

Networking Developments for IoT: What's In What's Out



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ABSTRACT

Internet of Things (IoT) is currently at the top of the hype cycle with investments from corporations and venture capital firms. Both IoT and Smart Cities share similar issues and challenges. The key areas of research in IoT including security will be explained. In particular, IoT has led to increased use of cloud computing and multi-cloud computing. Recent developments in networking for managing such globally distributed multi-cloud applications will be presented. These developments include virtualization, network function virtualization, and disaggregation. These trends and their impact on networking research along several related myths and issues will be discussed in this talk. We will also talk about research issues in the application of blockchains in IoT and networking.

BIOGRAPHY

Raj Jain is currently the Barbara J. and Jerome R. Cox, Jr., Professor of Computer Science and Engineering at Washington University in St. Louis. Dr. Jain is a Life Fellow of IEEE, a Fellow of ACM, a Fellow of AAAS, a recipient of 2018 James B. Eads Award from St. Louis Academy of Science, 2017 ACM SIGCOMM Life-Time Achievement Award. Previously, he was one of the Co-founders of Nayna Networks, Inc., a Senior Consulting Engineer at Digital Equipment Corporation in Littleton, Mass and then a professor of Computer and Information Sciences at Ohio State University in Columbus, Ohio. With 29,000+ citations according to Google Scholar, he is one of the most cited authors in computer science. Further information is at <http://www.cse.wustl.edu/~jain/>