



Gil Gonçalves has a PhD in Electrical and Computer Engineering, focused on the analysis, specification and implementation of complex systems with adaptive capabilities, he has been developing his scientific and pedagogical career in the areas of systems and software engineering, control architectures and design of software for complex systems. His main research interests / skills are: Digitization, digital transformation and industry 4.0; architectures and models of information systems for complex systems; Cyber Physical Systems; IoT and edge computing; predictive and prescriptive models for adaptable and reconfigurable systems.

Assistant Professor at the Faculty of Engineering of the University of Porto (FEUP) in the Department of Informatics Engineering (DEI), Gil is also the coordinator of the Digital and Intelligent Industry R&D Lab. The Digital and Intelligent Industry R&D LAB develops R&D activities in advanced control concepts and systems, software tools and technologies, for a broad array of industrial applications. Targeting the design, implementation and validation of smart components for advanced industrial system that introduce intelligence into industrial processes, the Digital and Intelligent Industry R&D Lab contributes to the emergence of Industry 4.0 solutions, by implementing novel approaches related with Cyber-Physical Production Systems.

Since 2015 Gil has been involved in 12 International (FP7 and H2020) and 4 National projects, being principal investigator in 14.

Advisor of 8 doctoral theses and co-author of 5 international journal articles and 33 international conferences articles (with 340 citations and h index of 11 since 2015).

Involved in the EIT Manufacturing knowledge and innovation community, is a member of the EIT Manufacturing Doctoral School Scientific and Industrial Committee and leader of the aDvanced studies in Digitalisation of MANufacturing post-graduation which will be offered in 2021.

Chairman of the General Assembly of the TICE.PT association.

Gil Gonçalves' contribution to the IARIA started in 2015. He is author and co-author of several articles presented at IARIA conferences and published in IARIA journals. He has been session chair and keynote speaker at IARIA conferences. Four of his contributions have been awarded with Best Paper Awards. As IARIA Fellow, he seeks to support the efforts of the organization in finding solutions for recruiting and retaining students in Informatics and Electrical Engineering, by promoting interdisciplinary research and outreach and international collaborative research teams in digital transformation and industry 4.0.