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MSEC SEMINAR AND COMMERCIALIZATION FORUM



INVITED SPEAKER:

DR. TAHIR EKIN

“HEALTH CARE FRAUD ANALYTICS”

October 12th, 2018

1:30 – 3:00 PM

RFM 3241

Biography:

Tahir Ekin is the Brandon Dee Roberts Associate Professor of Quantitative Methods in McCoy College of Business, Texas State University. His areas of expertise include statistical applications in medical fraud assessment and simulation based stochastic optimization. His previous work experience includes a stint as a statistician at Integrated Management Services (IMS), working on health care fraud detection. He has a forthcoming book “Statistics and Health Care Fraud: How to Save Billions” as part of the ASA/CRC Series on Statistical Reasoning in Science and Society. His scholar work on health care fraud has been published in a variety of academic journals including International Statistical Review, The American Statistician and Applied Stochastic Models in Business and Industry. His work has been presented in various conferences sponsored by ISI, ISBIS, ISBA and INFORMS; and has been the recipient of Texas State University 2018 Presidential Distinction Award in Scholar Activities, and ASA/NISS y-Bis 2016 Best Paper Award among others. He has developed and taught courses in the areas of business statistics, optimization, data mining and analytics. Dr. Ekin also currently serves as ISBIS Vice President of responsible of Y-Bis.

Abstract:

Medical expenditures are a significant part of the governmental budgets. It is reported by U.S. governmental agencies that three to ten percent of the annual health care spending is lost to fraud, waste and abuse. These overpaid transactions have direct cost and health implications to the government and to the taxpayers. In this talk, I will provide an overview of statistical approaches that are used for medical fraud assessment. Firstly, I will discuss the use of data mining approaches for medical fraud detection with an emphasis on unsupervised methods.

FOR MORE INFORMATION OR IF YOU WOULD LIKE TO HAVE LUNCH WITH THE SPEAKER,
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The main objective of these approaches is to identify the billing patterns and detect unusual behaviors in order to help medical auditors. Secondly, a brief overview of the use of statistical sampling and estimation methods for medical fraud assessment will be presented. For a brief overview, you can take a look at the material at <http://www.tahirekin.com/research1.html> especially the review paper by Ekin et al. (2018) titled Statistical Medical Fraud Assessment: Exposition to an Emerging Field.

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