

IEEE ComSoc is at CES with a booth, a demo, and yes, hosting a conference of its Own



Focused on helping the consumer electronics industry drive the next wave of anytime/anywhere communications, [IEEE CCNC 2012](#) (IEEE Consumer Communications Networking Conference) consists of nearly 400 keynotes, panels, workshops, tutorials and special sessions designed to advance the development and deploy of technologies fostering new generations of easy-to-use, secure and stunningly interactive experiences.

ComSoc/CCNC will demonstrate prototypes of the new CAPTCHA techniques for securely downloading keys in RFID devices as well as the latest access control systems for enhancing character recognizability in tablet devices at the [2012 International Consumer Electronics Show \(CES\)](#) January 10 – 13 in Las Vegas.

Both demonstrations will be on display at the **IEEE ComSoc/CCNC booth #35307** located in the **South Hall of the Las Vegas Convention Center** and serve as extensions of the **9th annual IEEE Consumer Communications Networking Conference (CCNC)** located at Planet Hollywood in Las Vegas, Nevada from January 14 – 17, 2012.

As an introduction to **IEEE CCNC**, visitors to the **IEEE ComSoc/CCNC booth at CES 2012** will have the opportunity to learn first-hand about the latest methods for securely downloading keys in RFID devices, from an Android NFC enabled mobile.

Today most electronic ticketing or physical access control systems work with Mifare components. This demonstration presented by leading researchers from Telecom ParisTech and EtherTrust will showcase “A New Keying System for RFID Lock Based on SSL Dual Interface NFC Chips and Android Mobiles.” It includes the use of a dual interface RFID running a trusted SSL/TLS stack. As a result, the keys are securely downloaded from WEB servers and afterward used by legacy Mifare systems, such as electronic locks, in order to perform HTTPS operations supervised by Android mobile phones.

In the second demo performed at the **IEEE ComSoc/CCNC booth (#35307)**, representatives from Venture Business Laboratory, Kyoto University and Mutech Trail Inc. will detail a new CAPTCHA technique designed to overcome the usability problems of mobile tablet devices such as smartphones, which do not use keyboards. This entails utilizing multiple noise images instead of twisted characters where invisible objects or messages are hidden. Subsequently, with this new technology objects appear when two images are overlapped at a certain position to resolve the recognizability of characters. Tablet users are then enabled to easily move images with only a finger and without the use of keyboards.

IEEE CCNC 2012 (Consumer Communications & Networking Conference) Website: www.ieee-ccnc.org/2012

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