

**The 14th International Conference
on Advanced Communication Technology
(ICACT2012)**

Speaker's Biography

Paper code	20120383		
Title of Paper	Novel design of eMBMS based on Femtocell		
Speaker's Name	Otgonbayar Bataa		
Title	(Mr. / Ms. / Dr. / Prof.) Professor		
Organization	School of Information and Communication Technology of Mongolian University of Science and Technology		
Position in Organization	Leading professor of Wireless communication and broadcasting technology team		
E-mail	b_otgonbayar2002@yahoo.com ; otgonbayar@sict.edu.mn		
Full Mailing Address			
City	Ulaanbaatar	State	
Country	Mongolia	Postal Code	
Tel. No.	976-91915748	Fax. No.	976-70151333
Speaker's Biography (Please detail below special points of background experience)			

CURRICULUM VITAE

1. NAME: OTGONBAYAR Bataa

2. DATE OF BIRTH: 11 July 1955

3. NATIONALITY: Mongolian

4. FAMILY STATUS: Married

5. EDUCATION:

- 2004 Professor, Mongolian University of Science and Technology, Mongolia
- 2003 Mongolian Consulting engineer (N03-473)
- 1998 Associate professor, Mongolian University of Science and Technology.
- 1996 PhD, Moscow Institute of Telecommunication and Mongolian University of Science and Technology, Mongolia.
- 1995 Master of Science in Radio communication
Mongolian University of Science and Technology, Mongolia.
- 1978 Bachelor of Engineering in Radio and Telecommunication. Mongolian National University.

6. OTHER TRAINING:

- 2006 Invited Professor, Technical University, Darmstadt, Germany
- 2005 Moscow University of Information and Telecommunication
- 2002 - 2003 Post doctoral study, Supported by The Korea Foundation for Advanced Studies, Korea.
- 2001 USA, UVSC "Administration of Higher Education and American Studies" course
- 1996 Training to trainers, Supported by Korea Telecom International (KTI) in Mongolia.
- 1995 Computer Based Training/ Technology Based Training, Bandung, Indonesia.
- 1998 ESPI (English Special Purpose Institute)
- 1990 June to 1990 July, training to trainers, Moscow Institute of Telecommunication, Moscow.

7. LANGUAGE AND DEGREE OF PROFICIENCY:

Mongolian	(native language)
English	(excellent)
Russian	(excellent)

8. COMPUTER SKILL:

- Ability to work on Microsoft Windows, Excel, Word, Power Point, Adobe Photoshop and Vensim, Matcad and Matlab.

- ICDL (International Computer Driving License), 2009

9. WORK EXPERIENCE:

- ✓ From 2003 September to present Professor of Satellite and Wireless communications Team, Mongolian University of Science and Technology.
- ✓ From 2002 August to 2003 August, Invited Researcher, Radio Transmission Technology Research Department, Electronics and Telecommunications Research Institute, (ETRI), Korea.
- ✓ 2002 January –2002 August, Professor of Satellite and Wireless communications Team, Mongolian University of Science and Technology.
- ✓ 1992-2002, Head of Department of Radio Communication, Mongolian University of Science and Technology.
- ✓ 1978-1991, Lecturer and senior lecturer, Department of Radio Communication, Mongolian Technical University.

10. KEY QUALIFICATIONS

Mobile and Wireless Telecommunications

- Principal Investigator of Research Project “The Development of Mobile IPTV core technology” second stage, The Research Project is funded by the IT R&D program of Korean Communication Commission (KCC) and Ministry of knowledge based economy (MKE) [2010-10035206, The Development of IMT-Advanced Mobile IPTV core technology], Electronics and Telecommunications Research Institute of Korea (ETRI) and by Mobicom corporation of Mongolia. December 2011.
- Principal Investigator of Research Project “The Development of Mobile IPTV core technology” The Research Project is funded by the IT R&D program of Korean Communication Commission (KCC) and Ministry of knowledge based economy (MKE) [2010-10035206, The Development of IMT-Advanced Mobile IPTV core technology], Electronics and Telecommunications Research Institute of Korea (ETRI) and by Mobicom corporation of Mongolia. December 2010.
- Local consultant of the project “Technical Audit of Universal Access Projects in Mongolia”. The project is funded by The World Bank. 2008-2011.
- Principal Investigator of Research Project “A study on Wireless and Telephone Service based on WiBro system”. The Research Project is funded by Electronics and Telecommunications Research Institute of Korea (ETRI); 2008.
- Local consultant of the project “Technical Audit of Universal Access Projects in Mongolia”. The project is funded by The World Bank. 2008.
- Principal Investigator of the Collaborative Research project “Study on WiBro System Deployment Strategy in Mongolia”, Collaborative Research project, funded by Electronics and Telecommunication Research Institute (ETRI) of Korea. 01Oct 2006.
- Manager and expert of the project “Study on WiMAX Standard”, Dec 2006.
- Project manager of the Research project “Fourth Generations Mobile and Wireless Communications

Frequency and Timing Offsets Estimation Optimum Method for OFDM”, Research Project, funded by Asia Research Center (ARC) 01April 2004-01April 2005.

- Project expert of Research project “Fourth Generations Mobile and Wireless Communications Frequency and Timing Offsets Estimation”, The Research project, supported by The Korean Foundation for Advanced Studies, Korea. Aug 2002- Aug 2003.

Radio and TV Broadcasting

- Project expert on “Development of Rural Radio and TV network in Mongolia”, Mongolian Telecom Company.
- Project manager, “Define of Quality of Service for Radio Broadcasting Network in Mongolia”
- Project manager, “Study of Possibilities of Increasing TV Broadcasting coverage in UB, Mongolia”

11. INTERNATIONAL PAPERS:

- The analysis of two dimensional resource allocation procedures for IEEE802.16m of Mobile WiMAX systems with IEEE indexed paper, B.Otgonbayar, O.Batenkh, Young iL Kim, G.Khishigjargal organized by IEEE, IITA and ICSS ICNVSP 2011, Thailand, 2011
- “WiMAX 16m Mutual Information Based effective SINR Mapping” with IEEE indexed paper, B.Otgonbayar, U.Buyankhishig, L.Erdenebayar, organized by IEEE, IITA and ICSS, ICCVT2010, Proceeding, Vietnam, Hanoi, 2010.
- “Proportional Fair scheduling in IEEE 802.16m for Mobile WiMAX networks” with IEEE indexed paper, B.Otgonbayar, O.Tulga, P.Batmunkh, organized by IEEE, IITA and ICSS, ICCVT2010, Proceeding, Vietnam, Hanoi, December 2010.
- “WiMAX 16m Cell Handover Algorithm”, B.Otgonbayar. O.Tulga, N.Chuluunbandi, G.Gantuya, MUSTAK First International Conference proceeding, Oct 2010, Korea.
- “Performance Analysis of Mobile WiMAX MMR system with Vertical Handover”, B.Otgonbayar, Y.I.Kim, M.H.Bae, KICS, book N39, page162, 2009, Korea.
- “Effective RS Deployment in Mobile WiMAX MMR”; B.Otgonbayar, M.H.Bae, KICS Book N39, page 408, Korea.
- “Throughput Analysis of Mobile WiMAX MMR system”, B.Otgonbayar, Y.I.Kim, M.H.Bae Proceeding ICICT2009, page 85, Ulaanbaatar, Mongolia.
- “The study of the Coverage extension RS in Mobile WiMAX MMR network”, B.Otgonbayar, Mun Han Bae, G.Khishigjargal, ICICT 2009, page 380, Ulaanbaatar, Mongolia, 2009.
- “Analysis of wireless internet/telephone trends in underdeveloped communication infrastructure country”, B.Otgonbayar, ICICT2009 12-13Aug, Ulaanbaatar, Mongolia, 2009.
- "Performance Analysis for Mobile Channel Depending on Velocity", B.Otgonbayar, R.Bayarmaa, ICICT 2009 page 391, Ulaanbaatar, Mongolia.
- “RS allocation algorithm for WiBro MMR”, B.Otgonbayar, Y.I.Kim, M.H.Bae ICICT 2009, pp8, Ulaanbaatar, Mongolia.

- “A study on Wireless and Telephone Service based on WiBro system”. The Research Project report; 2009.
- International Conference on "Development of Nano technology and Mongolia 2008", “HAHO GSM it.s implementation in Mongolia”, B.Otgonbayar, page 226.
- The Path Loss Model for the WiBro MMR Technology, B.Otgonbayar, G.Khishigjargal, Ulaanbaatar, MUST, 2007, / ICICT 2007, page 62/
- Final report on “Study on WiBro System Deployment Strategy in Mongolia”, 2007.
- Mongolian National Standard on ”Radio interface and network, technical requirements of WiMAX”, MNS5741:2007
- Some results of frequency and timing offsets gradient estimation method for OFDM systems, Proceeding of the 8th International conference on Electronics, Information, and Communication ICEIC 2006, Ulaanbaatar, Mongolia, pp 5-7.
- “Study on WiMAX Standard”, Dec 2006.
- “Internet services and e-commerce in Mongolia”, Proceeding of the 8th International conference on Electronics, Information, and Communication ICEIC 2006, Ulaanbaatar, Mongolia, pp 22-25.
- “Fourth Generations Mobile and Wireless Communications Frequency and Timing Offsets Estimation Optimum Method for OFDM”, Research Project report, funded by Asia Research Center (ARC), 01 April 2005.
- The Research project report on “Fourth Generations Mobile and Wireless Communications Frequency and Timing Offsets Estimation algorithm”, CIC 2003.
- “Fourth Generations Mobile and Wireless Communications Frequency and Timing Offsets Estimation”, The Research project report, supported by The Korean Foundation for Advanced Studies, Korea. Aug 2003.
- “A Frequency &Timing Offsets Estimation Optimum Method” research project report, Asia Research Center, 2005.
- A Frequency &Timing Offset Gradient Estimation Iteration Algorithm, International Conference CIC2003 Proceeding, October 2003, Seoul, Korea
- “The Fourth Generations Mobile Communications Technology” Frequency &Timing Offset Estimation for OFDM systems, The Korea Foundation for Advanced Studies, News letters, 82 p20, April 2003, Seoul, Korea.
- “The Fourth Generations Mobile Communications Technology” Frequency &Timing Offset Gradient Estimation Algorithm, The Korea Foundation for Advanced Studies, News letters, 84, p 24.Korea, Seoul.
- “A new model for Rural Telecommunication of Mongolia”, ICEIC 2002, Ulaanbaatar, Mongolia, 2002.
- ”Future of Wireless communication in Mongolia”, ICEIC 2002, Ulaanbaatar, Mongolia.

- “Internet and e-commerce in Mongolia”, Asian Productivity Organization, APO News, 2001, Jakarta, Indonesia,
- “Mobile communications technology Development and Future trends”, The 14th International Conference Korean and Mongolia, p. 152-1, 2001, Ulaanbaatar, Mongolia

12. CONTACT ADDRESS:

Telephone: 976-70154333

Mobile phone: 976-91915748

Fax: 976-70151333

Email: b_otgonbayar2002@yahoo.com

Post address: POB 53, Mongolian Central Post,
Ulaanbaatar-13, Mongolia.

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