

Big Data Analytics

(scheduled on 19-02-2018 at 02:30 p.m.)

by

Prof. Gurdeep S. Hura

Department of Mathematics and Computer Science
University of Maryland, Eastern Shore, Princess Anne, MD

Abstract of the Talk:

Most of the organizations are getting data from a variety of sources like operational and transactional systems, facilities management systems, inbound and outbound customers, contact points, mobile devices, webs, scanning and many others. The data is typically in the range of terabytes and petabytes. Higher values like Exabytes, Zettabytes, and Yottabytes are on the horizon. Big data can be defined as an environment where volume, velocity and variety of data exceed the organization's storage or computing power for interpreting an accurate useful information for timely decision making.

In this presentation, we will learn the basics of big data, its applications and role of big data analytics. We will also discuss why is big data analytic important and what does it offer? We will also discuss some challenges in big data analytics.

Profile of the Speaker:

Dr. Gurdeep S. Hura received his B. E. from Jabalpur University (India) in 1972, M. E. from University of Roorkee (India) in 1975 and Ph.D. from University of Roorkee (India) in 1984, respectively.

He was on the faculty of REC, Kurukshetra (India) from 1975-1984, a Post Doctoral Fellow in the Department of Computer Science, Concordia University, Montreal, Canada during 1984-1985, faculty in the Department of Computer Science and Engineering of Wright State University, Dayton, Ohio (USA) from 1984-1993, faculty and visiting research fellow in the School of Applied Science, Nanyang Technological University, Singapore from 1993-1998, Director and coordinator of Department of Computer Science, University of Idaho, Idaho Falls from 1998-2005, Professor and Chair Department of Electrical and Computer Engineering, West Virginia University Institute of Technology, Montgomery, West Virginia from Jan 2005-July, 2006, Professor and Chair of Department of Mathematics and Computer Science, University of Maryland Eastern Shore from July 2006-Sept 2011 and a Professor in the same department since Oct 2011. He was awarded excellence teaching award in 1991 and 2001 and excellence in advising in 2003. He is an author/co-author of over hundred technical papers, which were published, in International IEEE journals and refereed conferences. He guest edited three special issues on "Petri nets and related graph models: Past, Present and Future", 1991, "The Practice of Performance modeling and reliability analysis", 1996, and "Internet: The state of the art", Computer Communication (Elsevier, UK), 1998.

He is a senior member of IEEE and was elevated to Fellow of Society for Design and Process Science in 2002. He has organized tutorials on Computer Networks, Modeling and analysis, Software engineering, Cyber infrastructure, Cyber security and Accreditation Board of Engineering and Technology (ABET) accreditation and has presented invited talks on these in various International Conferences. He was a General Chairman of IEEE EMS Singapore in 1995 and has chaired the technical committees of a number of international conferences. He is a member of editorial board, advisory board and international committees of a number of referred journals and conferences. He supervised 5 Ph.D. dissertations, over 25 MS theses and has been member of Ph.D. external review committees. Currently he is an external committee of a number of Ph.D. committees of different countries. He is co-author of a book on "Data and Computer Communications: Networking and internetworking", CRC Press, 2001 and written six chapters in computer networks, terrestrial networks, dynamicity in social networks, and related areas. He received an external funding of over \$5 M for his research projects in US. He is CAC ABET National and International Program evaluator. He was a consultant to NEC, Inc, Japan on load balancing aspect of its operating system for parallel machine (2000-2004).

He has been listed in Marquis' Who's Who in Midwest, Who's Who in America, Who's Who in Leading Technology, Who's Who in Emerging Leaders of America, and Who's Who in World.