



Armand BABOLI is an Associate Professor at the Industrial Engineering Department of INSA Lyon-France since September 1998 and joined the LIRIS laboratory in March 2018. He obtained his habilitation to supervise research (HDR) from INSA Lyon in 2013 and his doctorate in industrial engineering in 1999 from Grenoble Institute of Technology (Grenoble INP).

His recent research focuses on intelligence, robustness, flexibility, and agility in the design, configuration, and optimization of production systems and the supply chain, as well as the evolution of traditional production systems into intelligent production systems (the factory of the future & industry 4.0). He has currently developed a new approach for the decision support system specifically for real cases in manufacturing companies. This approach, called "Dynamic Predictive Decision Making", is based on Artificial Intelligence and combines the concepts and techniques from data science, mathematical optimization, flow simulation, and knowledge management. Several tools and applications, specifically for production planning, scheduling and sequencing are developed and they are currently in use in industries.

He is the creator and principal investigator of several industrial collaborations. He is currently Chair of 3 collaborative research projects with Dassault FalconJet-USA (201-2021) concerning "smart supply chain" (500 000\$), with Fiat Powertrain Technologies (2015-2022) concerning "Transformation of the production system towards industry 4.0" (650 000€), and with Volvo Group (2018-2024) concerning "Dynamic predictive production planning sequencing and line balancing" (750 000€).

He has supervised and co-supervised 20 Ph.D., 41 research masters, and more than 200 engineering masters. This research has been published in more than 130 articles in international journals, several book chapters, and international conferences. He is an editorial member of several international journals. He has also received the Scientific Excellence Award and a Doctoral and Research Management Award.