

**LAPHIA**

Laser & Photonics  
in Aquitaine

université  
de **BORDEAUX**



**Cluster of Excellence LAPHIA  
Seminar**

## « Towards Computational Optics »

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et Nanosciences (LP2N)

Auditorium - Institut d'Optique d'Aquitaine - Talence  
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### **Abstract :**

The last few years have seen a strong impetus of computational processing techniques onto the design of optical measurement, imaging, and projection systems. Computational techniques are becoming an integral part of novel optical devices. The digitization of the complete imaging pipeline, in conjunction with ever more powerful (on-board) processing capabilities has enabled this development. Being closer to the data sources and co-designing measurement, imaging, and projection systems, as well as processing algorithms, has proven to enable significant new capabilities and improvements of existing ones. The potential impact on future hybrid computational-optical designs can not yet be fully comprehended but it is likely to be large.

In this talk I will introduce my work in this area and the associated activities at the LP2N, as well as outline an agenda for the upcoming years.

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