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## Digital Image Processing Technology and Its Role in Veterinary Science

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**Abstract** Recently, digital image technology has played an important role in many aspects of human life including scanning and X-Rays which are often used in human and veterinary medicine. With the technology, the scanning result can be produced by not only the photographic film but also the digital image file. This offers many advantages: cost reduction, high efficiency and accuracy, reduction in human effort in analyzing scanned image. The author hereby wrote this article to suggest some appropriated ways to apply such digital image technology—which is composed of image processing technology, computer vision technology, and computer graphics technology—to use in veterinary medicine which was explained in three main aspects: 1. Measurement and evaluation for research and experiment, 2. Diagnosis of diseases and symptoms in animals, and 3. Study of the behavior of animals. Each topic was discussed in detail with strong references in the field of computer vision and digital image processing. Also, the author reasonably predicted the future trend of the digital image technology for veterinary sciences. This article is written in order to offer some knowledge to veterinary scientists and researchers so that they can keep up with the rapidly growing of computer technology and know well how to take advantage of it and profiton veterinary sciences.

**Keyword:** Computer Vision, Digital Image, Computer Graphics, Veterinary Medicine

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