Computational and Experimental Methods for the Assessment of Tomographic Optical Microscopy in the II Near Infrared Window and in Low Scattering Media

by

Asier Marcos Vidal

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Universidad Carlos III de Madrid

Advisors:

Jorge Ripoll Lorenzo
Juan José Vaquero López

Tutor:

Juan José Vaquero López

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Journal Articles:

[1] **Marcos-Vidal A** and Ripoll J (2019) "Recent advances in Optical Tomography in Low Scattering Media" *Optics and Lasers in Engineering.* (submitted)

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(Contribution completely included in chapter 2)

[1] Albert-Smet I, **Marcos-Vidal A**, Vaquero JJ, Desco M, Muñoz-Barrutia A and Ripoll J (2019) "Applications of Light-Sheet Microscopy in Microdevices." *Front. Neuroanat.* 13:1. https://doi.org/10.3389/fnana.2019.00001

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Book Chapters:

 [1] **Marcos-Vidal, A**., Vaquero, J. J. and Ripoll, J. (2019) 'Optical properties of tissues in the near infrared: Their relevance for optical bioimaging', in Benayas, A. et al. (eds) *Near-Infrared-Emitting Nanoparticles for Biomedical Applications*. 1st edn. Springer International Publishing. **https://doi.org/10.1117/12.2293708**

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Conference Proceedings:

[1] **Marcos-Vidal A**, Ancora D, Zacharakis G, Vaquero JJ, and Ripoll J (2018) "Projection tomography in the NIR-IIa window: challenges, advantages, and comparison with classical optical approach", *Proc. SPIE 10573, Medical Imaging 2018: Physics of Medical Imaging*, 105732F **https://doi.org/10.1117/12.2293708**

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Patents:

[7] **Marcos-Vidal A**, Fernández R and Ripoll. Método y sistema para revertir el efecto de la dispersión de la luz en medidas de haz láser plano, Issued 2019.(Appproved for submission by the UC3M committee. In preparation)

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[7] Fernández R, **Marcos-Vidal A** and Ripoll. Método y sistema para determinar el perfil rugoso de muestras de tejido mediante medidas de autocorrelacción de luz dispersada en reflexión, Issued 2019. (Appproved for submission by the UC3M committee. In preparation)

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