

Deep learning application in classifying meat freshness from images

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Abstract: In the practice of consumer health management and protection, ensuring meat freshness is a critical requirement. This study focuses on developing a deep learning-based system for automatically classifying meat freshness from images. The research objective is to address the problem of accurately and quickly determining meat freshness through thoroughly trained image features. The method employs a deep learning model combined with image preprocessing technologies to optimize classification performance. The expected results will significantly contribute to improving the quality of control and ensuring food safety, while supporting the sustainable development of the meat processing industry.

Keywords: Deep learning, Freshness classification, Meat, Image