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# Víctor P. Gil Jiménez

UNIVERSITY CARLOS III DE MADRID

ASSOCIATE PROFESSOR

## SHORT BIO

Víctor P. Gil Jiménez received the B.S and the M.S in Telecommunication degree in 1998 and 2001, from the University of Alcalá and University Carlos III of Madrid, respectively, and the PhD. degree in 2005 from the University Carlos III of Madrid, all of them with Honors. He is with the department of Signal Theory and Communications at the University Carlos III of Madrid as Associate Professor in the Communications Group. He worked at the Spanish Antarctica Base in 1999 as Communications Staff. He has also led several private and national Spanish projects and has participated in several European and international projects. He holds one patent. He has received the Master Thesis and a PhD Thesis Award by the Professional Association of Telecommunication Engineers of Spain in 1998 and 2006, respectively. He has published over 30 journal papers and 7 book chapters. His interests are in the field of the advanced multicarrier systems for wireless radio and visible light communications. He held the IEEE Spanish Communications and Signal Processing Joint Chapter chair (2015 - 2019).

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# Madrid Flight on Chip (MFOC)

WEB: <https://flightonchip.es>

## DESCRIPTION

The project Madrid Flight on Chip (MFOC) is a research and innovation project funded by Comunidad de Madrid and the European Union. The goal of the MFOC project is to develop novel techniques for the development of future-generation aerospace satellite systems. The project will explore hardware and software techniques for radically different aerospace system development in that will enable much more cost-effective satellite missions with lower development time possible with new-generation System-on-Chip designs, while maintaining high levels of reliability. The project will explore the use of modern hardware architectures, including FPGAs and commercial multi-core to solve common problems in the target aerospace application domain. These problems include energy consumption and resistance to cosmic radiation. The software techniques will include applications of software engineering techniques like model-based design and automated code generation and testing.

The MFOC consortium includes SENER Aeroespacial as the main aerospace industrial partner and IMDEA Software and Universidad Carlos III as research partners, with GENERA, CENTUM, REUSE and MARM being the rest of the industrial partners.

