

IEEE COMMUNICATIONS SOCIETY
Technical Committee on Personal Communications (TCPC)

Meeting held at ICC 2005

Seoul – Korea

COEX Intercontinental Hotel
Zelkova Room (Level 2)

Tuesday, May 17, 2005
17:30 – 19:00

Attendance

- ◆ Marcelo S. Alencar
- ◆ J. Roberto B. De Marca
- ◆ Ibrahim Korpeoglu
- ◆ Yao Ma
- ◆ Ying-Chang Liang
- ◆ Ben Liang
- ◆ Vincent Wong
- ◆ Saeed Gazor
- ◆ A. Nallanathan
- ◆ Abbas Jamalipour
- ◆ Hsihohwa Chen
- ◆ Romano Fantacci
- ◆ Anthony Soong
- ◆ Khaled Ben Letaief
- ◆ Vijay Bhargava
- ◆ Zhi Tian
- ◆ Mohammed Atiquzzaman
- ◆ Harsha Sirisena
- ◆ Cedric Westpahal
- ◆ Zaher Dawy
- ◆ Hossam Hassanein
- ◆ Ruhai Wang
- ◆ Pascal Lorenz
- ◆ Maria Lusisa Merani
- ◆ Boon Sain Yeo
- ◆ Giovanni Giambene
- ◆ Yong Huat Chew
- ◆ Kui Wu
- ◆ Xavier Perez Costa
- ◆ Fei Peng
- ◆ Halim Yanikomeroglu

Agenda

- ◆ 1. Welcome
- ◆ 2. On TCPC
- ◆ 3. Announcements
- ◆ 4. Minute of the previous TCPC meeting (held at GC'04)
- ◆ 5. Conference reports
- ◆ 6. Other business
- ◆ 7. Adjournment

IEEE ComSoc Technical Committee on Personal Communications (TCPC)

Mission

- ◆ The Committee sponsors conferences, technical sessions, workshops, and other information exchanges on architectures, applications, systems, terminals and technologies to provide personal, location-independent communications and computing in voice, data and visual media.
- ◆ It covers techniques for achieving portability, ubiquity and transparency using wireless networks ranging from microcellular to satellite, and wired networks ranging from narrow to broadband.
- ◆ The issues, at all protocol layers, include propagation, spectral allocation, coding and modulation, equipment design, network management and operation, intelligent networks, personal profile management, security, applications program interfaces and user interfaces, and interoperability between various elements of the network and other networks, and standards.

IEEE ComSoc Technical Committee on Personal Communications (TCPC)

Officers

◆ **Present Committee** (1 Jan 2005 - 31 December 2006)

- Chair: Prof. Halim Yanikomeroglu, Carleton U, Canada
- Vice-Chair: Prof. Chengshan Xiao, U of Missouri-Columbia, USA
- Secretary: Prof. Mohsen Guizani, West Michigan U, USA

◆ **Previsous Committee** (1 Jan 2003 - 31 December 2004)

- Chair: Prof. Khaled Ben Letaief, HKUST, Hong Kong
- Vice-Chair: Prof. Halim Yanikomeroglu, Carleton U, Canada
- Secretary: Dr. Bassam Hashem, Saudi Telecom, Saudi Arabia

◆ **Past Chairs**

- Prof. Zygmunt Haas, Cornell U, USA
- Prof. Elvino Sousa, U of Toronto, Canada
- Dr. Justin Chuang, AT&T (now with Broadcom, USA)
- Prof. Steve Rappaport, SUNY, New York
- Prof. Henry Bertoni, Polytechnic University, NY, USA

IEEE ComSoc Technical Committee on Personal Communications (TCPC)

- ◆ One of the most established and active TCs in ComSoc
- ◆ Website: <http://www.sce.carleton.ca/tcpc>
- ◆ Meetings: twice a year, at ICCs and GCs
- ◆ Sponsors the “Wireless Symposium” in ICCs and GCs
 - Receives the largest number of submissions
 - Great success
- ◆ Membership: open to all who are interested
- ◆ Volunteer-based
- ◆ Mailing list
- ◆ **Utilize TCPC!**
 - Networking
 - Getting involved in events (reviewer, TPC member, session chair, TPC chair/vice-chair)
 - Conference endorsement
 - IEEE fellowship
 - ...

TCPC Recognition Award

- ◆ **Prize:** A recognition plaque.
- ◆ **Basis for Judging:** A person with a high degree of visibility and contribution in the field of “Personal, Wireless and Mobile Systems and Networks”.
- ◆ **Presentation:** Annually (as appropriate). No more than two awards will be given per year.
- ◆ **Nomination:** Nomination will be solicited from TCPC members annually. The nomination should include a (short) sentence for "what service or accomplishment" the person is nominated for and a one page supporting material. Additionally, letters supporting the nomination may be sent to the TCPC Award Committee Chair (together with the nomination or separately).
- ◆ **TCPC Recognition Award Committee:** The Award committee will have 5 members as follows:
 - Chair: Past TCPC Chair (Ben Letaief)
 - Members:
 1. Current TCPC Chair (Yanikomeroğlu)
 2. 2nd Past TCPC Chair (Haas)
 3. 3rd Past TCPC Chair (Sousa)
 4. TCPC Member (appointed by the TCPC Chair for one year; renewable for a maximum of one year)

TCPC Recognition Award

◆ 2005

- **Closing date for nominations: September 30, 2005**

◆ 2004

- **Prof. Steve Rappaport, State University of New York, USA**

◆ 2003

- **Prof. Ramjee Prasad, University of Aalborg, Denmark**

◆ 2002

- **Prof. Elvino S. Sousa, University of Toronto, Canada**
- **Prof. Imrich Chlamtac, University of Texas at Dallas, USA**

Minutes of TCPC meeting held at GC'04

- ◆ Tuesday, Nov 30, 2004, Hyatt Dallas Hotel
- ◆ Chair: Prof. Khaled Ben Letaief (TCPC Chair)
- ◆ Attendees: ~50

Peter Yum, Ruhai Wang, Hlaing Minn, Paul Ewing, Mostofa Howlader, Ehab Elmallah, Vincent Wong, Farshid Alizadeh, Kuwang Bok Lee, Vasilis Friderikos, Mohamed Saquib, Dimitrie Popescu, Geoffrey Li, Wenye Wang, Michael Devetsikiotis, Sonia Aissa, Ali Ghrayeb, Khaled Ben Letaief, Ahmed Safwat, Weider Yu, Romeo Velarde, Chengshan Xiao, Andrej Stefanov, Nirmala Shenoy, Ekram Hossain, Xiaodai Dong, Hsiao Hwa Chen, Yan Sun, Sherman Shen, Junshan Zhang, A. Nallanathan, Hossam Hassanein, Rath Vannithamby, Chatschik Bisdikian, Shahrokh Valaee, Nidal Nasser, Mohsen Guizani, Boon Sain Yeo, Romano Fantacci, Sastri Kota, Guy Omidyar, Michel Bousquet, Raouf Boutaba, Mehmet Ulema, Teerawat Issariyakul, Halim Yanikomeroglu

- ◆ Introduction and welcome
- ◆ Approval of TCPC meeting minutes held at ICC'04 (Paris)
- ◆ TCPC award: Prof. Steve Rappaport, State University of New York
- ◆ Conference reports
- ◆ TCPC Officers election
- ◆ Adjournment

Conference Reports

Sponsored/Cosponsored by TCPC

- ◆ ICC'05 – WCS
- ◆ ICC'05 – WNS
- ◆ GC'05 – WCS
- ◆ ICC'06 – WCS
- ◆ ICC'06 – WAHSNS X
- ◆ GC'06 – WCNS
- ◆ ICC'07

ComSoc Wireless Events

- ◆ WCNC'05, WCNC'06
- ◆ PIMRC'05

Endorsed by TCPC

→ sponsored by ComSoc

- ◆ IST Summit'05
- ◆ WirelessCom'05
- ◆ WCNM'05
- ◆ QShine'05
- ◆ ISWSN'05
- ◆ ASWPC'06
- ◆ ASWN'05 X
- ◆ ICCCAS'05 X
- ◆ ISWCS'05

- ◆ WiMob'05
- ◆ PWC'05
- ◆ WPNC'05 X
- ◆ ICPWC'05 X
- ◆ WOC'05 X

ComSoc's New Regulations for Event Endorsements by Technical Committees

◆ DEFINITION OF TC ENDORSEMENT:

IEEE Communications Society policy requires that all technically or financially sponsored events be endorsed by an appropriate ComSoc Technical Committee. Technical Committees can endorse, but not sponsor, a meeting or event. Sponsors are those non-profit organization(s) assuming financial liability for an event.

◆ TC ENDORSEMENT GUIDELINES:

- a) The Event has a TPC that conducts independent, peer review for paper selection.
- b) The Event is in a technical area related to the endorsing TC's interests.
- c) At least one TC member must be on the Event's TPC and actively involved in the development of its program.
- d) The Event's designated TC representative agrees to report to the TC about the Event.
- e) The TC's Event representative assumes significant responsibility for the overall quality of the Event's technical program.

ICC'05 Wireless Communications Symposium

◆ Co-chairs

- Kwang Bok Lee, Seoul National University, Korea
- Mansoor Shafi, Telecom New Zealand, New Zealand

◆ Sponsor

- Personal Communication TC
- Radio Communication TC

◆ TPC Members: 103

◆ Reviewers: 865, Reviews: ~1600

◆ Average score of accepted papers: 3.3

◆ Acceptance rate: 149/464 (32.11%)

◆ 37 sessions (each of 4 papers)

ICC'05 Wireless Communications Symposium (cont'd)

◆ 37 Sessions

- Channel Estimation and Modeling I, II
- 3G/4G Systems I, II
- CDMA I, II
- MIMO Systems I -
- Diversity and Equalisation I, II
- Detection and Estimation Techniques I -
- OFDM I-
- MIMO-OFDM I, II
- Radio Resource Management I -
- Ultra Wide Band Systems I -
- Space Time Processing I, II

ICC 2005 Wireless Networking Symposium

◆ Co-Chairs

- Prof. Romano Fantacci, University of Florence, Italy
- Dr. Roberto Saracco, Telecom Italia Lab, Italy

◆ Vice-Chairs

- Prof. Ian Opperman, University of Oulu, Finland
- Dr. Bassam Hashem, Saudi Telecom, Saudi Arabia

TPC Members

- ◆ Andrea Abrardo, University of Siena, Italy
- ◆ Sanghyun Ahn, University of Seoul, South Korea
- ◆ Sonia Aissa, University of Quebec, Canada
- ◆ Saud Al-Semari, KFUPM, Saudi Arabia
- ◆ Alagan Anpalagan, Ryerson University, Canada
- ◆ Christian Bettstetter, DoCoMo Euro-Labs, Germany
- ◆ Stephen Bush, GE Global Research Center, USA
- ◆ Antonio Capone, Politecnico di Milano, Italy
- ◆ Yong Huat Chew, Institute for Infocomm Research, Singapore
- ◆ Chunxiao Tricia Chigan, Michigan Tech, USA
- ◆ Sunghyun Choi, Seoul National University, South Korea
- ◆ Zhu Han, University of Maryland, USA
- ◆ Bassam Hashem, Saudi Telecom, Saudi Arabia
- ◆ Xiaoning He, Paragon Wireless, USA
- ◆ Thomas Hou, Virginia Tech, USA
- ◆ Holger Karl, University of Paderborn, Germany
- ◆ Woojune Kim, Airvana Inc., USA
- ◆ Sastri Kota, Harris Corporation, USA
- ◆ Taekyoung Kwon, Seoul National University, South Korea
- ◆ Bjorn Landfeldt, The University of Sydney, Australia
- ◆ Peter Langendoerfer, ihp-microelectronics, Germany

TPC Members (cont'd)

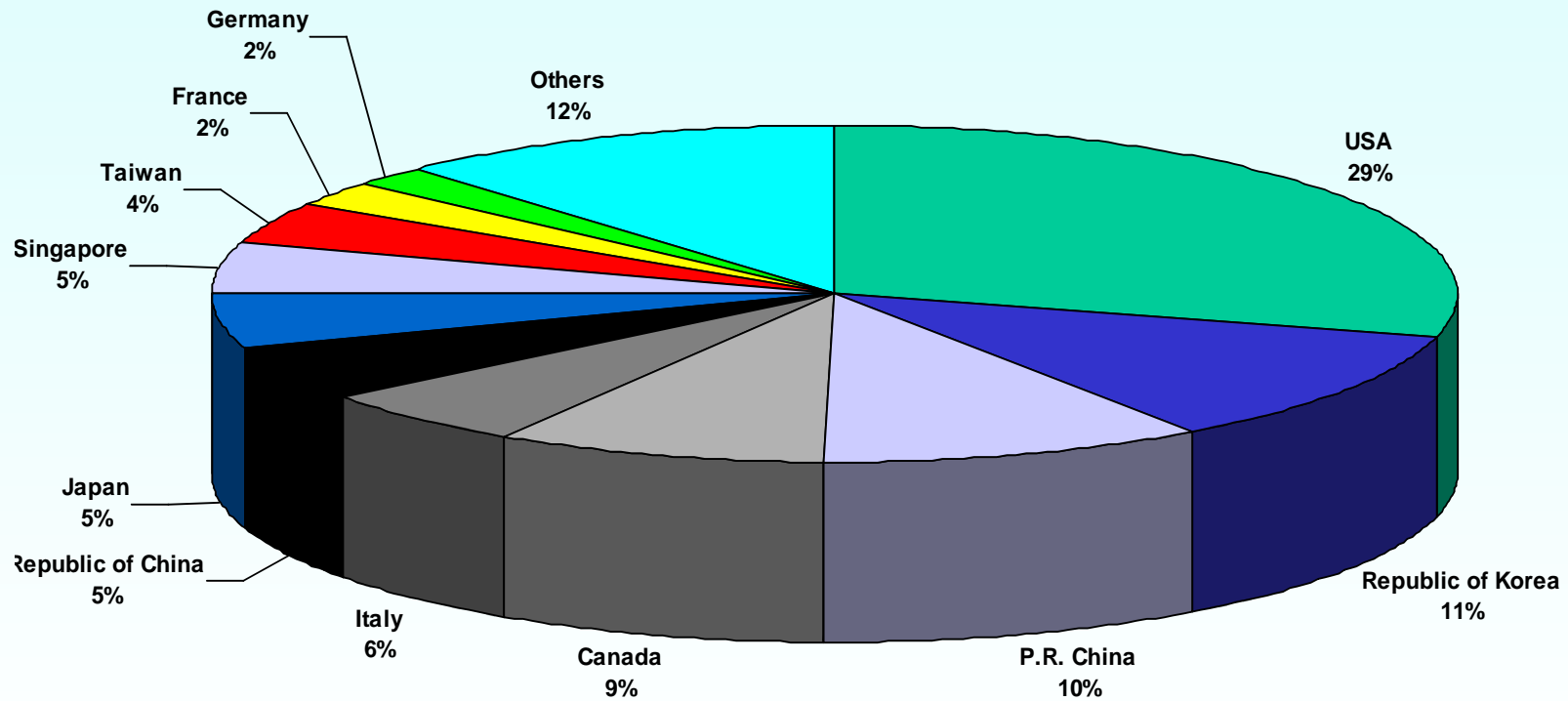
- ◆ Jaiyong Lee, Yonsei University, South Korea
- ◆ Victor Leung, The University of British Columbia, Canada
- ◆ Wei Li, University of Toledo, USA
- ◆ Athanassios Manikas, Imperial College London, United Kingdom
- ◆ Shiwen Mao, Virginia Polytechnic Institute and State University, USA
- ◆ Maria Luisa Merani, University of Modena and Reggio Emilia, Italy
- ◆ Melody Moh, San Jose State University, USA
- ◆ Ian Oppermann, University of Oulu, Finland
- ◆ Andrzej Pach, AGH University of Science and Technology, Poland
- ◆ Tommaso Pecorella, CNIT, Italy
- ◆ Lars K. Rasmussen, University of South Australia, Australia
- ◆ Eilon Riess, Wavion Ltd, Israel
- ◆ Apostolis Salkintzis, Motorola, Greece
- ◆ Jens Schmitt, University of Technology, Germany
- ◆ Aaron Striegel, University of Notre Dame, USA
- ◆ Daniele Tarchi, Universita' di Firenze, Italy
- ◆ Kui Wu, University of Victoria, Canada
- ◆ Yang Xiao, The University of Memphis, USA
- ◆ Oliver Yang, University of Ottawa, Canada
- ◆ Chi-Hsiang Yeh, Queen's ECE, Canada
- ◆ Susumu Yoshida, Kyoto University, Japan
- ◆ Murat Yuksel, Rensselaer Polytechnic Institute, USA

Paper Statistics

- ◆ Submitted papers: 384
- ◆ Accepted papers: 132
 - Threshold:
 - Avg. 3.0,
 - # Reviews: 3,
 - Span: 0
- ◆ Withdrawn papers after notification: 2

Technical Committee on Personal Communications (TCPC) Meeting

17 May 2005, Seoul, Korea



Topics

Topic	Count
Ad hoc wireless networks	126
Wireless Local Area Networks	56
Mobile Ad Hoc Routing	49
Wireless Technologies for Sensors	36
Wireless system optimization techniques	36
Multiple and wireless access techniques	31
Mobility management	29
3G/4G Wireless Technologies	28
TCP over Wireless	28
Mobile Cellular Systems	24
Networking Architecture	23
Mobile QoS	23
Radio Resource Management	21
Handoff protocols & management	21
Call admissions control	19
Wireless services and applications	17
Wireless Capacity	16
Resource allocation and interference management	16

Bluetooth Technologies & Applications	15
Power Control Algorithms	13
Wireless Multimedia	13
Emerging Wireless Technologies	12
Flow & Congestion Control	12
Wireless switching and routing techniques	12
Diversity Techniques	11
Traffic Management	11
Network Topology Control	11
Hybrid wireless communication systems	10
Wireless Communications Standards	9
End-to-End QoS	8
Broadband Wireless Access	6
Adaptive Array Systems	6
Spectrum Efficiency & Issues	5
Ultra-Wide Band Radio	4
Interference Avoidance	4
Interference and Coexistence of Heterogeneous Wireless Systems	3
Wireless multicasting	3
Software Radio	2
Spectrum Management	1

Sessions

- ◆ 23 Sessions x 4 Papers
- ◆ Ad-Hoc Networks: 10 Sessions
- ◆ Sensor Networks: 6 Sessions
- ◆ 3G Cellular Networks: 3 Sessions
- ◆ Broadband Wireless Access: 2 Sessions
- ◆ Wireless TCP: 2 Sessions
- ◆ WLAN: 5 Sessions
- ◆ Resource Management: 3 Sessions
- ◆ Mac Protocols: 1 Session
- ◆ Mobile IP: 1 Session

Tuesday, May 17, 2005

Medium Access Control in Ad-Hoc Networks

Daniele Tarchi

Italy

University of Florence

Medium Access Control in Wireless LAN

Sonia Aissa

Canada

Universite du Quebec

Routing in Ad-Hoc Networks I

Yang Yang

UK

University College London

Routing in Ad-Hoc Networks II

Christian Bettstetter

Germany

DoCoMo Euro-Labs

Routing in Sensor Networks I

Sung-Ju Lee

USA

HP

3G Networks

Federico Renon

Italy

TILab

Mobility Management

Maria Luisa Merani

Italy

University of Modena and Reggio Emilia

Routing in Ad-Hoc Networks III

Sastri Kota

USA

Harris

Routing in Sensor Networks II

Francesco Chiti

Italy

University of Florence

Wednesday, May 18, 2005

Power Aware Techniques in Ad-Hoc Networks I	Susumu Yoshida	Japan	Kyoto University
Scheduling Techniques	Federico Renon	Italy	TILab
Sensor Networks I	Kui Wu	Canada	University of Alberta
Mobile IP	Federico Renon	Italy	TILab
Power Aware Techniques in Ad-Hoc Networks II	Saeed Gazor	Canada	Queen's University
Sensor Networks II	Hossam Hassanein	Canada	Queen's University
Admission Control in 3G Networks I	Hsiao-Hwa Chen	Taiwan	National Sun Yat-Sen University
Power Aware Techniques in Sensor Networks I	Thomas Hou	USA	Virginia Tech
QoS aware Resource Management	Halim Yanikomeroglu	Canada	Carleton University
Admission Control in 3G Networks II	Nallanathan Arumugam	Singapore	National University of Singapore
Power Aware Techniques in Sensor Networks II	Ravi Sankar	USA	University of South Florida

Thursday, May 18, 2005

Ad-Hoc Networks I	Oliver Yang	Canada	University of Ottawa
Broadband Wireless Access I	Ben Liang	Canada	University of Toronto
QoS in Wireless LAN I	Stefano Galli	USA	Telcordia Technologies
Ad-Hoc Networks II	Nikos Passas	Greece	University of Athens
Broadband Wireless Access II	Roberto de Marca	Brasil	Pontifícia Universidade Católica
QoS in Wireless LAN II	Paul Cotae	USA	University of Texas at San Antonio
Ad-Hoc Networks III	Sennur Ulukus	USA	University of Maryland
Wireless LAN I	Norman Beaulieu	Canada	University of Alberta
Wireless TCP I	Ahmed Safwat	Canada	Queen's University
Ad-Hoc Networks IV	Vincent Wong	Canada	The University of British Columbia
Medium Access Control Techniques	Mustafa M. Matalgah	USA	The University of Mississippi
Wireless LAN II	Sunghyun Choi	South Korea	Seoul National University
Wireless TCP II	Taekyoung Kwon	South Korea	Seoul National University

Globecom 2005 Wireless Communications Symposium

- ◆ Location: Renaissance Grand Hotel, St. Louis, Missouri, USA,
- ◆ Time: Nov. 28 – Dec. 2, 2005
- ◆ Website: <http://www.globecom2005.com>

- ◆ General Chair: Ann Miller
- ◆ Technical Program Chair: Steve Watkins
- ◆ Wireless Communications Symposium Chair: Abbas Jamalipour,
 - Vice Chairs: Nirwan Ansari, Chengshan Xiao, and Mostofa Howlader

- ◆ Globecom'05 received 1726 submissions and the distribution is given by

Wireless Communications	659	(38% of Globecom'05)
General Conference	277	
Communication Theory	225	
Signal Processing	151	
Adv. Networks & Internet	119	
Autonomic Internet	102	
Photonic Technology	101	
Computer & Network Security	89	

Globecom 2005 Wireless Communications Symposium (cont'd)

- ◆ The Technical Program Chair suggested to set the acceptance rate to be ~45%, and the acceptance distribution would be given by

Wireless Communications	297
General Conference	113
Communication Theory	94
Signal Processing	62
Adv. Networks & Internet	46
Autonomic Internet	45
Photonic Technology	43
Computer & Network Security	40

- ◆ WCS has three tracks related to PHY, NET, and SER/APP
- ◆ There were around 150 active TPC members helping with the WCS
- ◆ The review process has almost completed with each paper with 3+ review reports
- ◆ Symposium level acceptance decision will be made by May 31, and the results will be sent between June 15 and June 30 to authors

ICC'06 Wireless Communications Symposium

- ◆ **TCPC: Prof. Sonia Aissa, University of Quebec, Canada**, aissa@inrs-emt.uquebec.ca
Prof. Oguz Sunay, Koc University, Turkey, osunay@ku.edu.tr
RCC: Prof. Velio Tralli, Universita di Ferrara, Italy, vtralli@ing.unife.it
- ◆ Istanbul, Turkey, 11-15 June 2006, www.icc2006.org.
- ◆ The Wireless Communication Symposium, originally endorsed by the TCPC is now also endorsed by the Radio Communication Committee. The co-chairs are Sonia Aissa and Oguz Sunay as representatives of TCPC and the RCC representative Velio Tralli who joined following the ICC 2006 committee meeting at Globecom'04 in Dallas.
- ◆ Things are moving along very well. We have already formed a very strong Technical Program Committee with more than 70 members and still receiving requests from other volunteers. We expect a high number of submissions for oral or poster presentation.
- ◆ The list of topics and TPC is available on the conference web site. The symposium will cover topics in 3 areas:
 1. Wireless Air Interface and Link Control
 2. Wireless Network and Transport
 3. Wireless Services and Applications
- ◆ The review process is expected to start shortly after the submission deadline that is Sept 15th. We count on the support of the TPC to ensure that the reviewing process goes smoothly and adheres to the deadlines. We thank the TPC members and count on their support for a successful symposium.

ICC'06 Wireless Ad Hoc and Sensor Networks Symposium

◆ Co-chairs:

Prof. Mohsen Guizani

Prof. Hamid Aghvami

Prof. Khaled B. Letaief

Prof. Ahmed Safwat

GC'06 Wireless Communications and Networks Symposium

27 Nov – 1 Dec 2006, San Francisco, USA

Terry Kero, Conference Chair, Myaani Inc.,

J. J. Yea, Conference Vice-Chair, Sprint Labs

Prof. Zhi Ding, TP Chair, U of California, Davis

Prof. Chen-Nee Chuah, TP Vice Chair, U of California, Davis

- ◆ With the steady recovery of the telecommunications industry sector, more 3G cellular mobile systems are being rolled out with increasing multimedia-oriented services and applications. More hotspots are planned and/or deployed leading to the proliferation of Wi-Fi wireless LANs. In addition, the rapid emergence of WiMaX (IEEE 802.16), which provides wide area high speed access with the possibility of mobility support, creates new initiatives for research and development. In research laboratories, higher speed but shorter range radio systems such as Ultra Wideband (UWB) are under intense development, along with the concepts of pervasive computing and communications using wireless ad-hoc and sensor networks. The objective of this symposium is to provide a platform for researchers and technologists to present new ideas and contributions in the form of technical papers, panel discussions, as well as, testbed implementations and real-world evaluation of many ideas in wireless communications. To ensure complete coverage of advances in wireless communication and networking technologies for current and future systems, the wireless communications, networks and systems symposium seeks original contributions in, but not limited to, the following topical areas:

Symposium co-chairs

- ◆ Dr. Sastri Kota
Senior Scientist, Harris Corporation, USA
skota@harris.com
- ◆ Professor Shahrokh Valaee
Department of ECE
University of Toronto, Canada
valaee@comm.utoronto.ca
- ◆ Dr. Boon Sain Yeo
Networking Department
Institute for Infocomm Research, Singapore
boonyeo@ieee.org

- | | |
|---|---|
| ▪ PCS, GPRS, EDGE, 3GPP, UMTS | ▪ Wireless Multimedia |
| ▪ IMT2000 | ▪ Multiple and wireless access techniques |
| ▪ Bluetooth Technologies & Applications | ▪ End-to-End QoS |
| ▪ CDMA, TDMA, OFDM, air interfaces | ▪ Mobility management |
| ▪ Error and Link Control | ▪ Radio resource management |
| ▪ Power Control Algorithms | ▪ Wireless switching and routing techniques |
| ▪ Interference Avoidance | ▪ Wireless services and applications |
| ▪ Multi-user Detection | ▪ Hybrid wireless communications systems |
| ▪ Spectrum Efficiency & Issues | ▪ Wireless system optimization techniques |
| ▪ Handoff protocols & management | ▪ DVB and DAB techniques |
| ▪ Traffic Management | ▪ Ultra-wideband communications |
| ▪ Call admissions control | ▪ Adaptive modulation |
| ▪ Smart Antennas | ▪ Resource allocation and interference management |
| ▪ Mobile QoS | ▪ Diversity techniques & equalization |
| ▪ Cell & Capacity Planning | ▪ Modulation and coding |
| ▪ Wireless LANs | ▪ Multirate and multicarrier communications |
| ▪ Mobile IP | ▪ Space-time processing |
| ▪ Mobile Internet | ▪ Signal separation and interference rejection |
| ▪ Wireless Capacity | ▪ Detection and estimation |
| ▪ Network Topology Control | ▪ Propagation and channel characterization |
| ▪ Flow & Congestion Control | ▪ DSP application to wireless systems |
| ▪ TCP over Wireless | ▪ Fading countermeasures |
| ▪ Ad hoc wireless networks | ▪ MIMO systems |
| ▪ Mobile Ad Hoc Routing | ▪ Sensor networks |
| ▪ Wireless multicasting | ▪ Sensor efficient protocols and algorithms |
| ▪ Wireless Service Discovery | |
| ▪ Location Management Techniques | |
| ▪ Broadband Satellite Communications | |
| ▪ Mobile Satellite Systems | |
| ▪ 4G Mobile Network Architectures | |
| ▪ WiMaX | |

ICC'07

- ◆ Glasgow, UK
- ◆ General Chair: Professor Tariq S Durrani, U of Strathclyde, UK
- ◆ TP Co-Chairs:
 - Prof. John Thompson, U of Edinburgh, UK
 - Prof. Ivan Andonovic, U of Strathclyde, UK
- ◆ TCPC Reps:
 - Prof. Ruhai Wang
Department of Electrical/Computer Engineering
Lamar University, Texas, USA, wang@ee.lamar.edu
<http://www.ee.lamar.edu/wang/index.html>
 - Prof. Zhi (Gerry) Tian
Department of Electrical and Computer Engineering
Michigan Technological University, USA, ztian@mtu.edu
<http://www.ee.mtu.edu/faculty/ztian>

Future ICC's and GC's

- ◆ Globecom 2007 (Nov 25-30) – Washington DC, USA
- ◆ ICC 2008 – Beijing, China
- ◆ Globecom 2008 – New Orleans, USA
- ◆ ICC 2009 – Dresden, Germany, or Hawaii, USA ?
- ◆ Globecom 2009 – South Africa ?

WCNC (Wireless Communications & Networking Conference)

- ◆ ICUPC → WCNC
- ◆ Steering Committee Chair: Prof. Roberto de Marca, PUC Rio, Brasil
- ◆ Co-located with CTIA Wireless 2005

- ◆ WCNC'05: ieee-wcnc.org/2005
 - 13-17 March 2005, New Orleans, USA
 - General Chair: Lothar Pauly, Siemens, Germany
Executive Chair: Dr. Werner Mohr, Siemens, Germany
 - TP Chair: Prof. K. C. Chua, NUS, Singapore
 - TP Vice-Chairs: Prof. Sumit Roy, U of Washington
Prof. Abbas Jamalipour, U of Sydney, Australia
Prof. Victor Leung, U of British Columbia, Canada

- ◆ WCNC'06: ieee-wcnc.org/2006
 - March or April 2006
 - Las Vegas ?
 - TP Chair: Prof. Lajos Hanzo, U of Southampton

PIMRC 2005
Status of Preparation Report
to

IEEE Communications Society's
TCPC (Technical Committee on Personal Communications)

by
Bernhard H. Walke

Communication Networks
RWTH Aachen University, Germany

May 13, 2005

Outline

- ◆ Main Facts
 - Date of Event
 - Professional services
 - Homepage
 - Automated Paper handling
- ◆ PIMRC venue
- ◆ Committee & staff
- ◆ Topics
- ◆ New Items on PIMRC 2005
- ◆ Status of Paper Submission & Review Process
- ◆ Patrons
- ◆ Miscellaneous

Main Facts

- ◆ **Date of Event:** September 11 - 14, 2005
- ◆ **Professional Services:**
Conference Services: VDE of Germany (Association of German Electrical, Electronic and Information Engineers)
Contact: Rupert Rompel,
e-mail: vde-conferences@vde.com
- ◆ **Homepage:** <http://www.PIMRC2005.org>
- ◆ **EDAS** system used for paper handling

Venue

PIMRC venue reserved:

- ◆ International Congress Center, Berlin, Germany
- ◆ Contracted



Committee & Staff

◆ **Technical Programme Co-Chairs:**

- Bernhard Walke, RWTH Aachen University, Germany (Speaker)
- Klaus David, University of Kassel, Germany
- Martin Haardt, Ilmenau Univ. of Technology, Germany
- Petri Mähönen, RWTH Aachen University, Germany

◆ **Special Sessions**

- 10 Special Sessions have been organized by people invited for doing so.

◆ **Tutorial sessions organizers**

- Carmelita Goerg, University of Bremen, Germany
- Gerhard Fettweis, Dresden University
- Martin Haardt, University of Technology, Ilmenau, Germany

◆ **Panel sessions organizer**

- Jorge Pereira, European Commission, Belgium

◆ **Invited papers organizers**

- Raj Ganesh, Qualcomm, USA
- Sastri Kota, Harris Corporation, USA
- Kaveh Pahlavan, Worcester Polytechnic Institute, USA

◆ **Publications**

- VDE-Verlag (contact: Rupert Rompel)

◆ **Logistics**

- Walter Konhaeuser, Siemens Berlin

◆ **Secretariat**

- Rupert Rompel, VDE

◆ **Treasurers**

- Volker Schanz, VDE/ITG
- Debora Goldstein (Kingston), IEEE

◆ **IEEE Communications Society representative**

- ??Brian Bigalke, ComSoc, IEEE

◆ **XY support staff**

◆ **ZZ students on-site support**

◆ **...and Ramon Agusti & Sallent Oriol;**

◆ **Number of TPC members: ~150**

◆ **Reviewing board: ~1350 people**

Topics

Physical Layer

- ◆ Wireless propagation and channel modeling
- ◆ RF & BB technologies for handsets
- ◆ MIMO techniques and smart adaptive antennas
- ◆ Antenna and RF subsystems
- ◆ Coding, modulation & equalization
- ◆ Software radio and re-configurability
- ◆ Cognitive radio
- ◆ Multiplex techniques like spread spectrum techniques and OFDM

Networks

- ◆ Multiple access and network protocols
- ◆ Radio resource management
- ◆ (Vertical) handover control
- ◆ New wireless network architectures & solutions
- ◆ IETF based approaches and all-IP networks
- ◆ Convergence of networks
- ◆ Ad-hoc and sensor networks
- ◆ Adaptive network technologies
- ◆ Wireless IP, Mobile IP
- ◆ Wireless LAN and PAN
- ◆ Satellite networks and High Altitude Platforms
- ◆ Digital audio & video broadcasting
- ◆ Security & privacy

Middleware/Applications

- ◆ Applications & Services
- ◆ Service and middleware platforms
- ◆ Pervasive computing & ambient intelligence
- ◆ Mobile multimedia
- ◆ GPS, Galileo & applications
- ◆ Security & privacy
- ◆ Location based services and positioning
- ◆ Experiments, trials & deployment

Systems

- ◆ IMT-2000 (UMTS, CDMA2000, etc.)
- ◆ Beyond 3G and 4G systems
- ◆ Spectrum sharing and coexistence
- ◆ Spectrum agility, policies and open spectrum
- ◆ Mobile/Wireless network modeling, analysis and simulation
- ◆ Intelligent transportation system
- ◆ Cross-layer designs

New Items on PIMRC

1. The current status of research and specification of future Mobile Radio Systems is aimed to be presented in Focussed Sessions, e.g.,
 - China: Future Project 863, CCSA-CWTS
 - Europe: "Beyond 3rd Generation" project
 - World: IEEE Project 802
 - Americas: IETF/FCC/TIA/DARPA
 - Korea: NGMF, ETRI, CJK, WiBro, etc.
2. PIMRC 2005 for the first time offers a platform to bring together the computer networking and wireless communications research people.
3. Draft Program will be established end of May '05

Status of Paper Submission & Review Process

- ◆ Submission was closed on March 30, 2005
- ◆ Papers submitted: ~900
- ◆ 15-20 Invited Papers
- ◆ 10 Special Sessions
- ◆ Review process still running. Response by reviewers not really satisfactory.
- ◆ Schedule:
 - Acceptance notice: end of May 2005
 - Final manuscript due: 2nd half of June
 - Registration will open mid June

Patrons

Aim: Platin: 30 kEuro, Gold 18 kEuro, Silver >9kEuro



Contact established, Walke

Contact established, Walke



Started lobbying Klaus David

Contact establ. by Klaus David



Contact established. Sponsorship highly probable

Contact established, Walke



Lucent Technologies
Bell Labs Innovations



Lobbying started by Klaus David

Lobbying started, Petri Mähönen



Low probability of sponsoring

Low probability of sponsoring, Walke



Other contacts: so far negative

Contact established by Petri Mähönen



Miscellaneous

- ◆ Sponsor's contributions so far 0,00 Euro
- ◆ Invitation of Plenary Speakers is under discussion
- ◆ Keynote Speech reserved for Gold/Platinum sponsors
- ◆ Aim is 8-10 parallel tracks including Poster Sessions and Panels

WirelessCom 2005

- ◆ Location: Sheraton Maui Resort, Kaanapali Beach Maui, Hawaii, USA, June 13-16, 2005
- ◆ IEEE ComSoc approved the technical Sponsorship
- ◆ TPC: Dr. H. H. Chen
- ◆ Received about 700 paper submissions, 2 workshops and 6 Tutorial proposals
- ◆ About 270 papers have been accepted and expected to be presented
- ◆ 3 Well known Keynote Speakers
- ◆ Proceedings has an ISBN Number as well as an IEEE Catalog Number
- ◆ We appreciate the TCPC support

QShine'2005, Orlando, Florida, August 22-24, 2005

- ◆ QShine (International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks) focuses on various aspects of broad-sense QoS emphasizing **cross-layer design** philosophy, and it serves as a forum for both electrical engineers and computer scientists to address challenging networking design issues
- ◆ TPC consists of researchers from both electrical engineering and computer science
- ◆ Two-track format with papers of length up to eight camera-ready pages (longer than IEEE typical conference papers but shorter than ACM typical conference papers), a mini-INFOCOM like conference
- ◆ Financially sponsored by Creat-Net/ICST, technically sponsored by IEEE ComSoc (TCPC and TCCC) and ACM SigMobile
- ◆ Lined up with two special sections in journals
 - ACM Wireless Networks (WINET)
 - IEEE Transactions on Vehicular Technology
- ◆ Organizers
 - General Chair: Yuguang “Michael” Fang, University of Florida
 - TP Chair: Sherman Shen, University of Waterloo

Statistics

◆ QShine'2005

- Submission: 95
- Accepted: still under reviews

◆ QShine'2004

- Submission: 70
- Accepted: 35
- Attendance: 70
- Special issue: ACM Wireless Networks (8 papers)

WiMob'05

◆ IEEE INTERNATIONAL CONFERENCE ON

Wireless and Mobile Computing, Networking and Communications

WiMob'2005

August 22 – 24, 2005

Delta Centre-ville Hotel - Montreal, Canada

◆ **Purpose**

- ◆ The tremendous advances in wireless communications and mobile computing, combined with the rapid evolution in smart appliances and devices, generates new challenges and problems requiring interactions between different network layers and applications in order to offer advanced mobile services. We invite researchers, practitioners and others interested in wireless communications, mobile networking and ubiquitous computing to participate in the first IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob'2005) to be held in Montréal, Canada on August 22-24th, 2005.
- ◆ Prof. Samuel Pierre, samuel.pierre@polymtl.ca

WiMob'05 (cont'd)

- ◆ This conference will be comprised of the following three symposia:

Symposium 1: Wireless Communications

Symposium 2: Mobile Networking

Symposium 3: Ubiquitous Computing, Services and Applications

- ◆ Papers submitted: 252
- ◆ Papers accepted: 150 (~60%)
- ◆ For more information: <http://www.congresbcu.com/wimob2005/>

PWC'05 – 10th IFIP International Conference on Personal Wireless Communications

- ◆ August 25-27, 2005
- ◆ Colmar, France

192 papers from 31 countries were submitted, from which 57 have been accepted (~30%)

Topics: wireless sensors, signalization, traffic and QoS in wireless networks, Ad-Hoc, IEEE 802.11, cellular and mobiles networks

Sponsor: France Telecom, IFIP, ARP

ISWPC 2006



<http://www.iswpc.org/2006>

- ◆ 1st International Symposium on Wireless Pervasive Computing 2006
- ◆ Conference will emphasize on **concepts and enabling technologies for wireless pervasive computing**
- ◆ Aims to provide a platform for researchers to **showcase their results, launch new ideas, as well as to interact with colleagues from this area**
- ◆ Tutorial and panel sessions will be held
- ◆ Keynote and Plenary to be given by prominent figures from industry and academia
- ◆ Hosted by Suranaree University of Technology, Thailand
- ◆ To be held at **Hilton Phuket Arcadia Resort & Spa, Phuket, Thailand**
- ◆ General Co-Chair: Dr. Boon Sain Yeo



ISWCS 2005



<http://www.iswcs.org/iswcs2005>

2nd International Symposium on Wireless Communication Systems 2005 (ISWCS2005)

General Chair: Giovanni Giambene

University of Siena, Italy

General Co-Chair and Finance Chair: Boon Sain Yeo

Institute for Infocomm Research, Singapore

Technical Program Chair: Mario Gerla

UCLA Computer Science Department, CA, USA

Technical Program co-Chair: Maria Luisa Merani

University of Modena and Reggio Emilia, Italy

ISWCS 2005



<http://www.iswcs.org/iswcs2005>

2nd International Symposium on Wireless Communication Systems 2005 (ISWCS2005)

- ◆ Technically sponsored by Comsoc and endorsed by TCPC
- ◆ Papers to be included in IEEEXplore
- ◆ Expected to receive about 200+ submissions
- ◆ A specialized workshop on satellite and space communications is planned. The workshop is sponsored by SatNex. The workshop will have its own program (tutorials, keynote, panel and social event)
- ◆ 4 tutorials, one keynote (Victor Bahl, Microsoft), one plenary speaker (Dharma P. Agrawal, University of Cincinnati) and a panel – “Towards a wireless and ubiquitous information society” (panelist - Rajeev Shorey (IBM), Hajime Nakamura (KDDI R&D Lab) and Francesco Masetti-Placci (Alcatel)) planned
- ◆ Hosted by University of Siena, Italy
- ◆ To be held in the conference rooms of the University of Siena, of which are located in the heart of the Siena city center.

**International Conference on Wireless Communications, Networking
and Mobile Computing (WCNM 2005)**

September 23-26, 2005, Wuhan, P. R. China

<http://www.whu.edu.cn/WCNM2005>

Sponsor

Wuhan University, Wuhan, China

Co-sponsors:

IEEE Communications Society ,

IEEE Beijing Branch ,

Chinese Institute of Electronics,

Virginia Tech.

Honorary General Co-Chairs

T. Rappaport, Texas A&M U

J. N. Liu, Wuhan U, China

General Co-Chairs

R. Conners, Virginia Tech., USA

H. B. Zhou, Wuhan U, China

Technical Committee Co-Chairs

Y. Huang, U of Liverpool, UK

Q. Lu, Virginia Tech., USA

WCNM 2005 Conference Scope

Wireless Communication Technology

- ◆ Design, implementation, and evaluation of wireless systems
- ◆ Mobile network security, privacy, authorization, and billing
- ◆ Bluetooth, 802.11a/b/g technology and applications
- ◆ 3G & 4G technologies, standard selection in China
- ◆ Wireless and mobile channel modeling
- ◆ UWB and impulse radio
- ◆ QoS in wireless networks
- ◆ OFDM, MIMO, space-time coding
- ◆ Soft switch and NGN (Next Generation Network)

Networking and Systems

- ◆ Mobile computing systems, applications and services
- ◆ Operating systems for mobile devices and embedded systems
- ◆ Mobile gateway design and development
- ◆ Wearable computers, PDA designs and applications
- ◆ Mobile satellite communications
- ◆ Wireless sensors and Ad Hoc networks
- ◆ Systems for location determination and services

Application and Value Added Services

- ◆ Data management for mobile and wireless applications
- ◆ Tools and design methodologies for mobile and wireless systems
- ◆ GPRS/CDMA 1x and related value-added service
- ◆ Tools for wireless network monitoring and optimization
- ◆ RF optimization and frequency planning tools
- ◆ GPS/GIS/GPRS integrations and applications in wireless networks
- ◆ Software radio design and applications

2005 IST Summit – Sponsored by COMSOC

- ◆ 14th IST Mobile and Wireless Communications Summit
June 19-23, 2005, Dresden, Germany, www.mobilesummit2005.org
Chairman: Gerhard Fettweis
- ◆ The major forum for all European R&D projects
in the mobile, wireless, and satellite domain
- ◆ 1st IST Summit to obtain COMSOC Technical Co-Sponsorship
- ◆ Many other institutional sponsors and commercial supporters
- ◆ Received 501 submissions from 46 countries (record; 84% increase over 2004)
- ◆ 320 papers accepted; 4 tracks plus poster sessions over 3 days
- ◆ 2 special sessions, 4 selected tutorials, 6 workshops
- ◆ Contact: Patrick Herhold, herhold@ifn.et.tu-dresden.de

ISWSN (Int'l Symp. on Wireless Systems & Networks) 2005

- ◆ ComSoc endorsed after first rejection

- ◆ 81 submitted, 57 accepted, 3 withdrawn
- ◆ Original schedule: 25-27 April 2005, Bahrain
- ◆ Difficulties with local arrangements
 - postponed to 26-28 Sept 2005 at KFUPM, Saudi Arabia
- ◆ TP Chair Prof. Asrar Sheikh finalized the technical program on time as promised with 4 tutorials, but difficulties were beyond his control

Other Business

- ◆ Next TCPC meeting: at GC'05 in St. Louis, Missouri
- ◆ ComSoc elections
- ◆ ...