

DAFTAR ISI

LEMBAR PERSETUJUAN	2
LEMBAR PENGESAHAN	3
LEMBAR PERNYATAAN	4
KATA PENGANTAR	5
DAFTAR ISI	6
DAFTAR GAMBAR	7
DAFTAR TABEL	8
DAFTAR LAMPIRAN	9
Abstrak	Error! Bookmark not defined.
1.PENDAHULUAN	Error! Bookmark not defined.
2.METODE PENELITIAN	Error! Bookmark not defined.
2.1 <i>Data Acquisition</i>	Error! Bookmark not defined.
2.2 Augmentasi Data	Error! Bookmark not defined.
2.3 <i>Data Preparation</i>	Error! Bookmark not defined.
2.4 <i>Modeling</i>	Error! Bookmark not defined.
2.4.1. <i>Convolutional layer</i>	Error! Bookmark not defined.
2.4.2. <i>Pooling Layer</i>	Error! Bookmark not defined.
2.4.3. <i>Fully Connected Layer</i>	Error! Bookmark not defined.
2.5 Pelatihan Model	Error! Bookmark not defined.
2.6 Pengujian dan Evaluasi Model	Error! Bookmark not defined.
3.HASIL DAN PEMBAHASAN	Error! Bookmark not defined.
3.1. Hasil <i>Data Acquisition</i>	Error! Bookmark not defined.
3.2. Hasil Augmentasi Data	Error! Bookmark not defined.
3.3. Hasil <i>Data Preparation</i>	Error! Bookmark not defined.
3.4. Pemodelan <i>Convolution Neural Network (CNN)</i>	Error! Bookmark not defined.
3.5. Pengujian dan Evaluasi Model	Error! Bookmark not defined.
4.KESIMPULAN	Error! Bookmark not defined.
5.REFERENSI	Error! Bookmark not defined.

DAFTAR GAMBAR

Gambar 1. Tahapan Penelitian	3
Gambar 2. Augmentasi Data Terhadap Citra	3
Gambar 3. Membagi data Training	4
Gambar 4. Membagi data Validation	4
Gambar 5. Arsitektur Model CNN	4
Gambar 6. Konvolusi Neural Network	4
Gambar 7. Average Pooling	4
Gambar 8. Proses CNN	5
Gambar 9. Model CNN	5
Gambar 10. Model Summary	5
Gambar 11. Compile Model	5
Gambar 12. Training Model	6
Gambar 13. Data yang telah diaugmentasi : (a) Normal; (b) Flip vertical; (c) Flip horizontal; (d) Rescale; (e) Rotation right; (f) Rotation left	7
Gambar 14. Hasil dari Split data Training dan data Validation	7
Gambar 15. (a) Defect paint fouling ; (b) Defect paint sagging ; (c) Defect paint scratch ; (d) Defect paint dust ; (e) Defect paint bubble ; (f) Defect paint pinhole; (g) Defect paint shrink	8
Gambar 16 Compile Model	8
Gambar 17. Nilai dari Training dan Validation loss	9
Gambar 18. Nilai dari Training dan Validation loss	9
Gambar 19. Nilai dari Training dan Validation Accuracy	9
Gambar 20. Downloading data ResNet50	9
Gambar 21. Training dan Validation Accuracy menggunakan Transfer learning ResNet 50	9
Gambar 22. Training dan Validation Loss menggunakan Transfer learning ResNet 50	10
Gambar 23. Hasil evaluasi Cofusion Matrix dengan ResNet50	10
Gambar 24. Defect fouling	10
Gambar 25. Defect scratch	10
Gambar 26. Defect Dust	10
Gambar 27. Defect sagging	11
Gambar 28 Cat Normal	11

DAFTAR TABEL

Tabel 1. Arsitektur model CNN yang digunakan.....	8
--	---



DAFTAR LAMPIRAN

Lampiran 1. Letter of Acceptance	13
Lampiran 2. Sertifikat Jurnal	14
Lampiran 3. Bukti Submit di Website	14
Lampiran 4. Code Program	15
Lampiran 5. Hasil Turnitin	16



