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Frangopol has co-authored two papers recognized with 2022 ASCE awards

CEE professor and life-cycle engineering pioneer to receive the Moisseiff Award and the Arthur M. Wellington Prize for the second time in his distinguished career

Dan M. Frangopol, the inaugural Fazlur R. Khan Endowed Chair of Structural Engineering and Architecture at Lehigh University, is a co-author of two papers recently honored with awards from the American Society of Civil Engineers (ASCE).

Papers written by Frangopol, a distinguished member of ASCE, and his current and former PhD students and postdocs have won a total of 11 awards from the society.

Moisseiff Award

For the 2022 [Moisseiff Award](#), ASCE's Structural Engineering Institute selected the paper, "[Determining Target Reliability Index of Structures Based on Cost Optimization and Acceptance Criteria for Fatality Risk](#)," published in the June 2021 issue of *ASCE-ASME Journal of Risk Uncertainty in Engineering Systems, Part A: Civil Engineering*. The writing team also includes Frangopol's former doctoral students Liang Liu '21 PhD (now a lecturer in the Department of Civil and Environmental Engineering at Beijing University of Technology) and David Y. Yang '17 PhD (who was co-advised by Frangopol at Hong Kong Polytechnic University, was a postdoctoral research associate at Lehigh under Frangopol's supervision from April 2017 to August 2020, and is now an assistant professor of civil and environmental engineering at Portland State University).

The prize honors "an important paper published in a print issue of an ASCE journal in the 12-month period ending with June of the year preceding the year of award (or any year since the last award), dealing with the board field of structural design, including applied mechanics as well as the theoretical analysis, or constructive improvement, of engineering structures such as bridges and frames, of any structural material," according to the ASCE website.

The award will be presented during ASCE's [2023 Structures Congress](#) in New Orleans, May 3-6, 2023.

Frangopol also was a recipient of the Moisseiff Award in 2003.

Arthur M. Wellington Prize

For the 2022 [Arthur M. Wellington Prize](#), ASCE's Society Awards Committee selected the paper, "[Optimum Target Reliability Determination for Efficient Service Life Management of Bridge Networks](#)," published in the October 2020 issue of the *Journal of Bridge Engineering*. The writing team also includes Frangopol's former doctoral student Sunyong Kim '11 PhD (an associate professor in the Department of Civil and Environmental Engineering at Wonkwang University) and Kim's advisee Baixue Ge.

The Wellington Prize recognizes papers about "transportation on land, on the water, in the air, or on foundations and closely-related subjects" that have been published in a print issue of an ASCE journal in the 12-month period ending with June of the year preceding the year of the award, according to the society's website.

The award will be presented at ASCE's [Annual Convention](#) in Anaheim, CA, October 23-26, 2022.

Frangopol was also a recipient of the Wellington Prize in 2012.

About Dan M. Frangopol

Frangopol's main research interests are in the development and application of probabilistic and optimization concepts and methods to civil and marine structures under various types of hazards.

He is the Founding President of both the International Association for Bridge Maintenance and Safety ([IABMAS](#)) and the International Association for Life-Cycle Civil Engineering ([IALCCE](#)).

He is the Founder and Editor-in-Chief of [Structure and Infrastructure Engineering](#), an international peer-reviewed journal launched in 2005.

His research and professional service have garnered numerous awards from ASCE, IABSE, IASSAR, ISHMII and other professional organizations.

Frangopol has authored/coauthored 4 books, 64 book chapters, over 450 articles in peer-reviewed journals, including 13 award-winning papers, and more than 600 papers in conference proceedings.

According to [ASCE Library](#), as of May 31, 2022, Frangopol has published more than 120 articles in ASCE Journals, including 70 in the *Journal of Structural Engineering* and 29 in the *Journal of Bridge Engineering*. The *Journal of Structural Engineering* is considered one of the flagship journals of ASCE. It was first published in 1873 as part of *ASCE Proceedings*, and started publishing separately in 1956.

Frangopol holds 4 honorary doctorates and 14 honorary professorships.



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Liang Liu '21 PhD



David Y. Yang '17 PhD

He is a member of the National Academy of Construction of the United States, a foreign member of the Academy of Europe (London), a foreign associate of the Engineering Academy of Japan, a foreign member of the Royal Academy of Belgium, an honorary member of the Romanian Academy, an honorary member of the Romanian Academy of Technical Sciences, and a distinguished member of ASCE.

Read more about Frangopol's research and achievements [here](#).

Related Links:

- [Lehigh University: Dan M. Frangopol](#)
- [Dan M. Frangopol](#)
- [ASCE Moisseff Award](#)
- ["Determining Target Reliability Index of Structures Based on Cost Optimization and Acceptance Criteria for Fatality Risk"](#)
- [ASCE Arthur M. Wellington Prize](#)
- ["Optimum Target Reliability Determination for Efficient Service Life Management of Bridge Networks"](#)

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Sunyong Kim '11 PhD



Baixue Ge

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