



**BAYARMAA RAGCHAA**

Apartment 79-5, 39<sup>th</sup> khoroo, Bayanzurkh district, Ulaanbaatar, Mongolia

Tel: +976-77035789/ Mobile: +976-90112338

[bayarmaa.r@must.edu.mn](mailto:bayarmaa.r@must.edu.mn)

**EDUCATION**

- Department of Information Science and Intelligent Systems, 2023  
Graduate School of Advanced Technology and Science,  
Tokushima University  
**Doctor of Engineering in Systems innovation Engineering**  
Dissertation: A Study on Spectrum Sharing between Cellular and Wi-Fi  
Networks  
School of Information and Communication Technology, Mongolian 2008  
University of Science and Technology, Ulaanbaatar, Mongolia  
**MSc in Radio Communication**  
Thesis: The study on OFDM platform  
School of Information and Communication Technology, Mongolian 2005  
University of Science and Technology, Ulaanbaatar, Mongolia  
**BSc in Television Engineering**  
Thesis: The project on solution of digital television network for the  
Mongolian National Television  
The Secondary Education School no. 67, Ulaanbaatar, Mongolia 2001  
**Full Secondary Education**

**WORK EXPERIENCE**

- Training master at Communication department, SICT, MUST 2005 to 2008  
Assistant Lecturer at Department of wireless communication, SICT, MUST 2008 to 2010  
Lecturer at Department of wireless communication, SICT, MUST 2010 to 2023  
Senior lecturer at Department of wireless communication, SICT, MUST 2024 to present

**RESEARCH INTEREST**

Spectrum management, heterogeneous wireless systems, and mobile networks

**PUBLICATIONS AND PAPERS**

- Bayarmaa Ragchaa, and Kazuhiko Kinoshita, "Spectrum Sharing between Cellular and Wi-Fi Networks Based on Deep Reinforcement Learning", International Journal of Computer Networks & Communications (IJCNC) Vol.15, No.1, January 2023.  
<https://airconline.com/ijcnc/V15N1/15123cnc08.pdf>  
[https://www.researchgate.net/publication/368525535\\_Spectrum\\_Sharing\\_between\\_Cellular\\_and\\_Wi-Fi\\_Networks\\_based\\_on\\_Deep\\_Reinforcement\\_Learning](https://www.researchgate.net/publication/368525535_Spectrum_Sharing_between_Cellular_and_Wi-Fi_Networks_based_on_Deep_Reinforcement_Learning)
- Bayarmaa Ragchaa, and Kazuhiko Kinoshita, "Deep Reinforcement Learning Based Channel Assignment for Cellular and Wi-Fi Heterogeneous Network in Unlicensed Bands" APNOMS 2022 (The 23 rd Asia-Pacific Network Operations and Management Symposium), Sep 28-30, 2022.  
<https://www.ieice.org/cs/icom/apnoms/2022/innovationSessions.html>

- Bayarmaa Ragchaa, and Kazuhiko Kinoshita, "An Efficient Channel Assignment based on Deep Reinforcement Learning in Heterogeneous Wireless Network with Unlicensed Bands", RISING, Nov 15, 2021.
- [https://ken.ieice.org/ken/search/index.php?search\\_mode=form&year=39&psort=1&pskey=author%3A%22Bayarmaa+Ragchaa%22&ps2=1&layout=&lang=eng&term=AUTHOR](https://ken.ieice.org/ken/search/index.php?search_mode=form&year=39&psort=1&pskey=author%3A%22Bayarmaa+Ragchaa%22&ps2=1&layout=&lang=eng&term=AUTHOR)
- Bayarmaa Ragchaa, and Kazuhiko Kinoshita, "A Performance Evaluation on Channel Assignment based on Deep Reinforcement Learning in Heterogeneous Wireless Network with Unlicensed Bands", RISING, Oct 31, 2022.
- [https://ken.ieice.org/ken/search/index.php?search\\_mode=form&year=39&psort=1&pskey=author%3A%22Bayarmaa+Ragchaa%22&ps2=1&layout=&lang=eng&term=AUTHOR](https://ken.ieice.org/ken/search/index.php?search_mode=form&year=39&psort=1&pskey=author%3A%22Bayarmaa+Ragchaa%22&ps2=1&layout=&lang=eng&term=AUTHOR)
- Some methods of Satellite Multi-Beam Operations for Fleet Tracking Systems, Khurel togoot -2014, 10/14/2014 178
- Simulation results of fleet tracking system via multiple-beam satellite, MUSTAK proceedings, 2012, 10/6/2013, 55
- Some research results of fleet trucking system via satellite, APSCO Fourth International symposium abstract book, 11/6/2012, 39

#### **TRAINING FOR PROFESSIONAL DEVELOPMENT**

- |   |      |
|---|------|
| • CCNAv7: Introduction to Networks, Mongolian School of Networking, Ulaanbaatar, Mongolia                 | 2024 |
| • Pentest Plus, Ulaanbaatar, Mongolia   | 2023 |
| • APSCO Training Course on Satellite Communication Technology and operations, CITA, Ulaanbaatar, Mongolia | 2018 |
| • Small satellite Mission, no. SSM-17-126, CSSTEAP, ISRO, Dehradun, India                                 | 2017 |
| • Satellite communication 9 months postgraduate course, SAC, no. PSC-11-118, Ahmedabad, India             | 2012 |
| • MATLAB programming and application, Inner Mongolian University of Science and Technology                | 2010 |
| • ICDL International Computer Driving License, MNIF0000020, Ulaanbaatar, Mongolia                         | 2008 |
| • Intermediate knowledge of English, JET school of English, Ulaanbaatar, Mongolia, 07/55675               | 2007 |