

## A snapshot of NY IEEE Education Committee 2015 Activities

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### Snapshot of IEEE Day 2015 - NY Education Committee & NY SMC

*Leveraging Technology for a Better Tomorrow*



**Network Sciences & Big Data Analytics (Distinguished Lecturer – Dr. Ching-Yung Lin) held on (Oct. 9, 2015) at LIU-Brooklyn.** Dr. Lin is the IBM Chief Scientist, Graph Computing Research and an IBM Distinguished Researcher. He is also an IEEE Fellow and IEEE Distinguished Lecturer. He has been also an Adjunct Professor in Columbia University since 2005 and New York University since 2014. His interest is mainly on fundamental research of large-scale multimodality signal understanding, network graph computing, and computational social & cognitive sciences, and applied research on security, commerce, and collaboration.

In this lecture, Dr. Lin introduced recent R&D works in Network Science, Cognitive Analytics Spatio-Temporal Analysis (for moving objects and IoT), and Behavioral Analysis. From the technical aspect, processing connected and related data has been a big challenge for Big Data Analytics. Linked Big Data Analytics requires novel graph computing platforms. Graph analytics is important for finding the important vertices or edges that are more central, that are clustered, or that form abnormal patterns. Graphical models are essential to artificial intelligence, information reasoning and predictive analysis, which requires combining many factors to create actionable insights. **An IBM major initiative on**

**Graph Computing for Linked Big Data called IBM System G, to pave a potential foundation for the requirement of next generation big data challenges. Please visit <http://systemg.research.ibm.com/download.html> for trial download.**

## **The Coming Age of the Internet of Things**

**(Distinguished Lecturer – Dr. Vinton G. Cerf) held on (November 4, 2015) at NYU Tandon School of Engineering.** Dr. Cerf is Vice President and Chief Internet Evangelist for Google. He contributes to global policy development and continued spread of the Internet. Widely known as one of the "Fathers of the Internet," Cerf is the co-designer of the TCP/IP protocols and the architecture of the Internet. Cerf was Founding President of the Internet Society (ISOC) and is a Fellow of the IEEE, ACM, AAAS and a member of the National Academy of Engineering. This event was sponsored by The Alfred P. Sloan Foundation. It was co-sponsored by ACM, IEEE, and NYU Center for Cyber Security. If you missed, please visit the following link for the video recording:

[http://engineering.nyu.edu/sloanseries/internet\\_of\\_the\\_things.php](http://engineering.nyu.edu/sloanseries/internet_of_the_things.php)

## **IoT Technical Seminars - NY Education Committee & NY SMC**

Additionally, you are invited and encouraged to attend **two upcoming IEEE technical seminars of The Internet of Things** held at LIU-Brooklyn held at LIU-Brooklyn, on **Nov. 20**, and **Dec. 4**, respectively. Directions: [//www.liu.edu/Brooklyn/About/Visit/Directions.aspx](http://www.liu.edu/Brooklyn/About/Visit/Directions.aspx)

### **Technical Seminar - The Internet of Things (IoT)**

**November 20, Friday, 6~ 8:00 PM at LIU-Brooklyn, Room: HS 119**

**Dr. Kevin W. Lu, Adjunct Professor, Stevens Tech., IEEE senior member**

**Abstract:** The Internet of Things (IoT) promises far reaching changes to how we work, play, and live. More and more things are connected, addressable, and controllable via the Internet. It is a technology growth area with considerable commercial possibilities. Many companies have already set their respective IoT strategies. The evolution of the IoT may still play out in the long term. This presentation provides an overview of the IoT. It describes use cases and building blocks such as sensor networks, communication protocols, application programming interfaces (APIs), systems design and management, and data analytics.

### **Technical Seminar - Intelligent Internet of Things (IoT)**

**December 4, Friday, 6~ 8:00 PM at LIU-Brooklyn, Room: HS 119**

**Dr. Shu-Ping Chang, Software Development Manager, IBM T. J. Watson Research Center**

**Abstract:** Internet has proliferated into all aspects of human life and all industries, mobile, social networks, cloud computing and Big Data/Analytic are forming the world now. Everything and everyone are connected to the internet in one way or the other. With data centric as the new economic, this Internet of Things (IOT) brings more challenges to the technologies, industries and human society as a whole. In this dynamics, we will look into the ecosystem of the new era, the nature of the data and introduce to the audience many new markets of the brave new world that affects industries such as Healthcare, Telecom, Transportation, Public Safety, etc. and even your daily life.

## Snapshot of recent activities – NY IEEE SMC & NY Education Committee



**Building Next Generation Physical Meets Digital Solution, (Keynote Speaker - Dr. Hendrik Hamann, Manager, Physical Analytics, IBM Thomas J. Watson Research Center), February 27, 2015 at LIU-Brooklyn.**

[http://researcher.watson.ibm.com/researcher/view\\_group.php?id=1836](http://researcher.watson.ibm.com/researcher/view_group.php?id=1836)



**Immersive Technology, (Keynote Speaker - Dr. George Chang, Dean, the College of Natural, Applied and Health Sciences, Kean University, New Jersey) May 8, 2015 at LIU-Brooklyn. Please visit Technical Seminar Video <http://youtu.be/T4nXcjPwaeI>** Dr. George Chang invited us to visit CAVE - 3-D Virtual Environment of Kean University in the near future.

<http://www.kean.edu/~collnabs/cave.html>





**The Big Data Challenge: From Machine Learning and Pattern Recognition Perspective – Distinguished Lecturer – Prof. Daniel So Yeung**, South China University of Technology, IEEE Fellow, Joint event with IEEE North Jersey Section .March 6, 2015, Friday, LIU-Brooklyn



**Technical Seminar - The Internet of Things (IoT)**  
**November 20, Friday, 6~ 8:00 PM at LIU-Brooklyn, Room: HS 119**  
**Dr. Kevin W. Lu, Adjunct Professor, Stevens Tech.**

**Joint event sponsored by**

Education Committee, IEEE NY Section [http://www.ewh.ieee.org/r1/new\\_york/](http://www.ewh.ieee.org/r1/new_york/)

New York Chapter of IEEE Systems, Man, Cybernetics (SMC) Society

<http://ny-ieee-smc.weebly.com/>

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