Curriculum Vitae

Batdalai Sukh

PERSONAL INFORMATION

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EDUCATION

Tokushima University	Tokushima, Japan
Ph.D. in Optical system Engineering	2019
Mongolian University of Science and Technology	Ulaanbaatar, Mongolia
M.S. in Information Networking Engineering	2012
B.S. in Optical Communication Engineering	2010

EMPLOYMENT

2022– Associate Professor, Mongolian University of Science and Technology, Mongolia

2021–2022 Senior Lecturer, Mongolian University of Science and Technology, Mongolia

2014–2021 Lecturer, Mongolian University of Science and Technology, Mongolia

2012–2014 Assistant lecturer, Department of Wireless Communication, School of Telecommunication and Information Technology, Mongolian University of Science and Technology

2010-2012 Teaching Engineer, Department of Telecommunication, School of Telecommunication and Information Technology, Mongolian University of Science and Technology

GRANTS AND AWARDS

Best Research Paper Awards in 13th International Conference of Technology and Innovation (KHURELTOGOOT-2017), Ulaanbaatar, Mongolia

RESEARCH INTEREST

- Flexible optical network
- Optical advanced modulation format conversion
- Internet of Tings

RESEARCH EXPERIENCE

TEACHING EXPERIENCE

- Optical communication, Flexible optical network, Wireless sensor network, Internet of Things

SHORT-TERM TRAINING EXPERIENCE

- AC loss calculating superconducting cable in Miyakonojo college Japan March 2015
- Intensive Course Japanese Language program International Center of Tokushima University , August 6, 2018 Tokushima, Japan.
- APSCO Microsatellite Contest in North Western Polytechnical University October 31, Xian,China

SUMMARY

- Ability to work independently as well as in a team with others.
- 6 years of research experience in the optical communication.
- Adequate knowledge on flexible optical network, advanced modulation format, modulation format conversion, LoraWan
- Experience in modeling and computer simulation: Matlab, Opticsystem,COMSOL
- Computer skills: Linux/Windows, C/C++, Embedded system, MS Office, node red etc.

PUBLICATION

Scientific publication:

1. *Л.Эрдэнэбаяр, Н.Чулуунбанди, С.Батдалай. (2021). Lora сүлжээний тэжээл зарцуулалтыг удирдах алгоритмын хөгжүүлэлт. Цахим Үндэстэн-100*
2. *Batdalai Sukh, Hiroki Kishikawa, Nobuo Goto,"Performance Verification of Optical Modulation Format Conversion from 16QAM to Symbol Rate Doubled QPSK,"OSA Advanced Photonics Congress 2018, Zurich, Switzerland, JTu5A.60, July 2018.*
3. *B. Sukh, H. Kishikawa, N. Goto and G. Shagdar, "All-Optical Modulation Format Conversion From QPSK to Symbol Rate Doubled BPSK Using FWM and Pulse Width*

Compression," in Journal of Lightwave Technology, vol. 35, no. 19, pp. 4219-4226, 1 Oct.1, 2017, doi: 10.1109/JLT.2017.2736001.

4. *Batdalai Sukh, Hiroki Kishikawa, Nobuo Goto, Orgil Jargalsaikhan and Munkhbayar Adiya, "Reverse Conversion of Modulation Format from QPSK to BPSK using FWM, Interference, and Comb-Like Profiled Fiber" in 13th International Conference of Technology and Innovation (KHURELTOGOOT-2017), Ulaanbaatar, Mongolia, 12-15, Ulaanbaatar, Oct. 2017.*
5. B. Sukh, H. Kishikawa, and N. Goto, "Performance verification of all-optical modulation format conversion from QPSK to symbol rate doubled BPSK," in Advanced Photonics 2017 (IPR, NOMA, Sensors, Networks, SPPCom, PS), OSA Technical Digest (online) (Optical Society of America, 2017), paper JTu4A.23.
6. Batdalai Sukh, Hiroki Kishikawa, and Nobuo Goto, ``Pulse Compression Technique Applied to QPSK Signal Using HNLF and SMF, `` Optics & Photonics Taiwan, the International Conference (OPTIC 2016), Taipei, Taiwan, 270018 (Dec. 2016).
7. Batdalai Sukh, Hiroki Kishikawa, and Nobuo Goto：「Characteristics of Pulse Compression Technique for QPSK Signal Using HNLF and SMF」電気関係学会四国支部連合大会、12-23（Sept. 2016).
8. Noji Hedeki, Batdalai Sukh "AC Loss Analyses of Superconducting Power Transmission Cables Using Narrow BSCCOTapes" In 27th International Symposium on Superconductivity Japan. 2014
9. Batdalai Sukh, Noji Hedeki "AC loss computation of single isolated superconducting tapes" COMSOL CONFERENCE 2013 Japan.
10. Terenlkham Batdorj, Batdalai Sukh, Buyankhishig Zundui "Match-Zender modulator" In Proceedings of Research Conference on "Current and Future Trend of ICT", Defence University of Mongolia, 2013
11. Terenlkham Batdorj, Batdalai Sukh, Buyankhishig Zundui "Antenna Tracking System for Broadband Portable terminal" The 8th International Forum on Strategic Technology 2013 Mongolia. 2013
12. Ariuna Tsogbadrah, Batdalai Sukh, Buyankhishig Zundui "Introduction of FSO technology for Mongolian ICT network", MUSTAK-2012 Ulaanbaatar Mongolia 2012
13. Terenlkham Batdorj, Batdalai Sukh, Buyankhishig Zundui "Some result on simulation of SDH multiplexer" In Proceedings of International conference on knowledge based industry of ICKI-2011, Korea. 2011