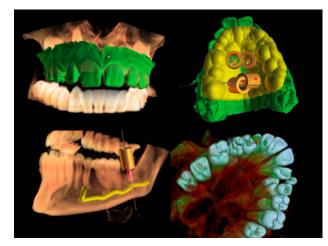


Artificial intelligence (AI) in orthodontics is one of the latest and most recent innovations that new digital technologies have produced, and it is revolutionizing the orthodontic world. Artificial intelligence finds application especially in the diagnostic field.



First of all, it made the matching between stl files coming from the intraoral scan and dicom files derived from the cbct easier and more immediate, a process that used to be long and complex.

Furthermore, AI allows the automatic identification of delicate anatomical structures, such as the inferior alveolar nerve, a procedure which is applied when surgical guides for miniscrews in the buccal shelf areas must be created.

BlueSkyPlan

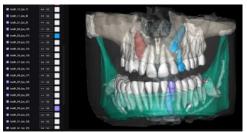
Algorithms have been developed to **automatically** identify the landmarks of the cephalometric analysis, making the diagnostic process much simpler, quicker and also allowing the creation of tracing superimposition in a few seconds.



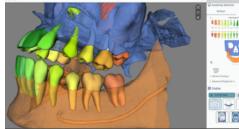
WebCeph: A.I. Web-based Orthodontic & Orthognathic Platform

Finally, artificial intelligence allows to create a **segmentation** of bone and dental structures starting from the **Dicom** data of the **CBCT** and obtaining segmented files in STL format. This process often required a lot of time and resources, but today it can be carried out in a short time at low costs.

Some of the software for segmentation

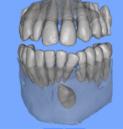


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