



Internet of Things

Technical Challenges and Business Opportunities

Innovation Theme Panel
ICNC 2015
February 18th, 2015





What exactly is the
"INTERNET
of THINGS"?

Internet of Things

From Wikipedia, the free encyclopedia

The **Internet of Things (IoT)** is the network of physical objects or "things" embedded with electronics, software, sensors and connectivity to enable it to achieve greater value and service by exchanging data with the manufacturer, operator and/or other connected devices. Each thing is uniquely identifiable through its embedded computing system but is able to interoperate within the existing [Internet](#) infrastructure.



IEEE INTERNET OF THINGS JOURNAL

A joint publication of

IEEE Sensors Council, IEEE Communications Society, IEEE Computer Society, and IEEE Signal Processing Society



HBR.ORG
Harvard Business Review

NOVEMBER 2014

47 **The Big Idea**
The HBR List of Best-Performing CEOs 2014 edition

100 **Spotlight**
The New Deal on Data
An interview with Alex "Sandy" Pentland

133 **Case Study**
Do Business and Politics Mix?
Brian K. Richter

THE INTERNET OF EVERYTHING
Smart, connected products will transform your business **PAGE 64**

2ND ANNUAL

Internet of Things WORLD

May 12-13, 2015

Moscone Center, San Francisco

The world's largest & most comprehensive IoT event



IoT Summit 2015
 March 5-6, 2015
 Convention Center
 Santa Clara, CA, USA



INTERNET OF THINGS DEVELOPERS CONFERENCE

MAY 6-7, 2015 - HYATT REGENCY - SANTA CLARA, CA

Resolving the Technical and Business Challenges of Getting Connected to the Internet of Things



3rd International Workshop on
Pervasive Internet of Things and Smart Cities
 in conjunction with AINA-2015 International IEEE Conference
 Gwangju, South Korea
 March 24-27 2015
PITSaC 2015
 AINA



Internet of Things Applications EUROPE

CONNECTING THE EDGE
 28 - 29 April 2015 | Berlin, Germany

IEEE World Forum on Internet of Things (WF-IoT)



FiCloud 2015
 The 3rd International Conference on Future Internet of Things and Cloud

WF-IoT was held in Seoul, Korea, 6-8 March 2014

24-26 August 2015, Rome, Italy

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Technical Challenges and Business Opportunities

Organizer & Moderator:

Khaled El-Maleh- Technologist and Strategist, Qualcomm

Panelists:

- **John Apostolopoulos**- CTO and Vice President, Cisco
- **Nikhil Balram**- President and CEO, Ricoh Innovations Corporation
- **Daniel Obodovski**- Founder and Managing Director Diosys Technologies LLC; Managing Partner, DND Ventures LLC

Panel Format:

- Each speaker will present for about 10 minutes
- 20-minute Q&A



John Apostolopoulos

VP & CTO of the Enterprise Networking Group (ENG) at Cisco. ENG is a \$20B/year business that covers wired and wireless networking, mobility/BYOD, SDN, Internet of Things, and video over enterprise networks.

Founder of the Enterprise Networking Labs whose goal is to increase innovation in areas of strategic importance to ENG.

Previously John was Lab Director for the Mobile & Immersive Experience Lab (MIX Lab) at HP Labs.

John received a number of honors and awards for his individual technical contributions including IEEE SPS Distinguished Lecturer, IEEE Fellow, named “one of the world’s top 100 young (under 35) innovators in science and technology” (TR100) by MIT Technology Review.

He has published over 100 papers, received several paper awards, and has 60 granted US patents.

He received his B.S., M.S., and Ph.D. from MIT.



Nikhil Balram

President and CEO of Ricoh Innovations Corporation, a Silicon Valley company that develops innovative technologies and creates new businesses for Ricoh Company Ltd.

With over 20 years of experience, Dr. Balram is widely hailed throughout the industry and academia as an expert and innovator in advanced information technologies and has been an officer of several publicly listed companies.

He has won numerous awards including a 2012 Gold Stevie® Award for Executive of the Year in the Electronics category in The 9th Annual International Business Awards, a 2012 Fellow Award by the Society for Information Display (SID) and the 2011 Alumni Achievement Award by Carnegie Mellon University.

He has over 100 US and international patents granted or pending, more than 40 technical publications, including two invited book chapters, and has given over 25 keynote speeches at major conferences and events worldwide,

He received his B.S., M.S. and Ph.D. in electrical engineering from Carnegie Mellon University.



Daniel Obodovski

Founder and Managing Director of Diosys Technologies LLC, and Managing Partner of DND Ventures LLC.

In 2013 Daniel co-authored "The Silent Intelligence: the Internet of Things", a book about an upcoming technology revolution, together with Daniel Kellmerit of Detecon USA.

Prior to launching his own companies, Daniel was Director of Business Development at Qualcomm, where he led the commercial launch of multiple M2M products and businesses. Prior to that, Daniel was Director of Strategic Marketing and Business Development at Motorola Germany.

In 2011 Daniel co-founded, and currently co-chairs, M2M SIG at CommNexus San Diego. Currently he also curates TEDx San Diego.

Daniel holds an MBA degree from the University of South Carolina in cooperation with Vienna University of Economics and Business Administration, as well as a Master's degree from the Moscow State Lomonosov University.

謝謝您 MAHALO
Merci Obrigado Danke
Thank You!
Grazie DANK U
どうも有難う Diky
GRACIAS
D'akiyem