

Bab VI

Kesimpulan dan Saran

6.1 Kesimpulan

Berdasarkan atas hasil analisis, implementasi pelatihan, dan pengujian yang dilakukan penulis, dapat ditarik sebuah kesimpulan bahwa sistem identifikasi waktu kawin ternak babi dengan alihragam Haar *Wavelet* dan jaringan syaraf tiruan *backpropagation* telah berhasil dibangun. Perangkat lunak Wakateba berhasil mengidentifikasi waktu kawin ternak babi berdasarkan citra yang diunggah.

Penelitian yang telah dilakukan telah mendapatkan parameter yang optimal dengan rincian sebagai berikut:

- a. Pelatihan memperoleh hasil yang optimal menggunakan *leaning rate* sebesar 0,1 dengan jumlah *epoch* sebanyak 696 dengan waktu 3 menit.
- b. Pengujian memperoleh akurasi sebesar 100% bahkan dengan data uji yang telah ditambahkan *noise*.

6.2 Saran

Pada hasil pengujian yang telah dilakukan terdapat beberapa hal yang masih terasa kurang untuk menyempurnakan sistem. Saran yang dapat penulis berikan untuk pengembangan lebih lanjut terhadap sistem Wakateba ialah penambahan fungsionalitas segmentasi otomatis agar sistem berjalan dengan lebih efisien.

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