

ASCEnews

Team of Engineers Honored with ASCE's J. James R. Croes Medal

BY [Staff](#)

May 22, 2014 [ASCE Awards](#)

Sunyoung Kim, Ph.D., EIT, M.ASCE; **Dan M. Frangopol**, Sc.D., P.E., Dist.M.ASCE; and **Mohamed Soliman**, S.M.ASCE, are the recipients of the **J. James R. Croes Medal** for their paper "Generalized Probabilistic Framework for Optimum Inspection and Maintenance Planning," published in the March 2013 issue of ASCE's *Journal of Structural Engineering*. This paper presents a probabilistic framework for optimum inspection and maintenance planning and continues to push the envelope of bridge maintenance by introducing uncertainties at all levels to produce usable inspection routines and assist in maintenance decisions. The paper describes a very important advance in inspection and maintenance scheduling for time-dependent deterioration of structures or systems, and also illustrates the ability to determine the impacts of better inspections (damage detected earlier) and maintenance actions (or even replacement actions) on the service life of a structure and its total life-cycle cost. The paper concludes that with much of our nation's infrastructure in maintenance delinquency, this method could go a long way toward determining which significant structures or systems could best benefit (at the minimum cost) by extension of their service life.

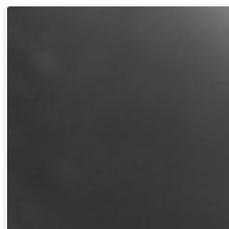
Tagged as: [ASCE Awards](#)

Share [f](#) [t](#) [in](#) [G+](#) [p](#) [✉](#)

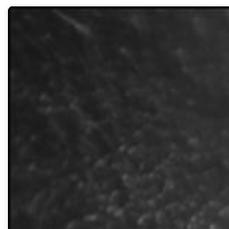
You might also like...



[Preeminent Team of Engineers and Researchers Presented the Rudolph Hering Medal](#)



[Celebrated Engineers and Researchers Presented with the Wesley W. Horner Award](#)



[Likos and Jaafar are Awarded ASCE's Norman Medal](#)



[Rice Earns ASCE's von Karman Medal](#)

About the Channel

"ASCE News" – the news source for Society members – covers the activities of ASCE and its members, showcasing Society accomplishments and the many ways members can participate and benefit.

SECTIONS

[ASCE: Working for You](#)

[Featured Articles](#)

[Obituaries](#)

[People](#)

ASCE Roundup Channels

[ASCE News](#)

[President's Perspective](#)

[Promote the Profession](#)

[Sustainable Engineering](#)

[Technical Notes](#)

[The Emerging Engineer](#)

[The Leadership Imperative](#)

Leave a Reply

Name:

— required *

Email:

— required *

Message:

Infrastructure Blog

[Read Save America's Infrastructure Blog](#)

ASCE NEWS ARCHIVE

[2013 ASCE News](#)

[2012 & earlier ASCE News](#)

[Submit Comment](#)

Founded in 1852, the American Society of Civil Engineers (ASCE) represents more than 145,000 members worldwide and is America's oldest national engineering society.
[ASCE Home](#) | [Privacy Policy](#) | [Policies and Disclaimers](#) | ©2016