

Use of Artificial Neural Networks in the classification of damage in sunflower seed

Antonio Mendes Magalhães Junior¹, Paula Ribeiro Santos², Thelma Sáfadi³

Artificial Neural Networks are effective at recognizing patterns and classifying data. This work aimed to classify radiographs of sunflower seeds as to their damage. The average hit rate of the network was 74.5%. The approach can be used for seed analysis, given the level of accuracy.

Keywords: X-ray analysis; seeds analysis; pattern recognition.

¹ MSc student in statistics, UFLA, Brazil. email: jrjpmg@hotmail.com.

² MSc student in statistics, UFLA, Brazil. email: paullasant_s@hotmail.com.

³ Department of Statistics, UFLA, Brazil. email: safadi@ufla.br.