

**Bio:** Enrico Zio received the MSc degree in nuclear engineering from Politecnico di Milano in 1991 and in mechanical engineering from UCLA in 1995, and the Ph.D. degree in nuclear engineering from Politecnico di Milano and in probabilistic risk assessment at MIT in 1996 and 1998, respectively. He is currently full professor and President of the Alumni Association at Politecnico di Milano, Italy, where he also served as Director of the PhD School. He is also full professor at the Centre for research on Risk and Crises (CRC) of Ecole de Mines, Paris, PSL University, France, adjunct professor at Tromsø University in Norway, City University of Hong Kong and Harbin University in China. He is IEEE and Sigma Xi Distinguished Lecturer.

In 2020, he has been awarded the prestigious Humboldt Research Award from the Alexander von Humboldt Foundation in Germany (<https://www.humboldt-foundation.de/web/home.html>), one of the world's most prestigious research awards across all scientific disciplines. The Award is granted in recognition of a researcher's entire achievements to date, to academics whose fundamental discoveries, new theories, or insights have had a significant impact on their own discipline and who are expected to continue producing cutting-edge achievements in the future. Professor Zio has been selected for the Award in light of being a World leading scientist in Risk and Resilience Assessment, Safety Analysis and Reliability Engineering of complex systems and infrastructures, in particular for energy applications.

He is author and co-author of several books and more than 600 papers on international journals, Chairman and Co-Chairman of several international Conferences, associate editor of several international journals and referee of more than 20.

His Google Scholar H-index is 107 and he is in the top 2% of the World scientists, according to Stanford ranking.

In 2023, he has been appointed as Scientific Director of Research and Development of Datrix AI Solutions group, an AI company listed on Euronext Growth Milan, he has been elevated to the status of IEEE fellow “for contributions to safety and reliability engineering”, he has been elected fellow of Asia-Pacific Artificial Intelligence Association as “the top scientist with outstanding achievements in the area of reliability engineering and risk assessment”.

In 2024 he has been recognized with the lifetime achievement award by the Society for Reliability and Safety for pioneering the application of AI and GA in support of Risk and Resilience Assessment for Complex Engineering Systems, elected Fellow of the Artificial Intelligence Industry Academy, awarded the Alan O. Plait 2024 Award for a tutorial on industrial applications of Artificial Intelligence at the Annual Reliability and Maintainability Symposium, RAMS 2024, presented the International System Safety Society (ISSS) 2024 Educator of the Year Award for outstanding achievement in, or contribution to, system safety education and the advancement of the state of knowledge in system safety, named Distinguished Research Fellow of the Institute of Nuclear Energy Safety Technology, in Hefei, China, elected in the Italian Association of Technology and Engineering.