



**BIG DATA**

# Interdisciplinary Data Sciences Consortium

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**March 8, 2018 2:00-3:00pm**

**Location: NES 108**

**Presents**

**Dr. Kaushik Dutta**

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## **Title: Blockchain – to Develop Digital Resource Management Application**

**Abstract:** Recently blockchain has emerged as a ledger based platform, which has gained repute in the domain of cryptocurrency technology. The non-modifiable aspect of blockchain makes it a candidate to store the absolute truth that cannot be disputed. Additionally, the distributed nature of blockchain allows all participants of blockchain to have equal control on the system without any single party control. We are seeing growing popularity of blockchain to implement applications in various domains – finance, insurance, health-care, to mention a few. Still, there is a lot of confusion on what blockchain can and cannot do. So far blockchain lacks any standardized interaction framework that makes it easy to understand the capability of the usefulness of blockchain as distributed storage in a distributed applications. In this presentation, first, a brief overview of the blockchain will be provided. We will discuss the pros and cons of the blockchain as a storage platform. Next, we will discuss a generic framework of using Blockchain, specifically Multichain (one particular private blockchain), for sharing digital resources across multiple parties. We explain our framework with the help of two examples from two different domains – healthcare and education.



**Biography:** Dr. Kaushik Dutta is an Associate Professor and Muma Fellow at the Information Systems Department, Muma College of Business, University of South Florida. He is also the Academic Director for the MS in Business Analytics and Information Systems and Weekend Executive MS in Business Analytics and Information Systems program. Kaushik Dutta has 22 years of professional and research experience in the field of enterprise IT infrastructure, data analytics and big data systems. Dutta's current research interest is big data analytics. Dutta's primary expertise combines operations research and data mining techniques with computer science systems knowledge to efficiently handle big data and manage large IT infrastructure. Dutta has published 27 journal and 49 peer-reviewed conference publications, and he also holds patents in the area of IT infrastructure and caching. Dutta has received about 2 million USD fund from public and private organization for research, student project and University IT infrastructure. Dutta has served as a reviewer of many IEEE, ACM and INFORMS journals and conferences. Before joining USF, Dutta was a tenured associate professor at the National University of Singapore and Florida International University. Before starting his academic path, he pursued a career in engineering, most recently as the chief technology officer and vice president of engineering of Mobilewalla, an NUS-incubated and Madrona-funded company that developed big data based mobile advertisement platforms.

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