U.S. Department of Energy

Mihai A. Diaconeasa

Bio:
Dr. Diaconeasa leads the design and development of a full-scope dynamic probabilistic risk assessment methodology and software platform for nuclear power plants and is the founder of the OpenPRA Initiative dedicated to designing and developing a wide range of traditional probabilistic risk assessment methods and open source software. Over the past years, Dr. Diaconeasa has developed the methodologies needed to design and implement a suite of computer codes in the probabilistic risk, reliability, and resilience assessment fields for nuclear, aerospace, and maritime industries. In 2023, for significant contributions to the simulation-based methods for probabilistic risk assessment of current and next generation of nuclear power plants, Dr. Diaconeasa received the ANS David Okrent Award for Nuclear Safety.

Years Beyond PhD:
6 years

Research Area:
Dr. Diaconeasa's research focus includes theories, applications, and simulation-based techniques in risk sciences, such as traditional and dynamic probabilistic risk assessment, reliability analysis, resilient systems design, probabilistic physics of failure modeling, and Bayesian inference.

School of Employment:
North Carolina State University

Educational Background (Field of Degree):
Ph.D. University of California, Los Angeles, Mechanical Engineering, 2017
M.S. Massachusetts Institute of Technology, Nuclear Science and Enginerring, 2014
B.S. University of College Utrecht, Utretcht University, 2010