ITU Kaleidoscope 2015 Trust in the Information Society

Fast-Forward Poster Session >>



ITU Kaleidoscope 2015
Trust in the Information Society

MUNIQUE: Multiview No-Reference Image Quality Evaluation

Marcelo S. Alencar

Federal University of Campina Grande, Brazil malencar@ieee.org



MUNIQUE: Multiview No-Reference Image Quality Evaluation

- MUNIQUE is a novel no-reference algorithm for stereoscopic image quality assessment that is based on the estimation of bluriness, blockiness, and disparity
- LIVE 3D Image Quality Database Phase I, which includes stereoscopic images impaired by Rayleigh fading and Gaussian blur, was used to validate the proposed mathematical and algorithmic approaches
- Statistical measures (correlation coefficients, confidence intervals, etc) show that MUNIQUE outperforms state-of-the-art and recently proposed algorithms. Furthermore, it also performs well in comparison with full-reference algorithms



Trust in the Information Society

A PRESENTATION FORMAT OF ARCHITECTURE DESCRIPTION BASED ON THE CONCEPT OF MULTILAYER NETWORKS

Andrey A. Shchurov, Radek Marik

Department of Telecommunication Engineering

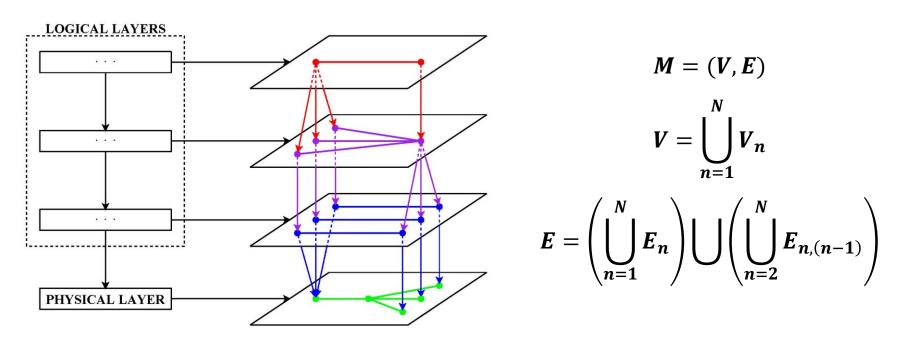
Czech Technical University in Prague - Faculty of Electrical Engineering

Session#, Title
Name of Session Chair
Organization



Multilayer Model of Network Systems

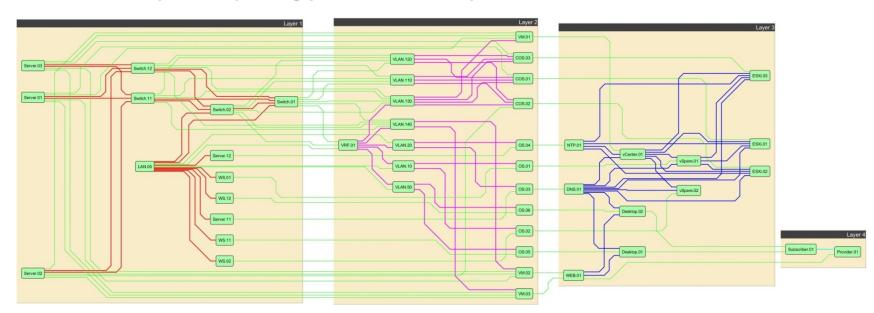
Complex computer networks can be denoted as a hierarchical multilayer projection network (a labeled 3D graph):



- Vertex labeling defines a set of supported communication protocols
- Edge labeling defines a set of used communication protocols

A Presentation Format A trusted model from the viewpoint of network/system designers

- Layer component specification (components detail representation).
- Intralayer topology specification (layer topology detail representation).
- Interlayer topology specification (resources distribution cross-layer topology – detail representation.



Trust in the Information Society

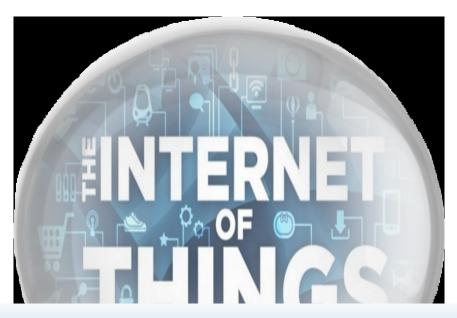
Privacy, Consumer Trust and Big Data: Privacy by Design and the 3 C's

Michelle Chibba

Ryerson University, Canada michelle.chibba@Ryerson.ca

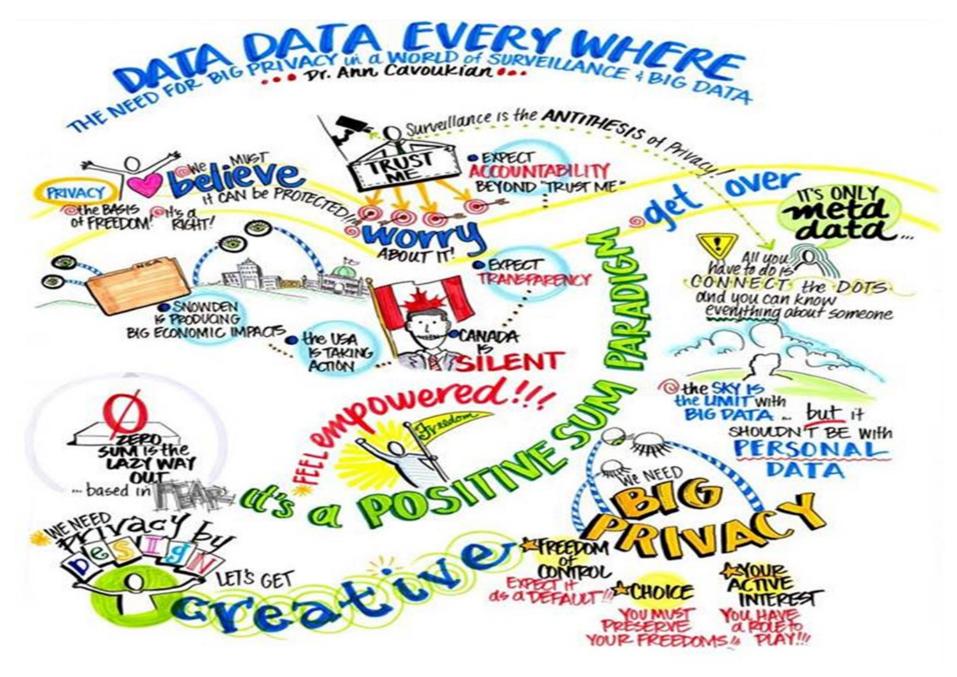


PREDICTION: # OF DEVICES CONNECTED TO THE INTERNET IN 2020



25 – 50 BILLION DEVICES





DATA ASSETS

PRIVACY GOALS: SECURITY GOALS: UNLINKABILITY CONFIDENTIALITY **TRANSPARENCY** INTEGRITY **INTERVENABILITY AVAILABILITY**

PRIVACY

BIG DATA INSIGHTS



Barcelona, Spain, 9-11 December 2015 ITU Kaleidoscope 2015 - *Trust in the Information Society*

PRIVACY BY DESIGN AND THE 3 C'S

- 1. Proactive not Reactive Privacy Measures
- 2. Privacy by Default
- 3. Privacy Embedded into Design
- 4. Positive-sum/Full Functionality
- 5. End-to-end Security
- 6. Accountability = Visibility, Transparency
- 7. Respect for User Privacy– User-centric design

Consultation

Co-operation

Collaboration

PRIVACY BY DESIGN AND THE 3 C'S

- Online Trust Alliance (OTA) IoT Trust Framework
- Pharmaceutical Users Software Exchange (PhUSE) De-identification standard
- Assessing Surveillance Technologies (SURVEILLE – Surveillance: Ethical issues, Legal limitations and Efficiency)

Trust in the Information Society

P.4 SOSLite: Lightweight Sensor Observation Service (SOS) for the Internet of Things (IoT).

Juan Vicente Pradilla, Carlos Palau, Manuel Esteve (Universitat Politecnica de Valencia, Spain)



Trust in the Information Society

Future Mobile Communication Service on Balance between Freedom and Trust

Yoshitoshi Murata

Iwate Prefectural University, Japan y-murata@iwate-pu.ac.jp



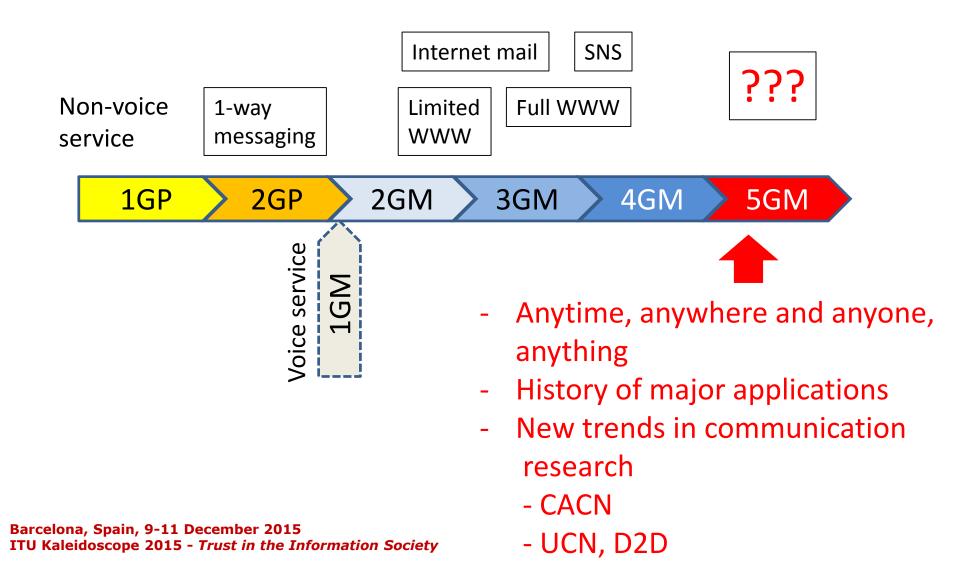
Background and Purpose

- What kinds of applications will lead mobile communication markets in 5G-era and more future?
 - Traffic safety, Smart cars, Mobile healthcare, IoT, ---, ?
- Who will provide 5G service?
 - Mobile communication carriers as same as 4G?
 - Anybody deploy base stations as same as WiFI?
 - or ????

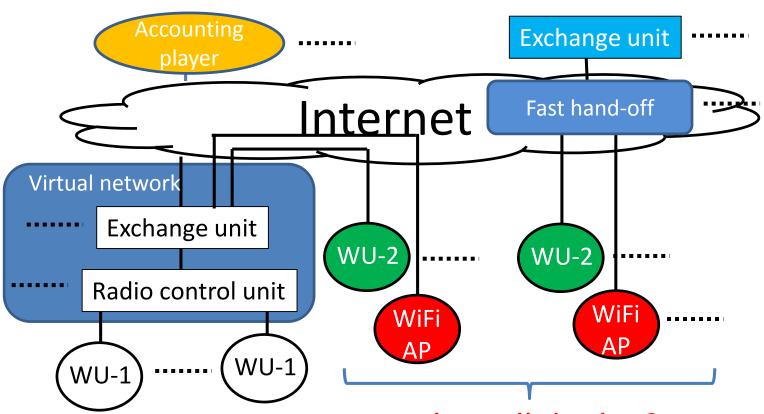


- Forecast killer applications based on basic demands / history / research trend of existing mobile communication service.
- Consider scenarios who will provide indoor wireless units and voice exchange units.

What kinds of application will lead mobile communication markets?



Who will deploy communication equipment?



*WU-1: Wireless unit for outdoor

*WU-2: Wireless unit for indoor

Who will deploy?

- Initiative
- Frequency band allocation

Mauritius eHealth – Trust in the Healthcare Revolution

Dr. Bholah Leckraj Amal (MSc Global eHealth University of Edinburgh)

Dr. Beharee Kemley (MBBS, University of Mauritius)

What is eHealth?

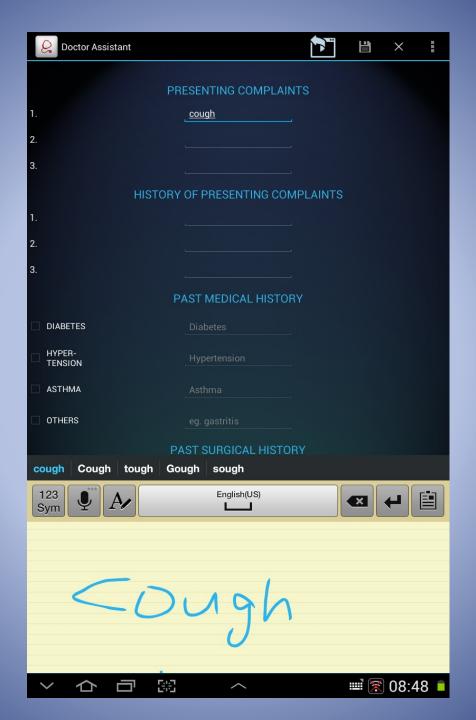
eHealth is the use of ICT for health
 World Health Organization (WHO)

• It is concerned with improving the flow of information, through electronic means, to support the delivery of health services and the management of health system

National eHealth Strategy Toolkit

Doctor Assistant

- Electronic Medical Record Application
- Available on Google Play for FREE
- Has 2870 worldwide downloads
- Coded by two medical Doctors in the world
- Published in WHO Compendium of Innovative Health Technologies for Low-Resource Setting 2014



Trust in the Information Society

Fast-Forward Poster Session



For more information and details, please see the authors, 1230-1330, in front of the Cafeteria