

## **Report**

Eleventh International Conference

on

Wireless and Optical Communications Networks

WOCN-2014

K L University

11<sup>th</sup>-13<sup>th</sup> September,2014

CSE Department's joy knew no bounds when it came to know several months ago that K L UNIVERSITY is selected to host the 11<sup>th</sup> International Conference on Wireless and Optical Communication Networks (WOCN-2014) by IEEE. Thanks for the efforts of Dr.P.Thrimurthy, Dr.Durgesh Kumar Mishra, Dr.Guy Omidiyar that KLU was given the chance to host WOCN-2014. Dr.V.Srikanth, the Director-FED was selected as the Organizing Chair. Dr.K.Thirupathi Rao, HOD-CSE and Dr.V.Krishna Reddy Alternate HOD-CSE are appointed as Conveners of WOCN-2014. Prof.A.V.Praveen Krishna together with Prof.K.Rajasekhar and Prof.E.Suresh Babu were appointed as organizing secretaries.

The main components of this conference were

1. Preconference Workshops
2. Preconference Tutorials
3. Keynote Addresses
4. Paper Presentations

1. Preconference Workshops

10<sup>th</sup> and 11<sup>th</sup> September will go into the records of history of CSE Department as the dates for conducting three state-of-art Pre-conference workshops on the following topics.

- 1) 'Cloud Computing' by Mr.P.Sridhar Ex.Microsoft Developer --- windows 7 and windows mobile phone and Mr.K.Phani, Ex.County Manager for academics of Microsoft.

About 240 participants participated and they could develop applications and post them on cloud using Azure platform.

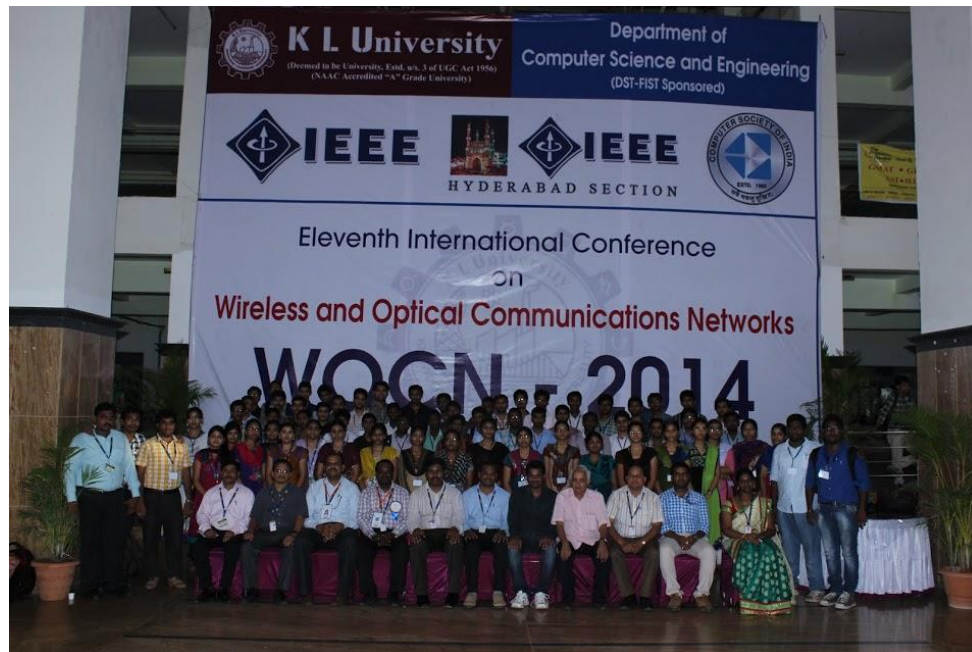
- 2) 'Digital Forensics' conducted by Dr.D.K.Durgesh Kumar Mishra, Visiting Professor IIT,Indore and Ex Secretary IEEE indore cha

Again about 230 students participated. The student could practice security tools to incorporate security in data transfer.

3) 'Network Simulator' was conducted by Mr.E.Suresh Babu, KLUUniversity and B.Ramesh Babu, MNIT Jaipur.



About 100 students attended the Workshop. The students practiced NS2 simulator to simulate networks of their choice.



The above 3 workshops were very successful and our salute to the resource persons and faculty for conducting them very well to the satisfaction and delight of the students.

### CONFERENCE DAY 1: 11<sup>th</sup> September,2014 PRECONFERENCE TUTORIALS

Three tutorials were conducted on the first day. The first one was on ‘Amateur Radio’ delivered by Dr.Miroslov Skoric from Serbia and IEEE member Austria section. The tutorial was a roaring success on topic “**Amateur Radio Communication, Software and Computer Networks in Education**”. In the days world becoming global village through internet the concept of low cost radio being built at home and office to connect universities and local school to share information is a real tribute. About 100 participants attended.



The second tutorial on Big Data Analytics and Cloud Computing delivered by Dr.G.Santosh Babu, Bangalore was astonishing manifestation of complex concepts of Big Data delivered to audience in a simple manner on topic “**Cloud Computing and Big-Data Analytics**”. Through illustration of an application in Biology and Genomes to identify diseases like Cancer. Big Data Applications like Facebook and Twitter were also explained.



The third tutorial was an ‘**Quality of Service and Design Challenges in Wireless Sensor Communications Networks**’ by Dr.Vivek.S.DeshPande, MIT,Pune. He has presented the problem of congestion, reliability delay etc. The parameters of QOS were explained very candidly and lucidly detailing how QOS can be achieved through proper caring of these parameters. The tutorial was a great success and was attended by about 50 students, researchers, faculty.



**INAUGURAL SESSION**

A galaxy of stalwarts graced the inaugural session ably directed by the one and only magician in this part of the country Prof.P.Thrimurthy ,who presided the inaugural session. Dr.V.Srikanth, organizing chair explained the guidance obtained from several luminances, Er.K.Satyanarayana, President, KLEF, Er.K.Havish, Er.K.Raja Harin, Prof.P.Thrimurthy, Dr.L.S.S.Reddy. He briefed the audience on the various components of the conference. Dr.Durgesh Kumar Mishra elaborated the concept behind the conference and advised the researchers to concentrate and carryout research through a thorough literature survey. Our Vice Chancellor Dr.L.S.S.Reddy congratulated the CSE Dept for conducting the international conference very well. He narrated that KLU is a research university built on the solid foundation of KLCE. Our chancellor Dr.R.Sreehari Rao emphasized the need of active and vibrant research.





Er.Raja Harin, Vice president KLEF has greeted the conference and congratulated CSE for getting Dr.K.R.Murali Mohan,DST as chief guest. Advised the faculty to do active research and good projects. Dr.Horacio Professor of National College of Ireland, said that he is happy to be in KLU University and in Vijayawada to share knowledge on Cloud Computing and parallelism. Dr.Miroslov Skoric Professor from Serbia said that he is delighted to be part of the conference and wished the best of luck. Dr.K.R.Murali Mohan, chief guest inspired the audience asking them to participate in collaborative technologies and use them to produce products that are useful to people around and society-at-large. Dr.Anand Kumar, Principal congratulated CSE Dept. and wished them best of luck. Dr.K.Thirupathi Rao proposed the vote of thanks.

#### KEYNOTE ADDRESSES I,II & III:-

Dr. Horacio González-Vélez, Head – Cloud Competency Centre , National College of Ireland in his first Key Note Address detailed parallelism achievable through multi core technology and mechanism of separating tasks from data. He also explained skeleton programming in contrast to function programming to achieve parallelism. He also explained the project being carried out at National College of Ireland on parallelism.





Dr.Durgesh Kumar Mishra dwelt on privacy and security issues in multiparty computations and Dr.J.K.Mandal explained in detail the advantages of using ANN based Cryptographic Techniques in Wireless Communication.



### Research Paper Presentation Sessions:-

Around 9 sessions were conducted on 12-9-2014. Total 23 high quality papers were presented. They were presented in a, systematic and quantifiable way in meticulous style.

The day concluded with a cultural programme. The classical dances were very impressive. Light music and mimicry were enjoyable. A wonderful dinner hosted by WOCN-14 at hotel Murali Fortune Park was highly enjoyable

### CONFERENCE Day-3 13<sup>th</sup> September,2014

#### Keynote Address-IV

Dr.M.M.Tripathi delivered Key Note Address-IV on **Smart Grid-Communications and Security Challenges**. He explained how power generation and distribution can be improved through the use of ICT.



### Research Paper Presentation Sessions:-

On the second day, 17 papers were presented in three sessions. They were again quality papers and were presented very well.



## Panel Discussion

### Topic: Internet Of Things

A unique panel discussion on the topic “Internet of Things” was the highlight of the day. This was ably moderated by Prof.P.Thrimurthy. Eleven high profile researchers in their respective fields coming from different Universities, NIT’s, IIIT’s and Industry were the members of the panel They are:-

- 1)Dr.Siva Kumar Udgata, University of Hyderabad
- 2)Dr.DVLN Somayajulu, NIT-Warangal
- 3)Dr.G.Ramamurthy, IIIT Hyderabad
- 4)Dr.P.S.Avadhani, Andhra University
- 5)Dr.Sudheer Reddy, Infosys
- 6)Dr.Vivek.S.Deshpande, MIT
- 7)Dr.M.M.Tripathi, DTU
- 8)Dr.M.H.M Krishna Prasad,JNTUK
- 9)Dr.V.Srikanth
- 10)Dr.K.Thirupathi Rao

Initially each of the member detailed the area of their work. Internet of things was opened for discussion and moderation.



Some of the important areas discussed in the panel discussion are:

1. Balloon technique of internet for remote villages
2. Interdisciplinary research
3. Moving objects and big data
4. Mining of submerged people and equipment
5. Difference between mining and Big Data
6. Priority is given to which of five attributes of Big Data
7. Definition of internet of things
8. Simulation and Application.

Internet of things was defined as availability of smart things be it a device, a computing node or any complex application ready to deliver services. Lively discussion took place and everyone started appreciating the underlying concept.

### Valedictory Function



WOCN-2014 was concluded by the valedictory function. The whole hearted contributions for the success of conference by the Organizing Chair, Conveners and Organizing Secretaries was highlighted. The participants like delegates and paper presenters were awarded with the certificates. The conference concluded with the felicitation to Prof.P.Thrimurthy and closing remarks by Dr.G.Rama Krishna hoping to carry forward the aspirations of each one through due intrinsic research.