

IEEE CCNC 2014 Demonstration Program

Room: Celebrity 1

Saturday, January 11, 2014
13:00 – 14:00 & 18:00 – 19:30

Sunday, January 12, 2014
13:00 – 14:00

A Secure Cloud of Electronic Keys for NFC Locks Securely Controlled by NFC Smartphones

Pascal Urien (Télécom ParisTech, France)

This demonstration shows an innovative and secure framework targeting access control in the internet of things, with NFC (Near Field Communication) enabled smartphones.

Ultra-Low Latency Energy-Efficient Internet for Cloud Computing

Ted H. Szymanski (McMaster University, Canada)

An Enhanced-Internet network which can achieve 'ultra-low-latency' energy-efficient communications for cloud services will be demonstrated.

Adaptive Multi-Gateway Mesh Network

Takaaki Kawai, Naoki Yusa, Hiroshi Mineno (Shizuoka University, Japan)

A system with which anyone can build a network easily anywhere is needed in disaster areas and developing countries where the communication infrastructure is unstable.

Parallel Implementation of Public Key Cryptosystems using Web Workers

Takuya Sumi (Kyushu University, Japan)

Tsukasa Ishiguro, Shinsaku Kiyomoto, Yutaka Miyake (KDDI R&D Lab Inc., Japan)

Toru Kobayashi (Nagasaki University, Japan)

Tsuayoshi Takagi (Kyushu University, Japan)

Web Workers is a specification that defines an API which allows Web application developers to use background workers running scripts in parallel.

Browser-based Web Content Sharing System

Sanghong An, Hyeontaek Oh, S. M. Park, Jinhong Yang, Jun Kyun Choi (KAIST, Korea)

This demonstration will show the novel method to distribute watching partial web contents to other screen in web browsing environment.

Gas Leak Detection and Localization System Through Wireless Sensor Networks

Petros Spachos (University of Toronto, Canada)

Liang Song (University of Shanghai for Science and Technology, China)

Dimitrios Hatzinakos (University of Toronto, Canada)

In this demonstration, we will use a prototype of a Wireless Sensor Network (WSN) to monitor and locate gas leaks of a complex indoor environment.

Wireless Multihop Networking for a Scalable Indoor Temperature Monitoring System

Petros Spachos (University of Toronto, Canada)

Liang Song (University of Shanghai for Science and Technology, China)

Dimitrios Hatzinakos (University of Toronto, Canada)

In this demonstration, a novel network architecture of opportunistic routing is introduced, based upon the cognitive networking concept which opportunistically utilize the network resources, including both spectrum and station availability.

A Small Gadget for User Generated Live Streaming

Tomoki Yoshihisa (Osaka University, Japan)

This demo proposes a small gadget for user generated live streaming.

Real-time Multimedia Streaming in Unstructured Peer-to-Peer Networks

Benjamin Rainer, Christian Timmerer (Alpen-Adria-Universität Klagenfurt, Austria)

Matthias Klusch, Patrick Kapahnke (DFKI, Germany)

Our approach is based on semantic search in unstructured peer-to-peer (P2P) networks for querying content in mobile ad hoc networks and MPEG-DASH for actually streaming the real-time multimedia.

HybridEarth: Social Mixed Reality at Planet Scale

Jean de Campredon (Telecom ParisTech, France)

Raluca Diaconu (Orange Labs, UPMC/LIP6, France)

Joaquin Keller (Orange Labs, France)

Elodie Triponez (EPFL, Switzerland)

Using Google StreetView navigable imagery and adding users' avatars to it, we implemented a virtual world copy of the real world.

Hierarchical Automatic Speech Recognition powered by Data Infrastructure

Arun Jagatheesan, Jong Hoon Ahn (Samsung, USA)

Juhan Lee (Microsoft, USA)

Juhan Lee (Samsung, USA)

Consumer Electronics, Smart Phone, Automatic Speech Recognition, S-Voice, Data infrastructure

IEEE CCNC 2014 Demonstration Program (continued)

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13:00 – 14:00**iCasa, A Development and Simulation Environment for Pervasive Health Applications**Clément Escoffier (Grenoble University, France)
Philippe Lalanda (Laboratoire LSR IMAG, France)
Catherine Hamon (Orange, France)

In this demonstration, we will present an integrated environment for the development, test and execution of pervasive applications in the home context.

Using Malicious Media Files to Compromise the Security and Privacy of Smart TVs

Benjamin Michéle, Andrew Karpow (Berlin Institute of Technology, Germany)

In this demo, we will show a practical attack against the built-in media player feature of Samsung's Smart TVs.

LTE Portable Network for Private and Emergency Use

Gianluca Verin (Athonet, Italy)

This demo will show how a private LTE network can offer privileged access to voice and video services for enterprise/ government.

IoT Gadget Control on Wireless AP at Home

Jinhong Yang, Hyojin Park, Yongrok Kim, Jun Kyun Choi (KAIST, Korea)

This demonstration will show the IoT gadget registration, monitoring and control on the wireless AP.

Storage to Energy Calculator

Arie Taal, Marc Makkes, Paola Grosso (University of Amsterdam, Netherlands)

In this demonstration, we will allow conference visitors to use our website/calculator to get a sense for the impact of offloading their storage and computational tasks.

Multiplatform Games for Dyslexia Identification in PreschoolersAndrea Facchetti, Sandro Franceschini, Ombretta Gaggi, Giorgia Galiazzo, Simone Gori, Claudio E. Palazzi (University of Padua, Italy)
Milena Ruffino (Scientific Institute IRCCS Eugenio Medea, Italy)

One of the main challenges is to be able to identify Dyslexia in preschoolers. To address this, we have developed a set of serious games that are the core of this demonstration.

Ultra-Scale Environmental Monitoring - The Intelligent River[®]

Vamsi Gondi, Chuck Cook, Jason Hallstrom, Gene Eidson, Christopher Post (Clemson University, USA)

Volume of data in these Real-time streams can quickly overwhelm monitoring systems, communication infrastructure and downstream processing system. To address these issues, we designed the Intelligent River[®], a three layer architecture consisting of a sensor fabric, a data communication network and a data analytics system.

Advanced Cloud-based Systems and Smart Mobile Devices for Mega Event Pilgrimage Ritual Management

Sami S. Al-Wakeel (King Saud University, Saudi Arabia)