

## Tapas K. Das, Ph.D.

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Industrial and Management Systems Engineering  
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### **Biography**

Dr. Das received his PhD in industrial engineering from Texas A&M University. He attended a two-week long Institute for Educational Management (IEM) in 2010 at the Harvard Institutes for Higher Education at Harvard Graduate School of Education, Massachusetts. He has received over \$5 million in external funding, directed 14 PhD dissertations and 23 master's theses. He has published 47 refereed journal papers.

Dr. Das served as the Chair of the ENRE (Energy, Natural Resources, and the Environment) Section of INFORMS and was an elected member of the Subdivisions Council of INFORMS for 2010 and 2011. Currently Dr. Das serves the Chair of the Council of Industrial Engineering Academic Department Heads. He is a Fellow of IIE, member of INFORMS and IEEE.

### **Education**

*PhD, Industrial Engineering*, Texas A&M University, 1989

*MS, Industrial Engineering*, University of South Florida, 1986

*ME, Project Engineering*, Birla Institute of Technology and Science, Pilani, India, 1982

*BE, Mechanical Engineering*, National Institute of Technology, Durgapur, India, 1979

### **Research**

Current research interests include modeling and analysis of electric power network operations in conjunction with Internet of Energy (IoE) enabled smart and connected communities (smart cities), renewable electricity generation and CO<sub>2</sub> emissions control policy planning. He is also involved in developing decision making tools for better disease diagnosis and treatment planning for cancer care and mitigation of the potential impact of influenza pandemic outbreaks.

### **Courses taught in 2015-2016 Academic Year**

ESI 4244 Design of Experiments

ESI 6247 Statistical Design Models

EGN 3443 Probability and Statistics for Engineers

### **Recent Publications**

- Ghalebani, A. and Das, T. K. 2016. Design of Financial Incentive Programs to Promote Net Zero Energy Buildings. *IEEE Transactions on Power Systems* (to appear)
- Feijoo, F., Silva Sotillo, W., and Das, T. K. 2016. A Computationally Efficient Electricity Price Forecasting Model for Real time Energy Markets. *Energy Conversion and Management* (to appear).
- Feijoo, F. and Das, T. K. 2015 Emissions control via carbon policies and microgrid generation: A bilevel model and Pareto analysis. *Energy*, Vol. 90, Part 2, pg. 1545–1555. doi:10.1016/j.energy.2015.06.110
- Rocha, P., Das, T. K., \*Nanduri, V., and Botterud, A. 2015. Impact of CO<sub>2</sub> cap-and-trade programs on restructured power markets with generation capacity investments. *Electric Power and Energy Systems*, 71 (2015) 195-208.
- Martinez, D. L. and Das, T. K. 2014. Design of non-pharmaceutical intervention strategies for pandemic influenza outbreaks. *BMC Public Health* 2014, 14: 1328, doi: 10.1186/1471-2458-14-1328.
- Abdollahian, M. and Das, T. K. 2014. A MDP model for breast and ovarian cancer intervention strategies for BRCA1/2 mutation carriers. *IEEE Journal of Biomedical and Health Informatics*, DOI 10.1109/JBHI.2014.2319246
- Prieto, D. and Das, T. K., An operational epidemiological model for calibrating simulations of pandemic influenza outbreaks, *Health Care Manag Sci*, 2014, 10.1007/s10729-014-9273-3
- Feijoo, F. and Das, T. K. 2014. Design of Pareto Optimal CO<sub>2</sub> Cap-and-Trade Policies for Deregulated Electricity Networks. *Applied Energy*, vol. 119, pg. 371-383; doi: <http://dx.doi.org/10.1016/j.apenergy.2014.01.019>