

# Fundamental Research Challenges for IoT/CPS (a few from the many\*)

Submitted by [John Stankovic](#) on Thu, 11/03/2016 - 9:40am. Contributor:

[John Stankovic](#)

The talk focuses on two major new challenges for the future Internet of Things (IOT) which will rely on CPS solutions. These challenges are the new types of systems of systems issues that arise and the problems due to enormous scaling in numbers and density of smart devices that will exist in the future. **John A. Stankovic** is the BP America Professor in the Computer Science Department at the University of Virginia. He served as Chair of the department for 8 years. He is a Fellow of both the IEEE and the ACM. He has been awarded an Honorary Doctorate from the University of York. He won the IEEE Real-Time Systems Technical Committee's Award for Outstanding Technical Contributions and Leadership. He also won the IEEE Technical Committee on Distributed Processing's Distinguished Achievement Award (inaugural winner). He has seven Best Paper awards, including one for ACM SenSys 2006. He also has two Best Paper Runner Up Awards, including one for IPSN 2013. He has also been a finalist for multiple other Best Paper Awards. Stankovic has an h-index of 108 and over 43,000 citations. In 2015 he was awarded the Univ. of Virginia Distinguished Scientist Award, and in 2010 the School of Engineering's Distinguished Faculty Award. He also received a Distinguished Faculty Award from the University of Massachusetts. He has given more than 40 Keynote talks at conferences and many Distinguished Lectures at major Universities. Currently, he serves on the National Academy's Computer Science Telecommunications Board. He was the Editor-in-Chief for the IEEE Transactions on Distributed and Parallel Systems and was founder and co-editor-in-chief for the Real-Time Systems Journal. His research interests are in real-time systems, wireless sensor networks, wireless health, cyber physical systems, and the Internet of Things. Prof. Stankovic received his PhD from Brown University.

John Stankovic

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