



## Jose Emmanuel Ramirez Marquez

### PSAM12 Speaker Bio

#### Minimization of Vulnerability for a Network under Diverse Attacks

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**Short Statement:** Speaker for the authors.

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#### BIOGRAPHY

Dr. Jose Emmanuel Ramirez-Marquez is Director of the Engineering Management program and Associate Professor in the School of Systems & Enterprises at Stevens Institute of Technology. A former Fulbright Scholar, he holds degrees from Rutgers University in Industrial Engineering (Ph.D. and M.Sc.) and Statistics (M.Sc.) and from Universidad Nacional Autonoma de Mexico in Actuarial Science. His research efforts focus on the development of mathematical models for the analysis and computation of system operational effectiveness; reliability and vulnerability analysis as the basis for designing system resilience. He also works at the intersection of evolutionary computation for the optimization of complex problems associated with system performance and design. In these areas, Dr. Ramirez-Marquez has conducted funded research for both private industry and government and, has published over 100 refereed manuscripts in technical journals, book chapters and industry reports. Dr. Ramirez-Marquez has presented his research findings nationally and internationally in conferences such as INFORMS, ISERC, INCOSE, CESUN and, ESREL. He has served as the President of the Quality Control and Reliability division board of the Institute of Industrial Engineers and he is a member of the Technical Committee on System Reliability for the European Safety and Reliability Association. He can be contacted at [jmarquez@stevens.edu](mailto:jmarquez@stevens.edu)

