
$isCVisib = number_format(1/ $isVisiby, 3);

```

Lampiran 3 *Source Code* Perhitungan Fusi

```

if ($item['perjalanan_ket'] == 'ts') {
    $istWeatherRain = $item['angin_penghujan'] +
$item['awan_penghujan'] +
    $item['hujan_penghujan'] +
$item['temperatur_penghujan'] +
    $item['visibility_penghujan'];

    $istTransition = $item['angin_pancaroba'] +
$item['awan_pancaroba'] +
    $item['hujan_pancaroba'] +
$item['temperatur_pancaroba'] +
    $item['visibility_pancaroba'];

    $istWeatherDry = $item['angin_kemarau'] +
$item['awan_kemarau'] +
    $item['hujan_kemarau'] +
$item['temperatur_kemarau'] +
    $item['visibility_kemarau'];

    $addFusiTransit = array(
        'perjalanan_id' => $rute,
        'penghujan' => $istWeatherRain / 5,
        'pancaroba' => $istTransition / 5,
        'kemarau' => $istWeatherDry / 5,

```

```

        );
        $this->Cuaca_Model-
>_fusiInsertModel($addFusiTransit);
    }
    if ($item['perjalanan_ket'] == 'go') {
        $isgWeatherRain = $item['angin_penghujan'] +
$item['awan_penghujan'] +
        $item['hujan_penghujan'] +
$item['temperatur_penghujan'] +
        $item['visibility_penghujan'];
        $isgTransition = $item['angin_pancaroba'] +
$item['awan_pancaroba'] +
        $item['hujan_pancaroba'] +
$item['temperatur_pancaroba'] +
        $item['visibility_pancaroba'];
        $isgWeatherDry = $item['angin_kemarau'] +
$item['awan_kemarau'] +
        $item['hujan_kemarau'] +
$item['temperatur_kemarau'] +
        $item['visibility_kemarau'];
        $addFusiGo = array(
            'perjalanan_id' => $rute,
            'penghujan' => $isgWeatherRain / 5,
            'pancaroba' => $isgTransition / 5,
            'kemarau' => $isgWeatherDry / 5,
            'keterangan' => 'DP',
            'status' => '20' //FUSI DP
        );
        $this->Cuaca_Model-

```

Lampiran 4 *Source Code* Perhitungan Penggabungan Variabel

```
    for ($i=0; $i < count($data['medan']); $i++) {
        $array = array(
            $data['data'][$i]['perjalanan_id'],
            ($data['medan'][$i]['m1']           +
            $data['data'][$i]['penghujan'])/ 2,
            ($data['medan'][$i]['m2']           +
            $data['data'][$i]['pancaroba'])/ 2,
            ($data['medan'][$i]['m3']           +
            $data['data'][$i]['kemarau'])/ 2,
        );
        // $array = $data['musuh'];
        array_push($palang, $array);
    }
    for ($i=0; $i < count($data['musuh']); $i++) {
        // print_r($data['musuh'][$i]);
        // print_r($palang[$i]['1']);
        $push = array(
            $data['musuh'][$i]['keterangan'],
            $data['musuh'][$i]['darat'],
            $data['musuh'][$i]['laut'],
            $data['musuh'][$i]['udara'],
        );
        array_push($paya, $push);
    }

    // echo "<prev>";
    // print_r(array_merge($palang, $data['musuh']));
```

BIODATA



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