



### **Biography of Paulo César Pellanda**

Paulo César Pellanda, PhD, is Dean of Graduate Studies and Associate Professor at the Military Institute of Engineering (IME), Rio de Janeiro, Brazil. A retired Colonel Military Engineer of the Brazilian Army, he holds a B.Sc. and an M.Sc. in Electrical Engineering and a Ph.D. in Automatic Control from ISAE-SUPAERO, France. His doctoral research was recognized with the CNRS Best Thesis Award in Automatic Control, and he is a member of the Brazilian National Academy of Engineering, the Brazilian Society of Automatics, and IEEE.

With more than three decades of academic, scientific, and engineering leadership, Professor Pellanda has developed a multidisciplinary career spanning advanced control, electric power systems, cybersecurity of cyber-physical systems, innovation management, and building information modeling. At IME, he currently coordinates the graduate specialization program in Power Systems Protection, developed in cooperation with the Brazilian National System Operator, and manages the Cybersecurity Laboratory for Cyber-Physical Systems (LaSC), a major real-time hardware-in-the-loop environment for studies on critical infrastructure resilience, including electric power systems.

Professor Pellanda has made important contributions to sustainable energy production and energy infrastructure. Earlier in his engineering career, he worked on alternative and renewable energy solutions for isolated areas of the Amazon, including the construction of five micro-hydroelectric plants in frontier regions. He also coordinated field tests on generators at the Itaipu Hydroelectric Power Plant, contributing to an innovative methodology for evaluating controller performance in large multi-generator plants. His broader work in power-system stability, protection, and cybersecurity has strengthened the resilience and reliability of critical energy systems, while his recent research has also addressed digital social innovation and the Sustainable Development Goals.

Throughout his career, he has combined academic excellence, strategic project leadership, and public-sector engineering experience, including large-scale infrastructure management and the development of digital lifecycle systems for the Brazilian Army's built environment. His work exemplifies the integration of engineering, sustainability, innovation, and national development. In recognition of his contributions to sustainable

energy systems, critical infrastructure, and science-based technological advancement, Professor Paulo César Pellanda is honored at SIPS 2026.