

Dr. Milan Prodanović is a Senior Researcher and Head of the Electrical Systems Group at the IMDEA Energy Institute. After earning his degree in Electrical Engineering from the University of Belgrade, he worked at an R&D company developing power electronic circuits and control algorithms for inverters and UPS systems. In 1999, Milan received a Ph.D. scholarship from a UK company and moved to Imperial College London. During his time at Imperial, he participated in various academic and industrial projects, covering areas such as distributed generation integration, large-scale power converter control in microgrids, decentralized control, real-time simulation of electrical networks, and energy efficiency in vibration test systems.

In 2010, Dr. Prodanović was invited to establish a new research unit for Electrical Systems at the IMDEA Energy Institute in Madrid. He recruited researchers, designed, and managed the construction of the Intelligent Energy Integration Laboratory, a dedicated and flexible environment for developing and testing control algorithms for power converters and network management. Milan acted as **Principal Investigator** and **Coordinator** in numerous regional, national, and international projects across Spain, the **United Kingdom, France, Denmark, Italy, Belgium, Switzerland, Lithuania, Kenya, and Japan**. He also collaborated with major energy sector companies in the UK, France, Denmark, and Spain (**REE, EDF, EON, Iberdrola, Union Fenosa, SEAS, Supergrid Institute**, etc.). Since 2010, Milan has secured over €300,000 per year in external funding for the research group, participating in competitive public and industrial calls and collaborating directly with industry.

Milan's research interests focus on the control and design of power electronic systems, renewable energy and storage integration, real-time control of electrical networks, energy management, and stability analysis of microgrids and energy systems, as well as energy efficiency in industrial applications. Milan has authored numerous highly cited scientific publications (over 6,500 citations), both as a first author and as a supervisor, in the fields of microgrids, power electronics, network and demand management. He holds three international patent applications and was awarded the **Ramón y Cajal** research fellowship in 2011 and the "**Marie Curie**" mobility grant in 2010.

Milan has served as a reviewer for several prestigious research journals (Elsevier and IEEE), and since 2015, he has been an accredited reviewer for **ANEP** (the National Agency for Evaluation and Foresight). He is a member of the power electronics and storage working groups of the national smart grid platform **FUTURED**. Over more than 25 years working in research institutions, Milan has supervised numerous master's theses and final-year projects, as well as nine doctoral theses, and currently supervises three Ph.D. candidates. He has also successfully mentored several postdoctoral researchers, supporting their progression to roles as professors, senior researchers, and senior engineers.

Milan has been invited to give talks at various international conferences, workshops, and summer schools. He has also organized and participated in multiple public outreach events, such as Researchers' Night and Science Week. Additionally, he has engaged directly with industry by presenting results at forums and trade fairs (**GENERA, Smart Energy**, etc.). Milan has been actively publishing scientific articles in Q1 journals since 1999, effectively covering three six-year periods of research activity (known as "sexenios"). These research periods were validated by UC3M in 2012, UAH in 2018, and URJC in 2022.