

Complementary

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Digital Optical Biopsy of the Retina. (Pixelometria Cuantica)

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“When it seems diminished the possibilities of new molecules to unravel the mysteries of life and death, a new physical design as sequential core of the dynamic structures arises: The Pixel”

The geometry of the pixels denotes a certain combination of euclidian and two-dimensional elliptical, especially with options 3 D allowed in the construction scheme geométric Riemannian, and the stocks of subpixels (red, green and blue) dead pixels and stuck, expressing where color and resolution monitors have reached almost improbable geometric expressions, graphics cards such as the S3, NVIDIA, or ATI among others., giving the opportunity to overcome infinitely genome combination possibilities of identification, in this case with 16.8 million colors. (32 bits). The QRS, the old fingerprint, facial detectors FBT face detection, bar codes, different forms of interferometry and spectrometric, have led to the possibility of using non-invasive methods of identity uncalculated limits or different particles [1].

We used the pixelometric new non-Euclidean geometry described, about the pixel, as measurement converter, density, metric, shapes, etc. The group of experts JPG (Joint Photographic Experts Group), have advanced significantly to the compression of images, both color and grayscale high quality) form, giving the fabulous figure of 16,000,000 colors in the save's images. The pixeloarquitectura that information across multiple cuts allows us to acquire of optical coherence tomography of retina, the structure of a cell or a protein, focal and morphologically ready.

Is the world of pixels identified by images square, hexagonal, rectangular, round, dead, etc., ie no information propia? No morphology forgets that the image (pixel), decoded, it is morphology pure. Quantum computing is a computing paradigm different from classical computing. It is based on the use of qubits instead of bits and gives rise to new logic gates that make possible new algorithms. In the digital computing, a bit can take only two values: 0 or 1. However, in quantum computing, involving the laws of quantum

mechanics, and the particle can be in coherent superposition: can be 0, 1 and can be 0 and 1 at a time (a two orthogonal states subatomic particle). This allows you to perform several operations at once, depending on the number of qubits [2-4].

The number of qubits indicates the number of bits that can be in superposition. With conventional bits, if we had a record of three bits, there were eight possible values and the registry only could take one of those values. But if we have a vector three qubits, the particle can take eight different values simultaneously due to quantum superposition. Thus, a three qubits vector allow a total of eight parallel operations. As expected, the number of operations is exponential with respect to the number of qubits [5-7].

However, the possibility of storing their own information, a unit, which is the pixel, makes it more accurate, dynamic and reliable. Quantum physics is the physics of the possibilities of change, management of unified fields of the four forces: gravity, electromagnetism and the strong and weak force of the atomic nucleus.

Einstein suggested in his theories, the existence of a field holding space-time transformations and mass - energy. This field is the pixel. In the different photos that we show, can be seen digital secuentionation of the retina tissue, detection technique based in sequencing images, obtained in our Digital Laboratory (Maimonides University) (Figures 1-7) [8,9].

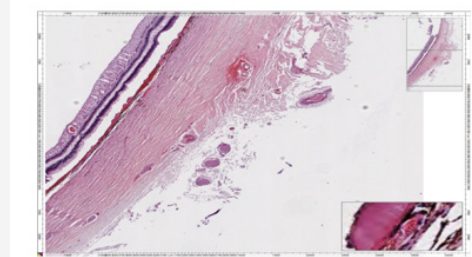


Figure 1

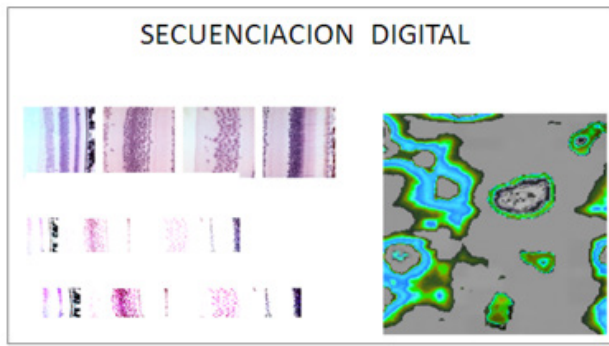


Figure 2: Secuenciacion Digital.

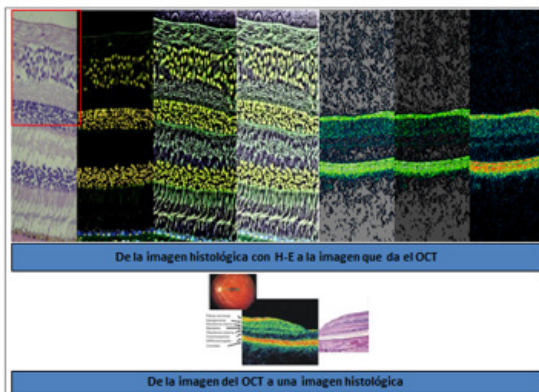


Figure 3: From the histological image with H-E to the image given by the OCT. From the Image of the OCT to a histological image.

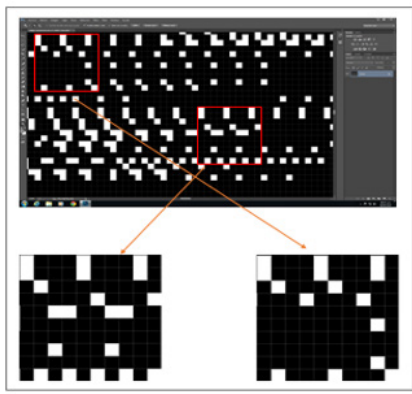


Figure 4: The pixel morphology.

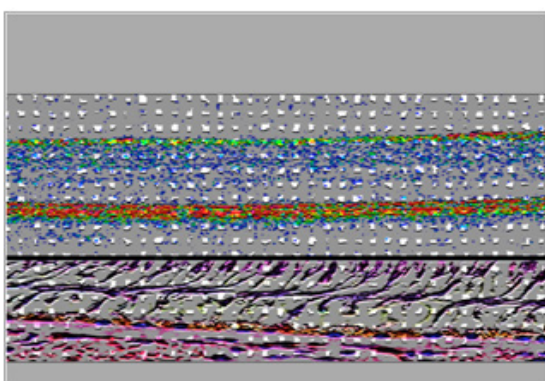


Figure 5: Retinal pixel morphology Original

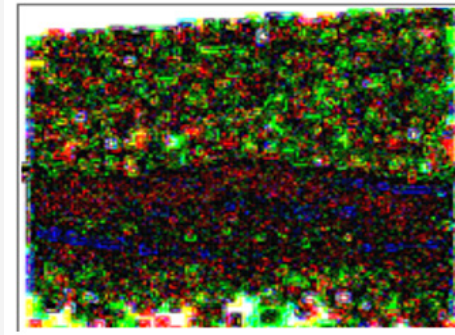


Figure 6: Panoramic aspects of digital retinal capture. With different retinal layers (physical concept with píxel unit).

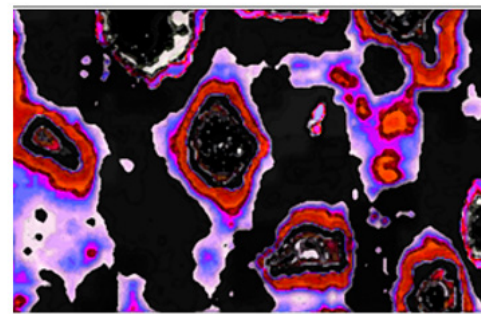


Figure 7: In de right we can see the physical aspects of pigimentary epithelium of retina. Original capture in our laboratory of Digital Pathology in Maimonides University.

- The basics of different methods of detection are:
- Chemical for Haematoxilin and eosin
- Immunological in Immunohistochemical tecquics
- Resolutive expectative, for the transmission electronic microscopy
- And Pixel in digital capture detection.

Acknowledgment

None.

Conflicts of Interest

No conflicts of interest.

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