

# GLOBAL Communications NEWSLETTER

February 2013

## IEEE DAY 2012 at Mehran University, Pakistan

By Saad Kalwar and Syed M. Zafi S. Shah

IEEE day 2012 was celebrated in Mehran University of Engineering & Technology (MUET), Jamshoro, Pakistan on Monday, 8th October 2012. This event was organized by IEEE-MUET in collaboration with IEEE Communica-

tions Society - Karachi Chapter. The event included seminars on diverse topics such as blogging, creative writing and cognitive radio networks.

Chairman, Department of Telecommunication Engineering at MUET, Prof. Dr. Aftab A. Memon in his inaugural speech highlighted the success story of IEEE. He said that IEEE has become a worldwide network of students, engineers and scientists in fields of electronic, electrical, computer, telecommunication, biomedical engineering etc. After the speech, he presented certificates of appreciation to the members of the Faculty of Electrical, Electronic and Computer Engineering (FEECE-MUET) newsletter for their contributions.

The first presenter of the day was Ms. Bushra Shaikh, who discussed the tips and tricks for creative writing. She highlighted the importance of developing writing skills for engineering students, as they go through the process of writing dissertation and subsequently research papers. Creative writing, she said was the quickest way to hone writing skills because this involved the tasks of brain storming and arranging a train of thought. She used various activities to make the seminar more interactive.

The second presentation was on blogging by Mr. Hasan Qureshi, who is studying in the final year of the undergraduate course in Telecommunication Engineering at MUET. He said that in the era of globalization, it seems everyone is aware of social networks, blogs etc. but actually very few write their own blogs, which he encouraged. He later discussed the dos and don'ts of blogging.

The final presentation was on the topic Cognitive Radio Networks by Dr. Fahim A. Umrani who works as an Associate Professor in the Department of Telecommunication Engineering. He said that the future of wireless communication systems is smart, reconfigurable communication systems which can adapt themselves according to the user requirements, but before this can be realized, a lot of work still needs to be put in to this technology. He shared the latest research work being carried out in this field by the faculty of the Department of Telecommunication Engineering.

After the presentations, Dr. Faisal K. Shaikh, Associate Professor in the Department of Telecommunication Engineering, delivered a vote of thanks and presented certificates of participation to the students in attendance.



Picture (top left to bottom right): Chairman, Department of Telecommunication Engineering, Prof. Dr. Aftab A. Memon addressing the participants, Ms. Bushra Shaikh talking about importance of creative writing, Mr. Hasan Qureshi discussing the dos and don'ts of blogging, Dr. Fahim A. Umrani, talking about cognitive radio networks and Dr. Faisal K. Shaikh presenting a shield to Ms. Bushra Shaikh as a token of appreciation for her participation at the IEEE Day 2012.

# As The Cloud Incubator Hub at Technical University of Cartagena, Spain

By Pilar Manzanares López, Juan Pedro Muñoz-Gea, Spain

"If you have an idea, have a work". Starting from this motto, the Technical University of Cartagena (UPCT, [www.upct.es](http://www.upct.es)) has set up Cloud Incubator HUB ([www.cincubator.com](http://www.cincubator.com)), an initiative that aims to encourage and support the enterprising spirit in the ICT and, more specifically, in the field of applications for last generation mobile devices. Cloud Incubator HUB is an incubator/accelerator of companies whose objective is the creation startups under Application for Mobile Devices (Apps), Internet TV, Internet of Things and Cloud Computing.

The project will not only serve to enable entrepreneurs to carry out their projects. It also wants to promote a genuine culture of generating ideas and interest in the world of apps in the universities and the Spanish company in a sector with enormous economic potential for development.

Cloud Incubator HUB has privileged facilities in the Center for Technological Innovation (CEDIT) of the UPCT in the Fuente Alamo Technology Park (Murcia, Spain) ([www.ptfuentelamo.com](http://www.ptfuentelamo.com)), which promotes collaborative work between young entrepreneurs and networking with experts in several areas (venture, creativity, art, education, research, industry, entertainment, tourism, and so on.).

Cloud Incubator HUB is open to all entrepreneurs, both inside and outside Spain, having an idea and want to become business. For this, they offer the following services for a period of six months that are considered sufficient to study the feasibility of technological and business startup: Collaborative space where entrepreneurs develop their business by sharing your expertise with other entrepreneurs; technology training and business-oriented type of startups emerging in the field of HUB; accompaniment by mentors from the initial design stages of the startup until the entry of investors for final release as a company; computer equipment and machinery for development of applications and gadgets; meeting, assembly hall, leisure and rest areas, car parking, etc.; access to legal advice and business; access to a residence on economically advantageous terms.

The first phase of the project (from January 2012 to September 2012), that is known as Cloud Starting, set as

objective to help young entrepreneurs and college students to create gadgets and applications for smartphones. Thus, Cloud Incubator HUB has offered support to 10 startups (Appopulus, BrainGAPPS Creative Engineering, CompraActiva, GiiKapps, KRC Creativos, ArtyBeer, Lurestore, Mileyenda, Onarios app's y TBA) focused on the creation of apps.

The startups develop the technical work in the creation of technological products in parallel with business training. Through the first six months of forming, they evolve in different areas that have the opportunity to attend for the acquisition of new knowledge, including workshops emphasize entrepreneurship, workshops Android, courses iOS, Business Plans etc. The startups of Cloud Incubator Hub, are brought together in a collaborative work environment -coworking- the necessary infrastructure to act as company, have a small reference library and the furniture and equipment and computer telematics necessary to carry out your project successfully.

All startups are participatory, therefore describe their experiences and achievements in the various events celebrating Cloud Incubator Hub (Cloud Afterhours -networking, Demo Day-round investors), and also participate in seminars and promotional events national, enhanced with an expansive work of information through different media, in order to get noticed and promoted. Proud of them have participated in various contests and competitions getting first awards qualifying.

Of course the various startups evolve with the support of their guardians, mentors and all the staff at Cloud Incubator Hub, that help them and guide them every day, to achieve the formation of your company and subsequent consolidation.

Among the developed applications, two apps stand out. "San Valentin 2012", an Android app based on Valentine's Day, which allows users to send a customized postcard from different platforms (mail, whatsapp, mms, bluetooth...) was downloaded more than 12,000 times in only three days. "S-Remote Control", an app that will allow to control multiple devices through the network, WIFI/3G, has been also downloaded more than 400,000 times.

In addition to this, several custom applications, required by private companies and civil services, have been developed. Among them, it can be highlighted an app to manage emergency situations, like the earthquake in Lorca (Spain) just a year ago. As a result of all this activity, five new startups have been formalized, and other four ones are about to be set up.

The second and third phases of Cloud Incubator HUB will take place from October 2012 to March 2013 and from April 2013 to September 2013. The second phase has been promoted nationwide and it will count on 30 new entrepreneurs from different places of Spain. On the other hand, it is intended to use the third phase to internationalize the Cloud Incubator HUB, opening it to entrepreneurs from other countries located inside and outside the European Union, especially from the Nordic coun-

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The team of the Cloud Incubator HUB at Technical University of Cartagena, Spain.



# IEEE HEALTHCOM 2012, Beijing, China, October 2012

By Jian SONG and Jijiang YANG, Tsinghua University, Beijing, China

The 2012 IEEE 14th International Conference on e-Health Networking, Applications and Services (IEEE HealthCom 2012) was held between October 10 and 13, 2012, in Beijing, the capital city of China. Beijing is an old city with the history of being capital for more than 800 years and a modernized international metropolis as well, hosting 2008 Olympic Games.

IEEE HealthCom conferences have been successfully held yearly since its inaugural conference in Sydney, Australia in 1999, and this year's conference is hosted by Tsinghua University, one of the most renowned comprehensive universities in China with the history of over 100 years. The HealthCom conference aims at bring together interested parties from around the world working in the health care field to exchange ideas, to discuss innovative and emerging solutions, and to develop collaborations. E-Health is defined by WHO as the cost-effective and secure use of information and communications technologies in support of health and the related fields, including health-care related services, surveillance, literature, education, knowledge, and research, both at the local site and at a distance. It will make personalized medicine possible and affordable in the near future. The adoption of e-Health technologies in medical fields creates huge opportunities yet lots of challenges still need to be resolved to build reliable, secure, and efficient networks or platforms with great flexibility.

This year's conference is a 4-day program. There are two workshops on Traditional Chinese Medication and Industrial Applications and Services on e-Health, respectively on the

first day, and it is the first time that the HealthCom conference introduces the workshop programs on Traditional Chinese Medication. The second day and third day events feature the keynote speeches, general track for both regular and short papers. There are four keynote speeches on the second day right after the welcome remarks from Prof. Jian Song as the general chair and Prof. Jun Li as the deputy director as the Tsinghua National Laboratory of Information Science and Technologies. The four keynote speakers and the titles of their speeches are:

- "Informationization Strategy for Supporting Medical Reformations" by Mr. Jianping HU, Statistic Information Center of MOH, China.
- "e-Health Development: Challenges and Opportunities" by Dr. Tsong-Ho WU, Industrial Technology Research Institute (ITRI), Taiwan.
- "Mobile Health Trends and Challenges" by Prof. Joel Rodrigues, Instituto de Telecomunicações, University of Beira Interior, Covilhã, Portugal.
- "Biochip enabled translation from central laboratory to portable laboratory" by Prof. Jing CHENG, the Chinese Academy of Engineering, Tsinghua University, China.

In the afternoon of the second day and continuing to the third day, more than 100 papers are presented at the conference and authors are from more 30 countries and regions. Those papers cover the areas including but not limited to:

- Biomedical and biosensors engineering
- Body sensor networks and wearable sensor systems

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IEEE HEALTHCOM 2012 keynote speakers and registration desk. The keynote speakers are: Wu Tsong-Ho, ITRI, Taiwan; Joel Rodrigues, University of Beira Interior, Portugal; Cheng Jing, Tsinghua University, China.

- Clinical biofeedback, decision support systems, and tools
- eHealth information and network Infrastructure
- eHealth for public health (including disease prevention, emergency preparedness, epidemiologic interventions)
- eHealth for ageing (to support quality of life for older adults, aging in place and independence)
- Emerging eHealth applications
- Health grid and health cloud
- Health monitoring, traffic characterization, & management
- ICT-enabled personal health system
- Image and video processing on eHealth
- Network/Communications Infrastructures and Architectures for Healthcare
- New IT-enhanced Models for Healthcare delivery
- Pervasive and ubiquitous computing on eHealth
- Practical Applications of e-Health
- Security and privacy on eHealth
- Storage and Display Devices for eHealth
- Telemedicine and mobile telemedicine

It must be pointed out that due to the high competition and limited time duration, some high quality papers have to be rejected.

For the fourth day, a training workshop collaborated with European Union is organized by ITRI of Taiwan. The workshop focused on introducing universAAL platform, which is supported by EU. It is an open platform to provide a standardized approach making it technically feasible and economically viable to develop ambient assisted living(AAL) solutions.

Many, many colleagues serving as the TPC members (with their names on the conference website) in e-Health and closely related areas have devoted their much valuable time and energy to ensure the success of this year's HealthCom conference. Volunteers have done an excellent job to make the logistics of the whole conference running very smoothly.

Following also lists some of the individuals who have contributed a lot to HealthCom2012.

### Organizing Committee

General Chair: Prof. Jian Song, Tsinghua University, Beijing, China.

Program Chairs: Prof. Jijiang Yang, Tsinghua University, Beijing, China

Prof. Kaoru Sezaki, Univ. of Tokyo, Japan

Prof. Nazim Agoulmine, University of Evry Val d'Essonne, France

### Workshop Chairs:

- For Traditional Chinese Medicine

Prof. Baoyan Liu, China Academy of Chinese Medical Science?China

Prof. Xuezhong Zhou, Beijing Jiaotong University, Beijing, China

Prof. Josiah Poon, Sydney University, Sydney, Australia

- For Industrial Applications and Services on e-Health

Prof. Guixia KANG, Beijing University of Posts and Telecommunications, China

Dr. Qiang GAO, IVT Software Technology Corporation, China

Dr. Zhong YU, Meridian Medical Network Corporation, China

**Local Chair:** Prof. Yongqiang Lu, Tsinghua University, Beijing, China

**Publication Chair:** Prof. Jintao Wang, Tsinghua University, Beijing, China

### HealthCom Steering Committee:

- Professor Joel Rodrigues (Instituto de Telecomunicações, University of Beira Interior, Covilhã, Portugal) (Chair)

- Dr. Tsong-Ho Wu (Industrial Technology Research Institute, Taiwan)

- Professor Pradeep Ray (University of New South Wales, Australia)

- Professor Norbert Noury (University of Lyon, France)

- Professor Chi-Ren Shyu (University of Missouri, Columbia, MO, USA)

The IEEE HealthCom 2013 will be hosted in Lisbon, the capital city of Portugal, in October 09-12, 2013. Please access the website <http://www.ieee-healthcom.org/2013/>.

## CLOUD INCUBATOR/continued from page 2

tries (Sweden, Norway and Finland). For that, the Cloud Incubator HUB has obtained a public support from the "Emprendemos Juntos" program funded by the Government of Spain.

In parallel, Cloud Incubator HUB tries to become a reference in entrepreneurship topics related to Information Technologies within Latin America. For that, different specific training programs for highly topical subjects (Business Model, On-line Marketing, Professionals 2.0, iOS, Android, Arduino, Social Networks, HTML5, Physical Computing, Interactive Environments...) are being prepared to be available to all the members of the Cloud Incubator Education social network (<http://social.cincubator.com>).

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[www.comsoc.org/gcn](http://www.comsoc.org/gcn)

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