Digital holography is a widespread technique allowing dynamic wave front control, with many applications such as beam steering and shaping, adaptive optics, optical interconnections and holographic optical tweezers, among others. The student will learn how to compute a digital hologram, encode it in a limited diffractive element and optically reconstruct it. This subject is mainly experimental and it is essentially held in the computer room and in the Laboratory.
At the end of the term the students should give an oral presentation and prepare a dissertation about a practical work developed during the course, which includes the development of a modern hologram encoding method and its optical reconstruction. This is about 75% of the evaluation.

They should also write down short reports on the practical sessions (about 25% of the evaluation).

The usual in University teaching
Bibliografía

Complementaria:


