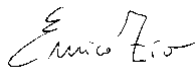


Enrico Zio received the MSc degree in nuclear engineering from Politecnico di Milano in 1991 and in mechanical engineering from UCLA in 1995, and the Ph.D. degree in nuclear engineering from Politecnico di Milano and in probabilistic risk assessment at MIT in 1996 and 1998, respectively. He is currently full professor at the Centre for research on Risk and Crises (CRC) of Ecole de Mines, ParisTech, PSL University, France, full professor and President of the Alumni Association at Politecnico di Milano, Italy, eminent scholar at Kyung Hee University, Republic of Korea, distinguished guest professor at Tsinghua University, Beijing, China, adjunct professor at City University of Hong Kong, Beihang University and Wuhan University, China and Co-Director of the Center for RELiability and Safety of Critical Infrastructures (CRESCI) and the sino-french laboratory of Risk Science and Engineering (RISE), at Beihang University, Beijing, China.

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 given to outstandingly qualified researchers and future leaders from science-related fields (but very seldom awarded to engineers!). 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. His H-index is 72. He has been one of the pioneers in using artificial intelligence (such as neural networks) and genetic algorithms in reliability engineering and risk assessment, solving key problems related to the safety and reliability of critical systems such as those used in the nuclear, oil and gas, transportation industries. He has promoted the use of computational modeling within various international initiatives.

His research focuses on the modeling of the failure-repair-maintenance behavior of components and complex systems, for the analysis of their reliability, maintainability, prognostics, safety, vulnerability, resilience and security characteristics, and on the development and use of Monte Carlo simulation methods, artificial intelligence techniques and optimization heuristics. He is author and co-author of seven books and more than 500 papers on international journals, Chairman and Co-Chairman of several international Conferences, associate editor of several international journals and referee of more than 20.



# CURRICULUM VITAE

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## Dr. Enrico Zio:

- High School Graduation Diploma in Italy (1985) and USA (1984)
- MSc in nuclear engineering, Politecnico di Milano (1991)
- MSc in mechanical engineering, University of California, Los Angeles, UCLA (1995)
- PhD in nuclear engineering, Politecnico di Milano (1995)
- PhD in Probabilistic Risk Assessment, Massachusetts Institute of Technology, MIT (1998)
  
- Humboldt Research Award (2020)
  
- Assistant professor, Politecnico di Milano (1996-2001)
- Associate professor, Politecnico di Milano (2001-2005)
- Full professor, Politecnico di Milano (2005-)
- Director of the Graduate School, Politecnico di Milano (2007-2011)
  
- Director and Professor of the Chair on Complex Systems and the Energy Challenge at Ecole Centrale Paris and Supelec (CentraleSupelec, ParisSaclay), Fondation– EdF (2010-2018)
- Full professor, Ecole de Mines, ParisTech, PSL University, France (2018-)
  
- Visiting Professor, Massachusetts Institute of Technology, MIT, Cambridge, USA (2016-2017)
- Eminent Scholar, Kyung Hee University, Republic of Korea (2018-)
- Distinguished Guest Professor, Tsinghua University, Beijing, China (2017-)
- Adjunct professor, City University of Hong Kong, Hong Kong, China (2013-)
- Adjunct professor, Beihang University, Beijing, China (2015- )
- Guest professor, Wuhan University of Technology, China (2015-)
- Adjunct professor, University of Stavanger, Norway (2010 - 2017)
- Adjunct professor, Universidad Tecnica Federico Santa Maria, Valparaiso, Chile (2010-2011)
  
- Co-Director of the Center for REliability and Safety of Critical Infrastructures (CRESCI) at Beihang University, Beijing, China (2015- )
- Co-Director of the Sino-French Laboratory of RIsk Science and Engineering (RISE) at Beihang University, Beijing, China (2017- )
  
- Rector's Delegate for the Alumni Association, Politecnico di Milano (2011-)
- President of the Alumni Association, Politecnico di Milano (2012-)

- Rector's Delegate for Individual Fund Raising, Politecnico di Milano (2015-)
- President of Advanced Reliability, Availability and Maintainability of Industries and Services (ARAMIS) srl (2012-)
- President of ARAMIS – Tech Expo srl (2018-2021)
- President of Decision Intelligence for in-Depth Optimisation (DIDO) srl (2020-)
- Chairman of the European Safety and Reliability Association-ESRA (2010-2014)
- Member of the Board of Directors of the International Association of Probabilistic Safety Assessment and Management (IAPSAM) 2016-2024
- President of the Board of Directors of the International Association of Probabilistic Safety Assessment and Management (IAPSAM) 2020-2022
- Member of the Scientific Committee on Accidental Risks of INERIS, Institut national de l'environnement industriel et des risques, France (2011-2015)
- Member of the Academic Committee of the European Reference Network for Critical Infrastructure Protection, ERNCIP, of the European Commission (2013-)
- Member of the Advisory Committee of the Light Water Reactor Sustainability Program, Risk-Informed Safety Margins Characterization (RISMC) of the Idaho National Laboratory (INL) (2015-)
- Member of the 1<sup>st</sup> Advisory Committee of the National Engineering Research Center for Water Transport Safety, Wuhan, China (2017-)
- Member of the Scientific Advisory Committee of the Singapore-ETH Centre's (SEC).Future Resilient Systems Programme (FRS) (2015-2018)
- Member of the Alstom Transport "Health Hub" Scientific Advisory Board (2015-)
- Member of the Honorary Advisory Committee of the Theme-based Research Scheme (TBRS) Project on "Safety, Reliability, and Disruption Management of High Speed Rail and Metro Systems", City University of Hong Kong (2014-)
- Founding Member of the IEEE Reliability Society Technical Committee on "Systems of Systems"
- Member of the Board of Directors of SO.G.I.N. (SOcietà' per la Gestione degli Impianti Nucleari, the Italian company for the management of the nuclear systems (2019-)

- Member of the Expert Committee for decision support related to the management of the operations consequents to the collapse of the “Viadotto Polcevera” (“Ponte Morandi), in Genova, Italy (2018)
- Member of the list of experts for evaluation and verification activities of the system research projects of Italy (2019-)
- Member of the Experts Committee for the definition of the research plan 2021-2027 for the thematic subject “Safety of Structures, Infrastructures and Networks” of the area “Safety of Social Systems”.

## Personal Data

Born in Milano on May 6, 1966

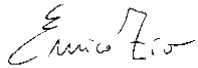
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A handwritten signature in black ink, appearing to read "Enrico Zio". The signature is written in a cursive style with a large initial 'E'.