

全球移动通信大会® GMC'2005 / C3G & B3G SUMMIT

A Program of "Mission 2020" R&D Plan



October 10-12, 2005
Chongqing, China



批准单位: 中华人民共和国信息产业部 主办单位: 中国通信学会
Endorsed by Ministry of Information Industry Hosted by China Institute of Communications

Defining China Future Mobile Communication Technologies



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FINAL PROGRAM

Approved by Prof. Willie W. Lu, Founder and Technical Chairman of GMC Mission Worldwide

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全球移動通信大會 *A Program of "Mission 2020" R&D Plan*



Welcome Message by Prof. Willie W. Lu **Founder and Technical Chairman of** **GMC Mission Worldwide**

It is our great pleasure to welcome you to the 2005 Global Mobile Congress in Chongqing from October 10-12, 2005.

GMC'2005's theme is "Defining China Future Mobile Communication Technologies". Around 120

selected technical papers will be presented in this important technical conference, and major industry leaders will be delivering over 30 keynote speeches in this prestigious mobile summit. In addition, several special workshops will focus on China 3G Rollout, Beijing 2008 Olympic Games and China Future R&D Program, etc.

Research on Beyond 3G and 4G mobile communication has become extremely important towards the global mission of ITU WRC'2007. As of September 30, 2005, over 40,000 major research projects are involved on this subject, and by 2010 over \$500B will be invested for this emerging technology worldwide.

As a sub-conference of the world's premier World Wireless Congress and under "Mission 2020" R&D Plan, the conference served as an annual event for the research community in the region to share recent results, experimental data and to discuss future directions in B3G and 4G wireless and mobile communications. We are very excited to have attracted so many of the world's top researchers, scientists and engineers to this event, including, many IEEE fellows, famous professors and industrial pioneers in the field.

GMC'2005 will also act as the All-Hands forum for world-class technical experts and business executives in the field of emerging mobile communication technologies, and therefore many worldly best wireless talents and influential leaders will be participating in this great event.

We do hope that you will find the conference insightful and rewarding. Please enjoy the congress hospitality and the fantastic city of Chongqing – The famous 3-G (*Three Gorges*) City in the world!.

Welcome to China and enjoy your stay in Chongqing,

Cheers !

Prof. Willie W. LU

Founder, Owner and Technical Chairman, Global Mobile Congress Mission Worldwide
Program Director, Global "Mission 2020" R&D Plan, United States

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Distinguished experts and scholars, Dear friends and colleges,

We are very happy to welcome you all to attend GMC'2005 in Chongqing, China. Your participation to the conference are highly appreciated and are considered as a new step towards the international collaboration on developing next generation of mobile telecommunication for China and for the whole world.

China, with more than 360 million mobile subscribers, is not only a “big” country of mobile telecommunication in the world, but also provide the world a fast growing market of mobile telecom, alone in the first 7 months this year, there are more than 33 million new subscribers joined into the market. And, with 28% penetration rate, China still has great potential for further development, especially, in the vast western part of the country. Here in Chongqing, you can feel the rapidly “rising up” of the western area of China, and you could see a new arena of mobile telecom technology. China has also become a very active place of mobile telecommunication research and developments. The intensive research and development activities and not only engaged by major Chinese universities and companies, but also cooperated closely with foreign academic and industrial partners. As the Chinese mobile network service is going to turn to the 3rd generation, the researches are strongly addressing to the system beyond 3G or 4G.

Now it is the time for “transition”, transition from narrow band service to broad band service. Such a transition is facing the challenges of dramatically increasing the system capacity but using limited spectrum band, delivering high-quality multi-media information but at low cost, enhancing radio coverage but at low power, merging into IP era but keeping quality of service, pervasive but with high security, ..., etc. All of these give essential push or drive to theoretical and technical research, and so many new technologies arise: MIMO, OFDM, UWB, Mobile-IP, Space-time processing, Soft-Define-Radio, Open Wireless Architecture, etc. All of these will be discussed in the conference’s technical sessions and in the corridor, around lunch table andYes, the GMC2005 is a platform for exchange ideas and experiences between people from different country, from different research institutes, and between academia and industry.

I sincerely wish you enjoy the conference and have a happy stay in China.



Prof. Dr. GONG KE
General Chair of GMC'2005
Vice President of China Institute of Communication and Tsinghua University
Director of National Tsinghua laboratory of Information Science and Technology

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Greeting from General Co-Chairman



It is with greatest pleasure to welcome you to Globe Mobile Congress 2005 (GMC2005). Mobile communication market in China, as well as related research and development activities grows in a pace much faster than its averaged economy, and becomes an attraction around the globe. GMC2005 will define china future mobile communication technologies. I am sure that your participation and contributions will make the conference more successful and rewarding.

GMC2005 is sponsored by the Chinese Institute of Communications (CIC), jointly organized by Delson Group Inc. and Chongqing University of Posts and Telecommunications (CQUPT). The conference is also co-organized by IEEE Beijing Section, TD-SCDMA Forum, World Wireless Congress, Chongqing Science & Technology Commission, Chongqing Bureau of Foreign Experts, Chongqing Association of Science & Technology, and so on. GMC2005 is supported by many telecommunication operators and industries in the world. The conference committee express thanks to organizations mentioned as above.

GMC2005 received 697 paper submissions from more than 20 countries and regions. Some distinguished experts and guests, including Dr. Martin Cooper (Father of Cell-phone), Dr. Norman Abramson(Inventor of Aloha Protocol), Dr. Peter Stavroulakis(Chief Architect of Athens'04 Olympic Networks) et al, will give a series of keynote speech about future mobile communication technologies. I would like to express my sincere thanks to all authors, reviewers and speech experts for their devotion and contributions. The special thanks should be sent to Steering Committee, Technical Committee and Organization Office for their cordial and collaborative efforts, which make the conference a great success.

Chongqing is the only municipality directly administered by the central government in the western part of China. It is also an important industrial and commercial city on the upper reach of the Yangtze River. It is a place where the culture of over 3000 years mingles with the modernness of a fast-growing city under massive construction. I hope you may enjoy your stay in Chongqing during and after the conference.

Welcome to Chongqing and GMC'2005 !

Prof. Nie NIE
General Co-Chairman, 2005 Global Mobile Congress
President, Chongqing University of Post & Telecom (CUPT)

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Franklin Fu, Professor of NTU, Singapore

Schedule for GMC2005

	9th	10 th (Venue: Taishan Hall, 1 st Floor of Carlton Hotel)	11 th (Venue: 3 rd int. conference hall, 2 nd Floor of 3 rd teaching building, CQUPT)	12 th (Venue: Meeting rooms of CQUPT M&T Hotel)
AM 9:00-12:30	Tutorials (CQUPT) & Registration	9:00-9:35 GMC2005 Opening ceremony: Welcome Addresses Chaired by Prof. Ke GONG	9:00-10:40 Special Workshop on Secured Olympic'2008 Systems & Networks Chaired by Dr. Peter Stavroulakis	9:00-10:40 General Session of B3G/4G (Session A—D, N/A)
		9:35-10:00 Taking picture Tea/coffee time	10:40-10:50 Tea/coffee break	10:40-10:50 Tea/coffee break
		10:00-12:30 Keynote & Featured Speeches Chaired by Prof. Qianli YANG	10:50-12:30 Special Workshop on C3G and TD-SCDMA Chaired by Dr. Wang Jing	10:50-12:30 General Session of B3G/4G (Session A—D, N/A)
NOON 12:30-14:00	Registration	Reception by CQUPT (Venue: Carlton Hotel)	Luncheon by GMC2005 (Venue: CQUPT M&T Hotel)	Lunch time (Venue: CQUPT M&T Hotel)
PM 14:00-18:15	Registration	14:00-16:00 Keynote & Featured Speeches Chaired by Dr. Arlene Harris	14:00-16:00 Special Session of Fourth Generation Mobile Forum (4GMF'05) Chaired by Prof. Willie W. Lu	14:00-18:15 General Session of B3G/4G (Session A—D, N/A) and Down town tour in Chongqing
		16:00-16:15 Tea/coffee break	16:00-16:15 Tea/coffee break	
		16:15-18:15 Keynote & Featured Speeches Chaired by Prof. Willie W. LU	16:15-18:15 Special Workshop on Veno (Universal Transport in 4 th Generation Communication) Chaired by Dr. Fu Cheng Peng, Franklin	
EVE	Committee Meeting	Entertainment performance (Venue: S&T conference hall, CQUPT)	Dinner (Chongqing hot-dish)	Chongqing night View and fireworks Party

2005 全球移动通信大会日程

	10月9日	10月10日	10月11日	10月12日
上午 9:00-12:30	报到 (在所住宾馆大厅)	9:00-9:35 GMC2005 开幕式 南方君临酒店1层泰山厅	9:00-10:40 专题会议: 2008 北京奥运会通信网络和系统 重邮第3国际会议厅(第3教学楼内)	9:00-10:40 B3G/4G 分组报告(论文作者, 4个组) 重邮会训宾馆会议厅
		9:35-10:00 照相(重庆科技展览馆前)/茶歇	10:40-10:50 茶歇	10:40-10:50 茶歇
		10:00-12:30 权威专家特邀报告 南方君临酒店1层泰山厅	10:50-12:30 专题会议: C3G 和 TD-SCDMA 论坛 重邮第3国际会议厅(第3教学楼内)	10:50-12:30 B3G/4G 分组报告(论文作者, 4个组) 重邮会训宾馆会议厅
中午 12:30-14:00	报到	重邮欢迎宴会 南方君临酒店	大会午宴 重邮会训宾馆负1层餐厅	午餐 重邮会训宾馆负1层餐厅
下午 14:00-18:15	报到 (在所住宾馆大厅)	14:00-16:00 大会主题讲演 南方君临酒店1层泰山厅	14:00-16:00 专题会议: 第四代移动通信论坛(4GMF' 05) 重邮第3国际会议厅(第3教学楼内)	14:00-18:15 B3G/4G 分组报告(论文作者, 4个组) and 市区游览
		16:00-16:15 茶歇	16:00-16:15 茶歇	
		16:15-18:15 大会主题讲演 南方君临酒店1层泰山厅	16:15-18:15 专题会议: 通用无线传输技术(Veno) 重邮第3国际会议厅(第3教学楼内)	
晚上	组委会/技术委员会 会议	文艺演出 重邮科技会堂	晚餐(重庆火锅)	重庆夜景和烟花晚会

Honorable International Guests

	<p><i>Dr. Martin Cooper</i> <i>"Father of Mobile Phone"</i> <i>United States</i> <i>"Managing the Radio Frequency Spectrum for a Mobile China"</i></p>
	<p><i>Dr. Norman Abramson</i> <i>Inventor of Aloha Protocol</i> <i>United States</i> <i>"ALOHA to the Web"</i></p>
	<p><i>Dr. Peter Stavroulakis</i> <i>Chief Architect of Athens'04 Olympic Networks & Systems</i> <i>Greece</i> <i>"Secured Networks and Systems for Beijing Olympic Games"</i></p>
	<p><i>Dr. Arlene Harris</i> <i>"First Lady of Wireless"</i> <i>United States</i> <i>"Simplicity in Wireless"</i></p>

Final Program for GMC2005

OCT.10, A.M.

Venue: Taishan Hall, 1st Floor of Carlton Hotel

9:00-9:40 GMC2005 Opening ceremony

Chaired by Prof. Ke GONG, General Chairman of GMC2005, Vice President of Tsinghua University, China

Senior Officials of Central Gov't (MII, MOST, CAE, CQ, etc.)

Prof. Lin Jinquan, President of CIC, China

Prof. Nie Neng, President of CQUPT, China

Prof. Willie W. Lu, Founder and Technical Chairman of GMC mission, USA

Dr. Jing WANG, Secretary-general of TD-SCDMA Forum, China

Mr. Kuramoto Minoru, Vice President of YRP / VP of Panasonic Mobile, Japan

9:40-10:00 Taking picture; Tea/coffee time

10:00-12:30 Keynote & Featured Speeches

Chaired by Prof. Qianli YANG, Chief Engineer of CESEC, China

10:00-10:30 “Managing the Radio Frequency Spectrum for a Mobile China”

Dr. Martin Cooper, “Father of Cell-phone”, USA

10:30-11:00 “Proactive Enterprise: Next Generation Enterprise Networks and Applications”

Dr. Kai Miao, Architect of INTEL, USA

11:00-11:30 “ALOHA to the Web”

Dr. Norman Abramson, Inventor of Aloha Protocol, USA

11:30-12:00 “New R&D and Future Evolution of TD-SCDMA”

Dr. Shihe Li, “Father of TD-SCDMA/C3G”, China

12:00-12:30 “The Studies on Beyond 3G ”

Dr. Ping Zhang, Professor and Head, FUTURE/C4G Project, China

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OCT.10, P.M.

Venue: Taishan Hall, 1st Floor of Carlton Hotel

14:00-16:00 Keynote & Featured Speeches

Chaired by Dr. Arlene Harris, "First Lady of Wireless", USA

14:00-14:30 "Turning in to the Mobile Digital TV"

Mr. Gerald Kuo, Managing Director, Texas Instrument (TI), China

14:30-15:00 "Secured Networks and Systems for Beijing Olympic Games"

Dr. Peter Stavroulakis, Chief Architect of Athens'04 Olympic Networks, Greece

15:00-15:30 "Field Trials – An integral part of the test chain to create confidence in mobile terminal performance"

Dr. Klaus Matkey , Managing Director of CETECOM GmbH, Germany

15:30-16:00 "The Advantages of Fixed Wireless for the Village Phone Project"

Mr. Lixin Chen, President, Fixed Wireless, Axesstel, USA

16:00-16:10 Tea/coffee time

16:10-18:30 Keynote & Featured Speeches

Chaired by Prof. Willie W. Lu, Director of U.S. Center for Wireless Comm., USA

16:10-16:40 "Mobile Computing and Thoughts on Wireless Technologies in the Asia-Pacific Region"

Mr. Sean Maloney, Senior Executive VP of INTEL, USA

16:40-17:00 "From 3G toward B3G"

Mr. Masahiro Minomo, President and CEO, NTT DoCoMo China, Japan

17:00-17:20 "KDDI Labs' Vision for Ultra 3G"

Dr. Yoshio TAKEUCHI, Senior Manager, KDDI R&D Laboratories Inc, Japan

17:20-17:40 "Spreadtrum at the final stage of TD-SCDMA commercialization"

Mr. Zhao Tong, General Manager of 3G division of Spreadtrum

17:40-18:00 "Mobile Game and Application"

Dr. Seah Hock Soon, NTU, Singapore

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OCT.11 A.M.

Venue: 3rd Int'l Conference Hall , CQUPT

9:00-10:30 Special Workshop on Secured Olympic'2008 Systems & Networks

Chaired by Dr. Peter Stavroulakis, Chief Architect of Athens'04 Olympic Networks, Greece

- 9:00-9:20 "TETRA - As A Security Tool"
Prof. Peter Stavroulakis
- 9:20-9:40 "Novel Channel Assignment Scheme in Providing TETRA Specialized Services"
Prof. Stavros Kotsopoulos, Dr. K. Ioannou
- 9:40-10:00 "Robust, Real-Time Airborne Video Transmission Techniques in UHF and Microwave Channels"
Nikos J. Farsaris , Prof. Thomas D. Xenos, Prof. Peter Stavroulakis
- 10:00-10:20 "Wireless Interactive Television Delivery through Terrestrial DTV"
K. Kardaras and Prof. Peter Stavroulakis
- 10:20-10:40 "TETRA Network Application in Athens 2004 Olympic Games Security"
A. Spiliotopoulou, A Fragidis, D. Demestichas

10:40-10:50 Tea/coffee time

10:50-12:30 Special Workshop on C3G and TD-SCDMA

Chaired by Dr. Wang Jing, Secretary-general of TD-SCDMA Forum, China

- 10:50-11:10 "The evolution of TD-SCDMA technology"
Dr.Cai Yueming, Senior engineer of Datang Mobile
- 11:10-11:30 "A TD-SCDMA Network System Solution"
Dr. Jiang Yingbo, Vice CTO of China Putian Institute of technology
- 11:30-11:50 "To meet the challenge for 3G TD-SCDMA applications -- COMMIT, a growing power in TD-SCDMA industry"
Dr.Fang Min, Vice General Manager of COMMIT Inc.
- 11:50-12:10 "Commercial progress of LGE TD-SCDMA handset"
Dr.Qian Guoliang, Deputy director of LG Electronics's R&D institute
- 12:10-12:30 "R&D progress of TD-SCDMA 3G mobile phone in CYIT"
Prof. Zheng Jianhong, Vice president and CTO of CYIT, China

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OCT.11 P.M.

Venue: 3rd Int'l Conference Hall , CQUPT

14:00-16:00 Special Session of Fourth Generation Mobile Forum (4GMF'05)

Chaired by Prof. Willie W. Lu, "Inventor of 4G-OWA", Director of U.S. Center for Wireless Comm., USA

14:00-14:15 "Introduction to Open Wireless Architecture (OWA)"

Willie W. Lu, "Inventor of OWA", CWC, USA

14:15-14:30 "Spatial Channel Reuse in Multihop Mobile Communications System"

Takeo Ohseki, Naoki Fuke, Osamu Maeshima, Keizo Sugiyama, Mitsuo Nohara (KDDI)

14:30-14:45 "On the Forward Link VoIP Capacity of CDMA2000 1xEV-DO Revision A Wireless Networks"

Mahesh Makhijani, Patrick Hosein, Wanshi Chen, Rath Vannithamby, Young C. Yoon, Anthony C.K. Soong (Ericsson)

14:45-15:00 "Employing the Interference Cancellation Techniques in the GSM"

Wen Xu, Claudiu Krakowski, Hanguang Wu, Werner Kreuzer, Peter A. Hoehner, Sabah Badri-Hoehner (Siemens)

15:00-15:15 "An adaptive Inter-Carrier Interference Cancellation Iterative Receiver in HPI System"

Zhangyong Ma, Seok-Jin Lee, Young-Il Kim (ETRI)

15:15-15:30 "A Fast and Accurate Automatic Gain Control for a Wireless Local Area Network Receiver"

Peter Singerl, Christian Vogel (Infineon)

15:30-15:45 "Energy-efficient Addressing in Wireless Sensor Networks"

Rui Teng, Hiroyuki Morikawa, Tomonori Aoyama (Univ. Tokyo)

15:45-16:00 "Insight Analysis into WiMax Technology, Standards and Its Trends"

Hernan Cordova, Patrick Boets, Leo Van Biesen (VUB, Belgium)

16:00-16:15 Tea/coffee time

16:15-18:15 Special Workshop on Veno(Universal Transport in 4th Generation Comm.)

Chaired by Dr. Fu Cheng Peng, Franklin, "Inventor of Veno", Professor of NTU, Singapore

16:15-16:45 "Veno II: Strategic Thinking in Next Generation Communications"

Dr. Fu Cheng Peng, Franklin, "Inventor of Veno", NTU, Singapore

16:45-17:05 "TFRC Veno: An TCP Friendly Rate Congestion over Wired/wireless Networks"

Prof. Chang kuiyu, NTU, Singapore

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- 17:05-17:25 "Statistical Characteristics Analyzing and Modeling of TCP Veno Traffic in Wireless Mobile Self-Organizing Networks"
Ms Yu Qin, UESTC, China
- 17:25-17:45 "State Distinguishing or Loss Type Distinguishing"
Dr. Zou Zixuan, NTU, Singapore
- 17:45-18:00 "Resource Allocation for A Mobile Application Oriented Architecture"
Dr.Guo Yuanqing, UTwente, Netherlands
- 18:00-18:15 "A Smooth Handoff Scheme for Real-Time Service in Wireless LANs"
Thavisak Manodham, Univ. Elec. Comm, Japan

OCT.12: General Session of B3G/4G

Venue: Conference Meeting Rooms, CQUPT

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84	Yiqun Ge, Wuxian Shi	Adaptive Modulation and Coding based on WiMAX System for High Data Rate Applications
34	Shimin Liu, Fanxin Zeng , Lijia Ge	A New Method for Constructing Frequency Hopping Sequences with No Hit Zone
35	Stefano Marsili	A new method for Crest Factor Reduction suited for OFDM based WLAN application
76	Thavisak Manodham, Luis Loyola, Gustavo Atoche, Mitsuo Hayasaka, Tetsuya Miki	A Smooth Handoff Scheme for Real-Time Service in Wireless LANs
89	Chen Tianding	Adaptive Transmission Mode Selection in MIMO Systems
121	Chie Dou, Cheng-Hsun Lin	Assessment of the Downlink Capacity for WCDMA Networks through Investigating Intra- and Inter-Cell Interferences
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168	Jane Y. Yu, Peter H.J. Chong	Energy-aware routing in mobile Ad Hoc networks

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	And Hideyuki Shinonaga	with Frequency Domain Equalization
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199	Changbiao Xu, Yongju Xian, Shizhong Yang	Improving TCP Congestion Control to Avoid TCP Global Synchronization
200	Joachim Wehinger, Klemens Freudenthaler, Florian Kaltenberger, Jens Berkmann	Influence of SNR Estimation on HARQ Combining in UMTS-HSDPA
215	Wei Cui, Harald Kaaja	Low Latency Buffer Allocation for Hybrid Dual Radio Transceivers
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291	Yuanqing Guo, Gerard J.M. Smit	Resource Allocation for A Mobile Application Oriented Architecture
315	Jiang Hao, Kun Mean Hou, Jian-Jin Li, Jean-Pierre Chanet, Christophe De Vault, Hai-Ying Zhou, Gil De Sousa	The capacity and packets delivery of MANET On Road: MANETOR
335	Haibo Song, Massimo Bertinelli, Benoist Sébire	Transmit Power Allocation for High Speed Uplink Packet Access in WCDMA Systems
344	Haiying Zhou, Kun Mean Hou, Jean Ponsonnaille, Laurent Gineste, Christophe De Vault	Wireless Sensor Networks Dedicated to Remote Continuous Real-Time Cardiac Arrhythmias Detection and Diagnosis
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274	Chen Tianding	PPIC Techniques with Adaptive RAKE Combining for DS-CDMA UWB Wireless Communications
293	Yongju Xian, Changbiao Xu, Yang Tao	SCTP-based Differentiated Services
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19	Haitao Liu, Xingqing Cheng,	A Joint M-IQRD and ML Detection Algorithm for V-BLAST

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45	Xiao Hu, Junde Song, Mei Song, Wei Zhou	A Novel Dynamic Location Management Scheme for Hierarchical Mobile IP
55	Kai Peng, Tianping Deng, Yimin Lu	A Novel QoS Diffserv Model of WCDMA Research and Implement on Network Processor
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189	Xinglin Wang, Kai Niu, Weiling Wu	HSDPA with MIMO Performance Evaluation in Multipath Fading Channel

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191	Hu Yang, Yin Changchuan, Yue Guangxin	Hybrid Interference Cancellation Algorithm for V-BLAST System
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290	Yan Ren, Sidong Zhang, Hongke Zhang	Research on Performance of Hierarchical Mobile Network
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124	Li Hanqiang, Wei Guo, Zheng Hui	BER and Outage Probability performance of Maximal-Ratio Combining with Imperfect Channel Estimation
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129	Li Gang, Li Daoben	Blind GA Multi-User Detector for Downlink CDMA Systems
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