

IE Decision Systems Engineering Spring '22 Seminar Series

Frontiers in Reliability Engineering Research and Applications

Friday, Feb 11, 2022, 12:00pm-1:00pm MST

Zoom link: <https://asu.zoom.us/j/7274630791>

Abstract

The pace of the developments of new materials, advances in manufacturing processes and sensors technology have resulted in the introduction of new products with unique designs and configurations. The human health care systems and the need for closer integration of engineering into the medical field have been greatly affected by such developments. New medical devices, human body parts replacements with “artificial” ones, their manufacturing, quality and reliability pose challenging research issues. This presentation addresses key challenges in reliability modeling, estimation, prediction and testing approaches for such products and highlights key challenges that require investigation by the reliability engineering community.



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Bio

E. A. Elsayed is Distinguished Professor of the Department of Industrial and Systems Engineering, Rutgers University. He is also the Director of the NSF/ Industry/ University Co-operative Research Center for Quality and Reliability Engineering. He was the Chair of ISE, Rutgers University from 1983 to 2001. His research interests are in the areas of quality and reliability engineering and Production Planning and Control. He is a co-author of *Quality Engineering in Production Systems*, McGraw Hill Book Company, 1989. He is also the author of *Reliability Engineering*, Addison-Wesley, 1996. These two books received the 1990 and 1997 IIE Joint Publishers Book-of-the-Year Award respectively. His recent book *Reliability Engineering 2nd Edition*, Wiley, 2012 received the *2012 Outstanding Publications of IIE*. The third edition of this book by Wiley in 2021 was selected to be included in the Best Industrial Management eBooks of All Time. Dr. Elsayed has received many awards and honors and was the keynote speaker of many international conferences.

Hosted by:
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