Curriculum Vitae

Lamjav Erdenebayar

PERSONAL INFORMATION

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EDUCATION

Mongolian University of Science and Technology	Ulaanbaatar, Mongolia
Ph.D. in Wireless Communication	2018
M.S. in Information Technology	2011
B.S. in Telecommunication Engineering	2010

EMPLOYMENT

- 2019-present: Lecturer, School of Information and Communication Technology, Mongolian University of Science and Technology, full-time;

- 2015-2019: Lecturer, School of Information and Communication Technology, Mongolian University of Science and Technology, full-time;

- 2011-2014: Trainee teacher, School of Information and Communication Technology, Mongolian University of Science and Technology, full-time;

  2010-2011: Instructor, School of Information and Communication Technology, Mongolian University of Science and Technology, full time;

GRANTS AND AWARDS

Best Research Paper Awards, 04.06.2017, IFOST

RESEARCH INTEREST

- 4G and 5G mobile technology
- Wireless technology
- IT for Communication systems
- Multimedia technology
- IPTV
- Modeling and Simulation

RESEARCH EXPERIENCE

- A Study of radio resource management and sensing network topology for railway sensing network: Research project / G.Khishigjargal, B.Otgonbayar, B.Sukhbat, U.Buyankhishig, E.Erdenetuya, D.Erdenetuya, L.Erdenebayar, P.Narangerel, P.Bumduuren.,-Ulaanbaatar.,2017.
- The Development of IoT based on LTE-Advanced Technology: Research project / G.Khishigjargal, B.Otgonbayar, L.Erdenebayar and others,-Ulaanbaatar.,2016.
- The Development of ICS system based on LTE/3GPP: Research project / B.Otgonbayar, L.Erdenebayar, U.Buyankhishig ба бус.,- Ulaanbaatar.,2013.
- The Development of Mobile IPTV core technology based on LTE/3GPP: Research project / B.Otgonbayar, Young II Kim, U. Munkhbold, J.Javzansuren, O.Bat-Enkh, N.Chuluunbandi, O.Tulga, Ch.Oyu, D.Erdenetuya, P.Uuganbayar, E.Erdenetuya, B.Purevtseren, L.Erdenebayar, N.Narandelger.,- Ulaanbaatar.,2012.
- The Development of Mobile IPTV core technology based on WiMAX: Research project / B.Otgonbayar /project leader/, Young II Kim, U. Munkhbold, L.Batkhishig, J.Javzansuren, O.Bat-Enkh, N.Chuluunbandi, O.Tulga, U.Buyankhishig, R.Bayarmaa, D.Erdenetuya, P.Uuganbayar, E.Erdenetuya, G.Gantuya, B.Purevtseren, L.Erdenebayar, P.Batmunkh, N.Narandelger, A.Bolormaa.,- Ulaanbaatar.,2011.

TEACHING EXPERIENCE

- Signals and systems, Cellular Mobile Communication System, System modeling and simulation, Simulation of Communication systems

CERTIFIED COPIES OF OFFICIAL CERTIFICATES

- The Development of IoT based on 3GPP/LTE: Copyright certificate of Mongolia /B.Otgonbayar, G.Khishigjargal, L.Erdenebayar, U.Buyankhishig, D.Erdenetuya, Ж.Жавзансүрэн Бүтээлийн нэр, N8515, 2017.04.14.

- Railway Monitoring system based on WSN with Wind energy harvesting: Copyright certificate of Mongolia / B.Otgonbayar, G.Khishigjargal, L.Erdenebayar, T.Uranchimeg, D.Erdenetuya, J.Javzansuren, P.Narangerel, P.Bumduuren, P.Uuganbayar, N8516, 2017.04.14.

- Dynamic GTS allocation algorithm in WSN: Copyright certificate of Mongolia / B.Otgonbayar, G.Khishigjargal, L.Erdenebayar, N8518, 2017.04.14.

SUMMARY

- Ability to work independently as well as in a team with others.

- Experience in modeling and computer simulation: Matlab, Visual Studio, Anaconda, Java Netbeans, Dreamweaver.
- Computer skills: Windows, C/C++, 3D Max, MS Office, Photoshop etc.

PUBLICATION

Scientific publication:

1. "Investigating User-Level and System-Level Packet Scheduling Performance in LTE", Erdenebayar L, Otgonbayar B, Chuluunbandi N, Khishigjargal G, ICTFocus 2023
2. The study of Channel allocation optimization for LTE/WiFi hybrid network / Bayarmaa R, Kinoshita K, Erdenebayar L, Otgonbayar B, Khishigjargal G // Enation-100
3. The study on development of lora network power management algorithm / Erdenebayar L, Chuluunbandi N, Batdalai S // Enation -100
4. The study of improve the efficiency of LTE network services / Erdenebayar L, Otgonbayar B, Chuluunbandi N, Khishigjargal G // Mongolian Information technology
5. Some feasible research to improve the efficiency of LTE network services / L.Erdenebayar, B.Otgonbayar, N.Chuluunbandi, G.Khishigjargal //Journal on Information Technology of Mongolia, -2018.-№1.-X.25-27.
6. Efficient dynamic algorithms for GTS allocation of Wireless sensor network in Rail communications / Erdenebayar L, B.Otgonbayar, G.Khishigjargal, P.Uuganbayar //IFOST, -2017.-№1.-X.25-27.
7. Possibility of Cellular IoT based on LTE networks / B.Otgonbayar, Erdenebayar L, Buyankhishig G.Khishigjargal //IFOST, -2017.-№1.-X.25-27.
8. The Study of Radio Resource Allocation in LTE network / L.Erdenebayar, B.Otgonbayar, N.Chuluunbandi, G.Khishigjargal // Journal on Information Technology of Mongolia -2017, -2017.-№1.-X.106-112.
9. Bandwidth Requirement for Proposed Dynamic Broadcasting Protocol In VoD Services / Erdenebayar L, Otgonbayar B, Khishigjargal G //Khurel Togoot 2016, -2016.- №1.-X.25-27.
10. Efficient GTS Allocation for Wireless Sensing Technologies / G.Khishigjargal, L.Erdenebayar, B.Otgonbayar, Young-il Kim //MUSTAK-2016, -2016.-№1.-X.132-136.
11. Resource allocation in WSN network / L.Erdenebayar, B.Otgonbayar // The role of the information and communications technology sector -2016, -2016.-№1.-X.25-27.
12. Survey on QoS Management of Resource Utilization in LTE and The IoT - M2M Environment / B.Otgonbayar, L.Erdenebayar //6th MUSTAK International Conference2015, -2015.-№1.-X.147-152.
13. The development of LTE models for IoT / L.Erdenebayar, G.Khishigjargal, B.Otgonbayar //MMT-2016, -2015.-№1.-X.144-148.
14. Internet of Things: Possibility of IoT Design for Public Safety Network / B. Tuyatsetseg, B. Otgonbayar, L.Erdenebayar, U.Buyankhishig //MUSTAK 2015, -2015.- №1.-X.50-54.
15. The Study of Traffic Models in LTE network / L.Erdenebayar, B.Otgonbayar, Youngil Kim //research papers of SICT, -2015.-№1.-X.196-201.12. The study publications of Mongolian researchers published WoS and Scopus ranked journals, Erdenekhuu Norinpel, Baljinnyam Tsevegmed, Erdenebayar L. conference on some issues of higher Educations innovation of Mongolia, pp 331-337, 2015
16. Optimize resource allocation using Service control algorithm in LTE / L.Erdenebayar, B.Otgonbayar, Young-il Kim //Present and future of Information and Communication Technology,-2015.-№1.-X.26-33.
17. ICS Algorithm Implementation in 3GPP/LTE / B.Otgonbayar, L.Erdenebayar, P.Uuganbayar, G.Khishigjargal //Ubi-Media computing &workshops, -2014.-№1.-X.25-27.
18. Modelling LTE Interfaces Dependent on Channels And Corresponding Control Plane / L.Erdenebayar, B.Otgonbayar //MUSTAK 2014,-2014.-№1.-X.205-208.

19. The Study of mobile IPTV in LTE networks / B.Otgonbayar, L.Erdenebayar, N.Chuluunbandi, G.Khishigjargal, Ch.Oyu, U.Buyankhishig, P.Uuganbayar,
20. B.Purevtseren, E,Erdenetuya, R.Bayarmaa, D.Erdenetuya //Present and future of Information and Communication Technology,-2014.-№1.-X.194-206.
21. Interference Cancellation Algorithm with Pilot in 3GPP/LTE / B.Otgonbayar, L.Erdenebayar, U.Buyankhishig //ICCST, -2013.-№1.-X.86-89.
22. Interference Cancellation Algorithm for 2x2 MIMO System without Pilot in LTE / B.Otgonbayar, L.Erdenebayar, P.Uuganbayar, Young-il Kim, G.Khishigjargal //Journal of Communications and Networks, WiCom 2013, IEEE Scientific Research, -2013.- №5.-X.31-35.
23. Solutions for high level design of ICS in 3GPP/LTE / B.Otgonbayar, P.Uuganbayar, L.Erdenebayar //The role of the information and communications technology sector, -2013.-№1.-X.116-122.
24. Service Control Algorithm of Providing Efficient Video-on-Demand Service using Hybrid Mechanism / B.Otgonbayar, L.Erdenebayar, B.Sukhbat, N.Chuluunbandi, P.Uuganbayar, Young-il Kim, G.Khishigjargal //CECNet 2012, -2012.-№5.-X.3507- 3512.
25. A Functional Design of BM-SC to Support Mobile IPTV in LTE Network / B.Otgonbayar, Ch.Oyu, O.Tulga, L.Erdenebayar, Young-il Kim, G.Khishigjargal // IFOST 2012, -2012.-№1.-X.784-788.
26. Service control algorithm for Mobile IPTV / B.Otgonbayar, L.Erdenebayar //MUST SICT, -2012.-№1.-X.158-165.
27. Some results of Mobile IPTV transfer implementation in LTE/3GPP network / B.Otgonbayar, Ch.Oyu, L.Erdenebayar //Advanced training innovation and Innovation technology, MUST, -2012.-№1.-X.25-27.
28. Mobile IPTV VoD service control algorithm / B.Otgonbayar, P.Uuganbayar, L.Erdenebayar, Ch.Oyu, E.Erdenetuya //Khurel Togoot 2012, -2012.-№1.-X.331-339.
29. The results of Link level simulation of Mobile IPTV core technology based on WiMAX / L.Erdenebayar, B.Otgonbayar // The role of the information and communications technology sector-2011, -2011.-№1.-X.345-348.
30. WiMAX 16m Mutual Information based effective SINR mapping / U.Buyankhishig, L.Erdenebayar, B.Otgonbayar /International conference on Communication and Vehicular technology ICCVT 2010, , -2010.-№1.-X.77-80.