



ICCI 2005

# PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON COMMUNICATION AND INFORMATION 2005

June 26-27, 2005

BEIJING, CHINA



HOSTED BY  
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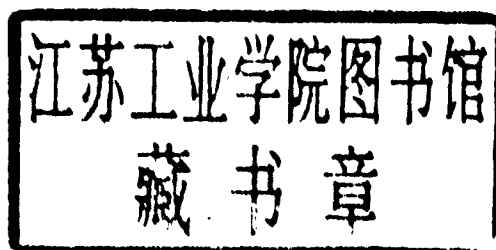


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**Welcome to  
BEIJING, CHINA**



**PROCEEDINGS OF THE INTERNATIONAL  
CONFERENCE ON COMMUNICATION AND  
INFORMATION 2005**



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## Welcome Address



Dear Ladies and Gentlemen:  
Good morning!

With the opening of ICCI2005, I am happy to hold this opportunity to give my regards to all of you, and welcome you attending this communication and information summit held in Beijing. With your coming, ICCI2005, Beijing, will be honoured.

Compared with the developed regions, China is getting the increasingly development in communication and information, from backbone, cellular mobile to fixed wireless access, from traditional networks to NGN and NGI. All aspects, especially the access network, are evolving from narrowband to wideband, and then broadband. The trend will change the world greatly in not too far, including the life style and working manner. This potentially means that tomorrow's far away is not today's far away, people are getting closer and closer. Based on the high-speed transmission, everything is changing like in the fast lane.

**Beijing University of Posts and Telecommunications (BUPT)**, founded in 1955, and going her 50th year anniversary while this conference, is a key national university distinguished herself by her excellent teaching and research in the field of communication and information, especially in the field of telecommunications. BUPT keeps engineering as its focus and multidisciplinary combination of Engineering, Management, Humanities and Science. She is one of the most important national universities. She has educated many alumni with key influences in research and development, operators and officials for china communication and information. The International Conference on Communication and Information (ICCI2005) as a significant scientific and technical conference will be a key event in the 50th anniversary of BUPT. I believe, BUPT will make this conference successful.

With more than 200 professionals coming together to exchange new research results will benefit to everybody here. On behalf of Conference, I'd like to take this opportunity to thank you all. I hope you are delighted with ICCI2005, Beijing, with enjoyable 2-day conference, meeting your old friends, knowing new friends. I also wish you could find your Chinese partners for the future collaboration in research, development, business.

Zhou Jiong Pan

Conference Chair, ICCI2005

2005, June 24

## Welcome Address



China has now become the country with the largest number of mobile subscribers. She not only possesses the largest GSM network but also the largest CDMA network in the world. China also has become the country with the largest number of Ph D student over the world. Because of the above, China will be regarded as a powerful country of communication and information. As a researcher devoted in communication and information for many years, I am glad to see this great opportunity and at the same time, We should devote ourselves to this promising cause. On the other side, we should clearly understand that although we are advanced in the number of subscribers, network scale, equipment, etc., we are still far behind the developed countries in research, development and application, This is why we held ICCI2005, I believe it will provide us an opportunity to learn from the advanced theories, technologies, equipment and applications. At the same time, ICCI2005 presents a channel for foreign experts and students to know China better and for China to better understand the world. We will cooperate with all the friends in the communication and information field to promote all technology and to bring convenience to people's life and work.

Wish ICCI2005 a success!

Wish all the friends healthy!

Song Junde, professor

Vice chair of ICCI2005

Chair of China Mobile Internet Application Protocol Special Group

Chair of Academic Degree Committee of EE College of BUPT

## Welcome Address



On behalf of the 123,000 worldwide membership of the IEE, I am very pleased to send our congratulations to BUPT on the occasion of the opening of ICCI 2005 and BUPT 50<sup>th</sup> Anniversary. The IEE take pride in the excellent relationship we have with the university and look forward to working together in the future.

Professor John O'Reilly CEng FIEE FREng, IEE President 2004-2005

## Welcome Address



Dear ladies and gentlemen:

I am professor Liu Yuan An as chairman of TPC from Beijing University of Posts and Telecommunications. I represent Technical Program Committee of ICCI2005, welcome all of you to visit Beijing and attend this International Conference on communication and information. Because of your attendance, ICCI2005, Beijing, will be the most successful conference in ICCI history.

In ICCI2005, Beijing, we have divided the whole into the following sections:

- Section A    Comm. And Information Theory
- Section B    Network Management and Services
- Section C    Networking Theory and Tech
- Section D    Optical Communications
- Section E    Wireless Communications
- Section F    Radio Technology
- Section G    Communication Software
- Section I    Information Security
- Section H    Others

Based on the ebullient promotion of totally over 20 TPC members and friends, as well as one and half a year, approximate 300 technical papers, contributed from 7 nations and regions, were submitted to the Conference, finally, about 180 papers are accepted for oral presentation through two-stage sincere reviewing processes. We have come out totally 16 technical sessions for ICCI2005, Beijing.

On behalf of the Technical Program Committee of ICCI2005, I would like to present my particular thanks to Mr.Feng Ji Chung, who is the Director-General, Bureau of High Tech of Ministry of Science and Technology of China, for his support to this conference. I also like to thank all the active TPC members and friends, without your valuable suggestion, promotion and reviewing, ICCI2005 can't proceed anything well. Besides, I also like to thank all the session chairs for paying your full attention to make ICCI2005 successful.

Toward the success of ICCI2005, I give my sincere thanks to NSF of China, Wireless and Mobile Communication Society of CIC, Youth Communication Society of CIC. In addition, I have to mention my friends such as Dr.John O'Reilly, Dr. Masahiro Minomo, Dr.Chen Lan, for their exceptional efforts in the preparation of ICCI2005. I also sincerely appreciate all the organizers and part of my fellows and graduates, since they have given up their weekends, holidays and vocations.

Communication and Information is getting her fast pace all the time. ICCI2005 includes the theoretical investigation to application development. I hope that you all can create innovative ideas in researching and developing new technologies for next generation infrastructures. Finally, I find many speakers are graduates who bring us new thinking and will be the power in the future.

I welcome you again and wish you enjoy our invitation and accommodation. I look forward that you can take time to see the great sightseeings and have a good time in Beijing.

Thanks

Liu Yuan An

ICCI2005 Technical Program Chair

June 3, 2005, Beijing



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