

**FOCUS SERIES**

*Series Editor Imad Saleh*

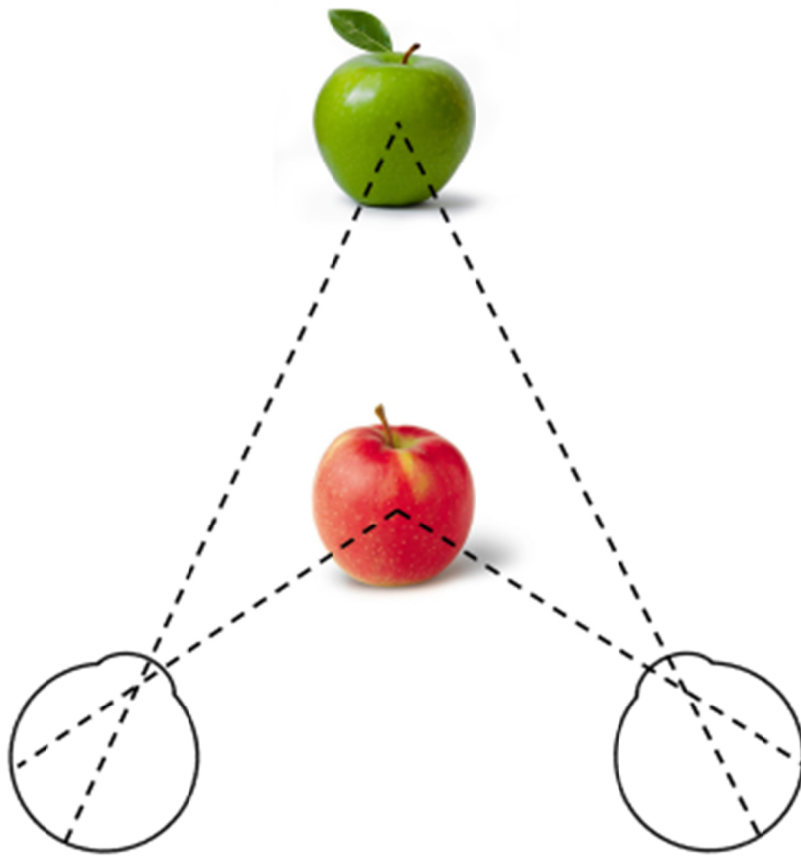
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# **Eyestrain Reduction in Stereoscopy**

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Laure Leroy

**Color section**



*Figure 1.11. When we focus on the green apple, the projections of the image of the red apple (which is nearer) form a more obtuse angle than the projections of the image of the green apple.*



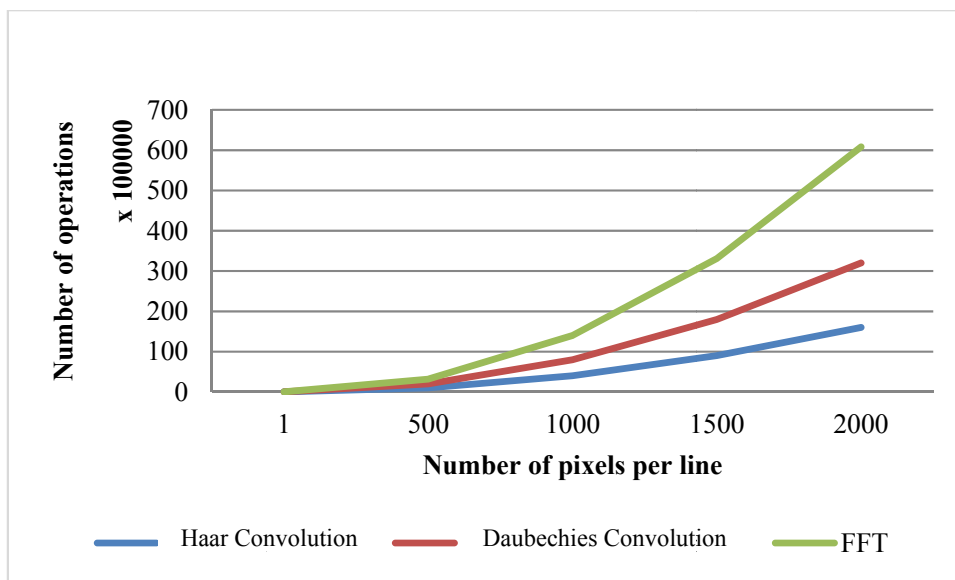
Ease of accommodation

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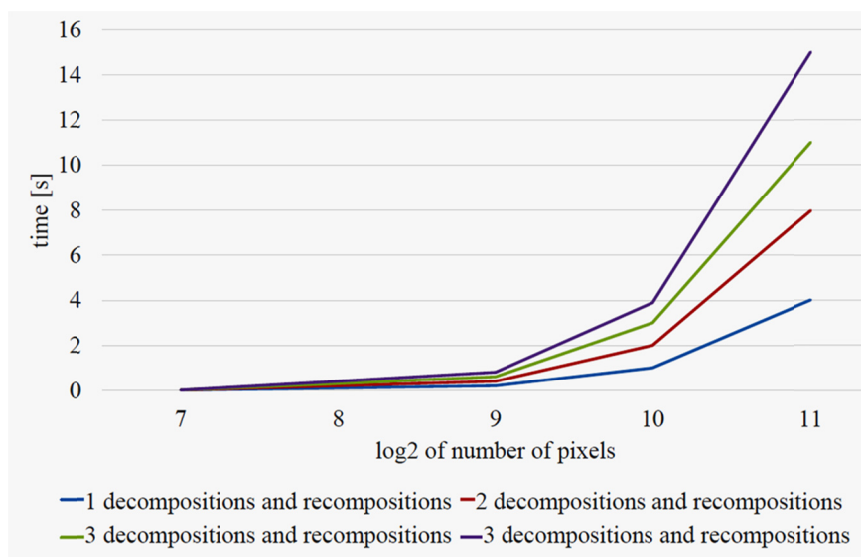
Speed with which accommodation  
moves from the clear green apple to  
the clear red apple



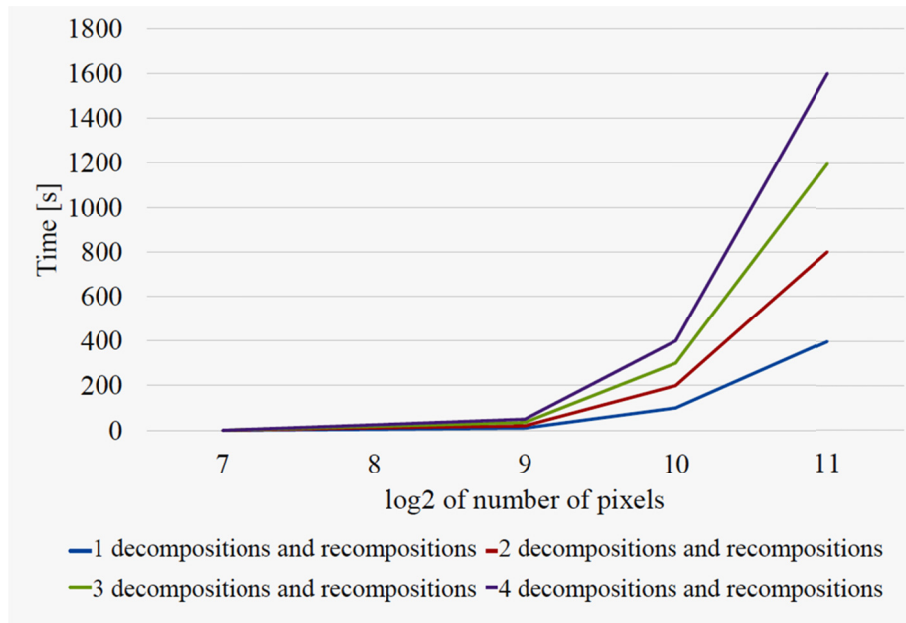
Figure 4.1. *Ease of accommodation.*



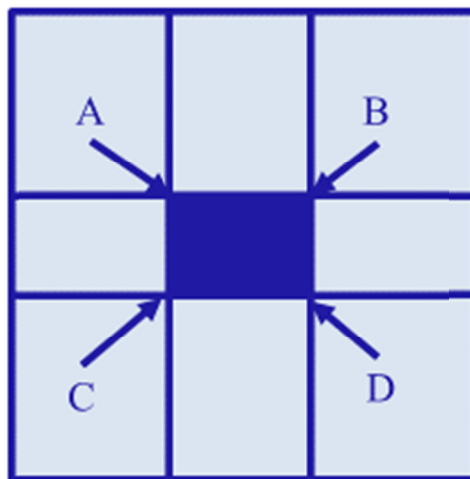
**Figure 6.15.** Theoretical comparison between the number of operations for a FFT product and for a convolution.



**Figure 6.16.** Decomposition and recomposition time for the convolution.



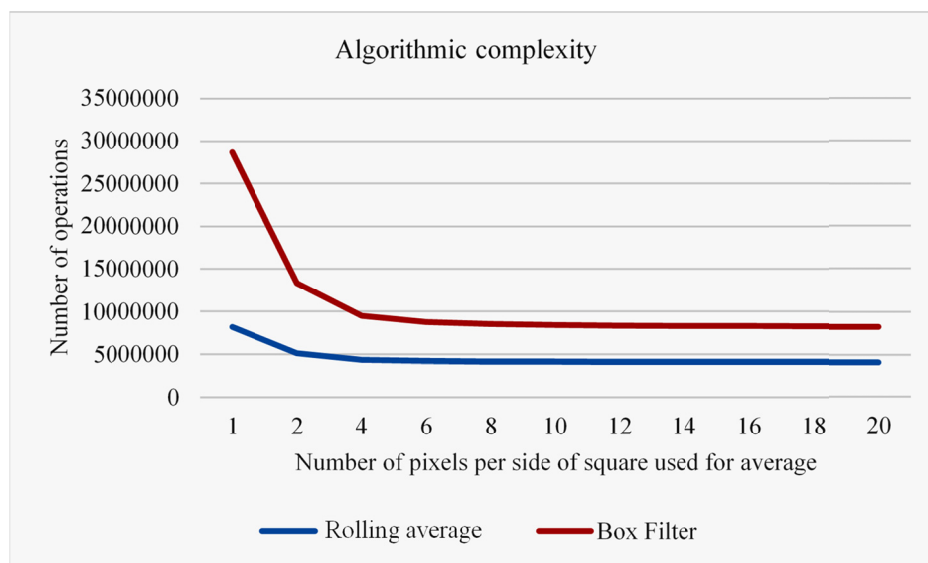
**Figure 6.17.** *Decomposition and recombination time with the Fourier transform.*



**Figure 6.20.** *Representation of the points to be summed for BOX FILTER.*

1	2	3	4
2	7	9	11
3	9	12	18
4	11	15	22

**Figure 6.21.** Representation of the summation process in BOX FILTER 1.



**Figure 6.36.** Complexity of BOX FILTER and averages in relation to size of calculation square for a  $1,024 \times 1,024$  image.

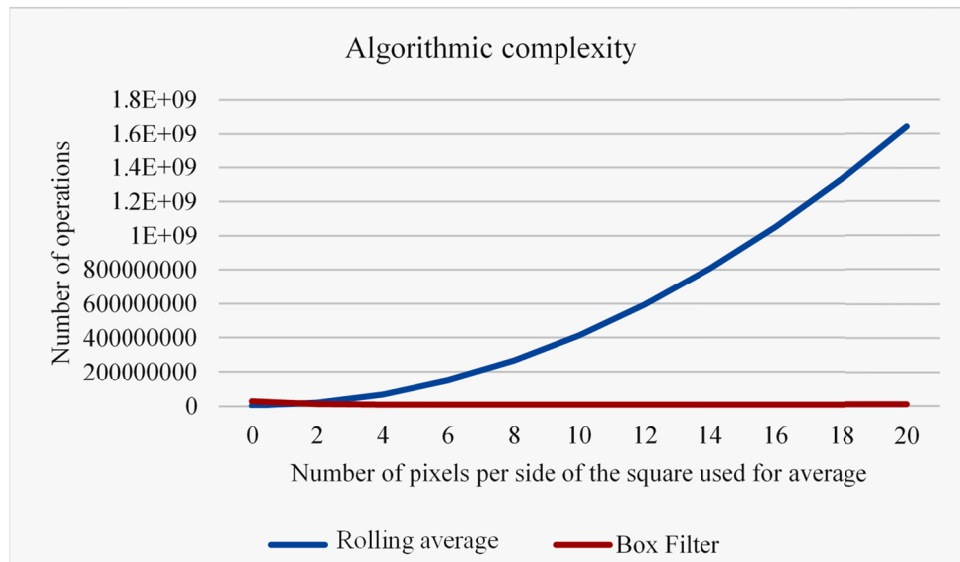


Figure 6.37. Complexity for rolling BOX FILTER and rolling averages as a function of the size of the calculation square for a  $1,024 \times 1,024$  image.

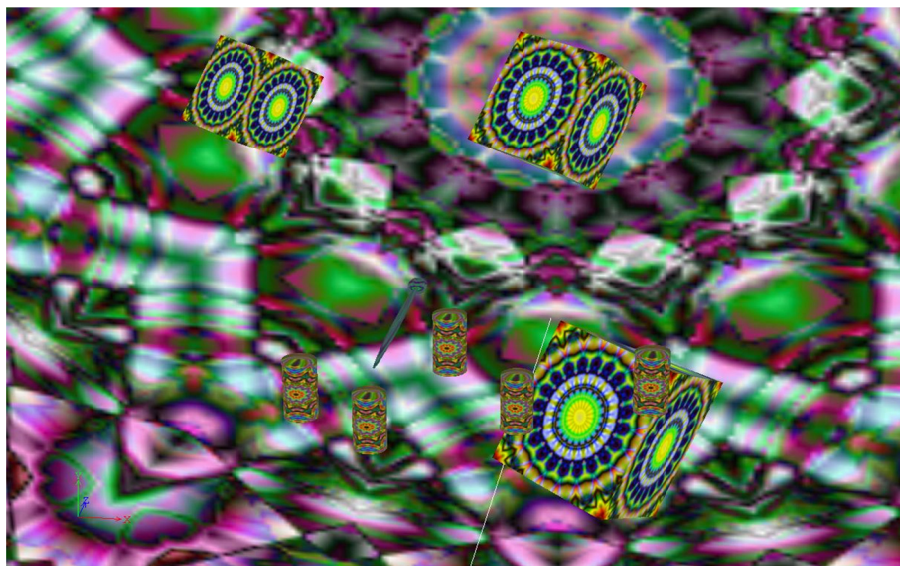


Figure 6.43. The virtual world.



Figure 6.45. Subject performing the non-blurred task.