



LECTURE ABSTRACT

“Anatomical Photogrammetry and Its Use In Post-Pandemic Teaching”

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Photogrammetry, a process known for more than a century, is used to study the shape in the most precise way and locate it with its three dimensions in space. That is to say, it shows us the objects and structures from their three sides, in their three dimensions.

With the arrival of the digitalization of information, photogrammetry has a great advance and its use expands to many other disciplines of science; thus reaching the anatomy.

By capturing multiple images of the anatomical material we use in teaching in such a way that the frames overlap each other on all four sides; Trying to obtain images of all the parts of the preparation to later process them, using software that searches for coincident points, a new image is created structured by the sum of all the photos that have been taken of the preparation.

In this way, we have a virtual 3D object on our computer; which we can not only visualize and manipulate, but also keep it in cyberspace and share it so that other users can use it.

In the midst of our research, the pandemic invaded us; a fact that, worldwide, forced us to close our laboratories. Teaching anatomy remotely, without the cadaver, was a challenge that forced us to prepare 3D material of our most emblematic anatomical pieces, to show them to the students. And, in this way, teaching with the corpse in a virtual way, through a work project that we call the "Amphitheater at home". In this way, we believe that a new field has been opened to support the teaching of anatomy, in the post-pandemic.

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