

Dr. Alberto Ferrari
General Manager, Advanced Laboratory on Embedded Systems - Italy



Biographical Profile

Alberto Ferrari, Ph.D., is General Manager, Advanced Laboratory on Embedded Systems (ALES) in Rome and Trento, Italy – one of two UTRC research and development hubs in Europe. ALES is focused on advancing the capabilities of United Technologies Corp. (UTC) in model-based system engineering for complex cyber-physical systems and the application of these technologies and methodologies to the development of UTC's aerospace and building and industrial systems products.

Ferrari brings to his current position 20 years of industrial research and development experience in model-based engineering. He joined UTC in 2012, and since then, has focused on the development and deployment of methods and tools for cyber-physical systems working in strict collaboration with UTC's business units. In 2009, he co-founded ALES and directed it until its acquisition by UTC. Prior to that, he served as Deputy Technical Director of PARADES EEIG research laboratory in Rome, Italy and also worked at the STMicroelectronics Berkeley Research Labs, Berkeley, California. In addition, he has served as a consultant/Technical Advisor and/or Safety Architect for several companies, including BMW, Magneti Marelli, Daimler, STMicroelectronics, Freescale and Cadence. Further, he has participated in the ARTISTII, ArtistDesign and Hycon European Networks of Excellence and served as Technical Coordinator for PARADES/ALES on behalf of more than six European research projects. He is currently Scientific Coordinator of MISSION, a Clean Sky 2 project.

Ferrari holds four patents and is the author of 34 technical journal articles, two book sections and more than 50 conference papers on design tools and methodologies for embedded systems, safety-critical embedded controllers, and hybrid systems. He has taught courses on network and embedded systems for more than 10 years at the University La Sapienza, Rome and University of Ancona, Ancona, Italy, where he also advises masters and Ph.D. students.

Ferrari received his master and Ph.D. degrees in electrical engineering and computer science at the University of Bologna, Bologna, Italy. He was a visiting fellow at the Electrical Engineering and Computer Science Department at the University of California at Berkeley, Berkeley, California from 1995 to 1996.