

# George Apostolakis Fellowship Award Recipient for 2024

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## International Association of Probabilistic Safety Assessment and Management

In honoring George Apostolakis for his contribution to the Science of Risk as well as his vision, energy, and guidance generously given to IAPSAM, the 2024 George Apostolakis Fellowship is presented to:

# Takafumi Narukawa

**PSAM 17/ASRAM 2024 Sendai, Japan**

October 7-11, 2024



# Short biography of the recipient

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*Dr. Takafumi Narukawa*, Assistant Professor in the Department of Nuclear Engineering and Management (NEM) at the University of Tokyo (UTokyo).

- **Education**

- He received his Ph.D. in 2019 under the supervision of Professor Emeritus Akira Yamaguchi in the Department of NEM at UTokyo. He holds bachelor's and master's degrees in Sustainable Energy and Environmental Engineering from Osaka University, obtained in 2011 and 2013, respectively.

- **Work Experience**

- Aiming to facilitate more rational risk-informed decision-making, he engages in research and education in probabilistic risk assessment (PRA) and its applications to light-water and advanced reactors with Professor Takashi Takata at UTokyo.
- Key areas of his work include uncertainty analysis of fuel behavior under accident conditions, the development of risk importance measures (RIMs) and methodologies for probabilistic determination of core damage, and performance evaluation of accident-tolerant fuels.
- As a principal investigator, he has led a joint research project with the Japan Atomic Energy Agency, developing RIMs for dynamic PRA. He has also contributed to technical requirements for innovative light-water reactors and Level 2 PRA standards at the Atomic Energy Society of Japan.