FedEx Institute of Technology Continues Commitment to Cyber Security Research

After supporting the University of Memphis push to develop strong research competencies in cyber security during the 2016 academic year, the FedEx Institute of Technology is leading the way in granting research awards for 2017. The Institute has awarded grants to support 10 interdisciplinary projects in this field. The 17 recipients include world-class researchers from seven academic departments in four colleges and schools across the campus, including the Herff College of Engineering, College of Arts & Sciences, Fogelman College of Business & Economics and School of Public Health. Under the program, research fellows are encouraged to collaborate with junior faculty and graduate students to help make the UofM the focal point for cyber security research excellence in the state of Tennessee.

The awards address such cyber security areas as protecting the power grid, cloud computing, citizen privacy, governance in cyber security and health care. The 2017 CAST research awards include:

- Collaborative Monitoring of Moving Target Defense Mechanisms for Cloud Computing (Sajjan Shiva);

- Investigation and Testing of Cyber Security in Protective Relay System of Smart Power Distribution Grid (Mohd Hasan Ali, Dipankar Dasgupta);

- Exploring Cyber Security Issues and Solutions for Energy Storage at Smart Microgrid System (Mohd Hasan Ali, Dipankar Dasgupta);

- Mitigating Ransomware Attacks by Leveraging Isolation Techniques (Bo Chen, Dipankar Dasgupta);

- Protecting Data Security in Smart Internet-of-Things (IoT) Environments (Lan Wang);

- Impact of Privacy Data Events on Consumers (George Deitz, Mehdi Amini, Subhash Jha);

- Design of Gamification for Information Security Awareness and Compliance: An Empirical Study in the Context of Phishing Emails (William Kettinger, Jong Lee, Chen Zhang);

- Corporate Governance Effectiveness and Cyber Security Risk Assessment and Management (Zabi Rezaee, Joseph Zhang);

- Senior Hospital Administrators' Challenges on Emerging Cyber Security in Healthcare: An Exploratory Study Using Q-Methodology (Soumitra Bhuyan, Marian Levy, Dipankar Dasgupta); and,

- Securing Online Review Platforms: An Anomaly Detection Framework Using Advanced Machine-Learning (Naveen Kumar, Deepak Venugopal).

"Now more than ever, companies and organizations across the nation are facing cyber security challenges. The FedEx Institute of Technology's Cluster to Advance Cyber Security & Testing is pushing the boundaries of innovation to address these and other security challenges of the digital age," said Dr. Robin Poston, co-director of CAST.

The 17 researchers will receive their awards and designation as Cyber Security Research Fellows at the Cyber Security Lightning Talks & Reception on Tuesday, Feb. 28. Project leaders will present an overview of their research to the community. The event will be from 5 to 7 p.m. in the Fishbowl at the FedEx Institute of Technology, and is free and open to the public. For more information, or to register for this event, visit fedex.memphis.edu/CAST.

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