JEROME LACAILLE

Emeritus expert at Safran Aircraft Engines, I have held successive missions since 2007, including the development of an algorithmic environment for Prognostics and Health Management (PHM) of engines, the creation of a DataLab for company-wide data analysis, and the coordination of a business network focused on mathematics, data analysis, and scientific computing.
A graduate of the École Normale Supérieure and a doctor in mathematics, I am also a professor at Sorbonne Paris Nord University. I supervise a team of doctoral students within the company and continue teaching at the university. In recent years, my doctoral students have worked on topics such as turbofan wear evolution, including mission categorization, vibration behavior, causal analysis, deep survival modeling for reliability, and the link between manufacturing and wear. Current doctoral programs focus on state-model integration in digital twins, simulation, and dynamic troubleshooting.
In 1992, I co-founded Miriad Technologies, then enter the semiconductor industry. I led the Innovation Department for Si Automation (Montpellier, France) and PDF Solutions (San Jose, CA). I developed specialized mathematical algorithms that were integrated into industrial processes and published several papers and patents on applying data analysis to industrial infrastructures, including neural methodologies and stochastic modeling.