

Dr. Erasmo Carrera is Professor of Aeronautics and Astronautics at Politecnico di Torino. He serves as President of the Italian Association of Aeronautics and Astronautics, A.I.D.A.A., a member of the Accademia delle Scienze di Torino, the International Academy of Astronautics, and the Académie de l'Air et de l'Espace. He is the President of the Board of Directors of the Space It Up Company, leading the most important homonymous space project funded by the Agenzia Spaziale Italiana.

He has been the recipient of the FIS 3 project FEM 2.0. He has been a visiting professor at the University of Stuttgart, Virginia Tech, Royal Melbourne Institute of Technology, Tambov University, Supmeca and Ensam, Ning Bo University, and Prince Mohammad Bin Fahd University. Dr. Carrera has been responsible for various research contracts granted by public and private national and international institutions, including the European Community, European Space Agency, Thales Alenia Space, and Embraer. He is the founder and Editor-in-Chief of Advances in Aircraft and Spacecraft Science, Editor-in-Chief of Mechanics of Advanced Materials and Structures, and Section Editor of Journal of Sound and Vibration.

He has introduced the Unified Formulation, or CUF (Carrera Unified Formulation), as a tool to establish a new framework to develop theories of beams, plates, and shells for metallic and composite multilayered structures. CUF has been applied to meshless, finite element methods to classical and mixed variational frameworks as well as to linear and nonlinear problems. In particular, CUF has originated the so-called NDK-FE, Node Dependent Kinematics version of Finite Elements. He has been an author and co-author of about 800 papers on the above topics. Carrera has been a recipient of various 'best paper awards' and of the 'JN Reddy Medal'.

He has been awarded as an Honorary Qiushi Professor at Zhejiang University. Professor Carrera has been a Highly Cited Researcher (Top 100 Scientist) by Thomson Reuters in the two Sections: Engineering and Materials. He was confirmed HiCI in 2015 in the Section of Engineering. The only aerospace Engineering worldwide. Due to his scientific accomplishments, Professor Carrera has been awarded by the President of the Italian Republic, as 'Honorary Commendatore'.

He has been appointed Loc-Chair of IAC 2024 (Milan) and ICAS 2024 (Florence), AIAA CEAS Aeroacoustic 2024 (Rome), and General Chair of SSDM, ASME 2025 (Long Beach, CA), Chair of CEAS-AIDAA 2025 (Torino), Loc Chair of AIAA- AIDAA Hypersonic 2026 (Naples), and Chair of ICMAMS 5th, 2026 (Toulouse).

Due to its service to AIDAA, he has been the recipient of the AIDAA Excellence Award 2025.