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**ABSTRACT**

**Title: Deep learning in dentistry**

Deep learning is a subtype of artificial intelligence that teaches computers to learn by example. These models are multilayer artificial neural networks, loosely inspired by biologic neural systems.

The diagnostic accuracy of deep learning algorithms in the medical and dental field is approaching levels of human expertise, changing the role of computer assisted diagnosis from a second opinion tool to a more collaborative one.

Conventional neural networks (CNN) is one of the most successful machine learning algorithms for object recognition where the number of data remains the key factor in the success of object detection. Image enhancement, image segmentation, object classification is successfully implemented by CNN thereby producing valuable output that facilitates dentists in diagnosis and treatment planning.

This paper throws light on what is deep learning and the basics of how it functions, it’s applications in various fields of dentistry and the advantages and disadvantages of artificial intelligence in the field of dentistry.