हैदराबाद विश्वविद्यालय

UNIVERSITY OF HYDERABAD

Distinguished Lecture

New Frontiers in Cloud Computing for Big Data and Internet-of-Things (IoT) Applications

by

Prof. Rajkumar Buyya

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on

Monday, March 27, 2017 at 3.00 pm

Venue

DST Auditorium

Vice-Chancellor will preside

Dr. Rajkumar Buyya is a Fellow of IEEE, Professor of Computer Science and Software Engineering and Director of the Cloud Computing and Distributed Systems (CLOUDS) Laboratory at the University of Melbourne, Australia. He served as a Future Fellow of the Australian Research Council during 2012-2016. He has authored over 525 publications and seven text books. He is one of the highly cited authors in computer science and software engineering worldwide (h-index=108, g-index=225, 56,600+ citations). Microsoft Academic Search Index ranked Dr. Buyya as #1 author in the world (2005-2016) for both field rating and citations evaluations in the area of Distributed and Parallel Computing. "A Scientometric Analysis of Cloud Computing Literature" by German scientists ranked Dr. Buyya as the World's Top-Cited (#1) Author and the World's Most-Productive (#1) Author in Cloud Computing. Recently, Dr. Buyya is recognized as "2016 Web of Science Highly Cited Researcher" by Thomson Reuters.

Dr. Buyya's work is also recognized through the award of "2009 IEEE Medal for Excellence in Scalable Computing", "2010 Frost & Sullivan New Product Innovation Award". He served as the founding Editor-in-Chief of the IEEE Transactions on Cloud Computing. He is currently serving as Co-Editor-in-Chief of Journal of Software: Practice and Experience.

Lecture Abstract

Computing is being transformed to a model consisting of services that are commoditised and delivered in a manner similar to utilities such as water, electricity, gas, and telephony. Several computing paradigms have promised to deliver this utility computing vision. Cloud computing has emerged as one of the buzzwords in the IT industry and turned the vision of "computing utilities" into a reality. Clouds deliver infrastructure, platform, and software (application) as services, which are made available as subscription-based services in a pay-as-you-go model to consumers. The Internet of Things (IoT) paradigm enables seamless integration of cyber-and-physical worlds and opening up opportunities for creating new class of applications for domains such as smart cities. The emerging Fog computing is extending Cloud computing paradigm to edge resources for latency sensitive IoT applications. This talk will cover key aspects of Cloud, IoT and Fog and directions for delivering 21st century vision along with pathways for future research in Cloud and Fog computing.