Uyangaa Khuchit

**Mongolian University of Science and Technology, School of ICT,
Lecturer in the Department of Information Network and Security**

I have ten years of experience as an instructor and course developer. Formerly, the research interest was in image processing and embedded devices in electronics. Lately, I have passion for the cybersecurity industry and a desire to be part of growing the careers of a diverse new generation of cybersecurity professionals. Specifically, motivated in the Post-Quantum Resistant Lattice-based Cryptography algorithms and its side-channel security based on hardware devices such as embedded boards.

Contact Details

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Education

2016 - 2023
PhD. Candidate *| PhD Degree Program in CyberSecurity*
Tsinghua University (清华大学), China

2010 - 2013
Master of Science *| Master degree Program in School of ICT*
Mongolian University of Science and Technology, Mongolia

2005 - 2010
Bachelor of Electronic and Telecommunication Technology *|*
Mongolian University of Science and Technology, Mongolia

2003 - 2005
Secondary School *| New Mongolia High School*

Work Experience

2024.02 – Present
Part-time Lead Auditor of ISO27001 ISMS at MonCertf LLC

2023 – Present
Lecturer of networking and cybersecurity subjects, Department of Information Network and Security I SICT, MUST, Mongolia

Sep. 2023 – Present
Part-time Lecturer of Algorithm and C programming I GMIT, Mongolia

Mar. 2023 – Present
Principal Editor of ICTFocus Journal I MUST

Set. 2016 – Present
PhD Candidate, full/ half time researcher I Tsinghua University, China

2014 – 2017
Research Assistant I Taiwanese-Mongolian Joint Research Project

2013 – 2023
Lecturer of electronics subjects, Electronics Department I SICT, MUST, Mongolia

2010 - 2013
Student matter expert, Academic Faculty Staff I SICT, MUST, Mongolia

Professional training, certificates

1. Fidelitas Partners , JICA, " Training the trainer: Cybersecurity Laws and Regulations", 2024.

2. Cisco Networking Academy, CCNAv7: Introduction to Networks, 2023.

3. International Standart Academy, "ISO 27001： 2022 – Information Security Management Systems– Lead Auditor", ISA ISMS23080102M4/0001, 2023.

4. Comptia Authorized Partner, System Center LLC, "Comptia Pentest+", 2023.

5. EC-Council, System Center LLC, "Certified Ethical Hacker", 2023.

6. JICA, MUST, "Project for Development of Human Resources in Cybersecurity: Trainer of CyberSecurity Awareness", 2023.

7. International Standart Academy, "ISO 9001： 2015 – Quality Management Systems – Internal Auditor", ISA QMS23070102M3/1123, 2023.

8. Professional Accreditation Council for ICT experts, "Professional engineer ICT sector of Mongolia", Scope: Electrotechnics and Equipments Automatization, 22-422, 2022.

9. Franklin Covey, "The 7 habits of Highly Effective People", №D-0025,　2020.

10. China, Tsinghua University, PhD Completion Certificate (22 credit hours),　2016-2023.

11. China, Tsinghua University, "Innovation and Entrepreneurship Practice" (1credit hour), №2018-60510271,　2019.

12. China, Tsinghua University, "AI SoC Design" (1credit hour),　№2018-Y0260101,　2018.

13. China, Tsinghua University, "Innovating Entrepreneurship for Digital Economy" (1credit hour), №2018-Y4100091,　2018.

14. MUST, Training of Teaching License №929, 2013.

Recent publications

- "Хүний нүүрийг таних аргын судалгаа" Ц.Хүрэлбаатар, Ч.Батчулуун, Хүрэл Тогоот ЭШХ, 2013. УБ
- "Edge Detection on an ARM Cortex A8 based Embedded System" Ц.Хүрэлбаатар, MUSTAK, 2014 p233-235, Printed in Korea
- "Нүүр таних системийг хэрэгжүүлэх арга замын судалгаа" Ц.Хүрэлбаатар, Эрдэм шинжилгээний бүтээлийн эмхэтгэл (ШУТИС), № 7/, хх p59-62, 2014, УБ
- "Design of mobile service robot system using wireless video communication for indoor environments" Ц.Хүрэлбаатар, Б.Дамдинсүрэн, Холбоо, Мэдээллийн Технологийн өнөө ба ирээдүй-2015 ЭШХ (БХИС), 2015, УБ ISBN: 99973-941-8-7
- "Бодит хугацаанд дүрс дамжуулж хөдөлгөөн дагадаг хяналтын роботын загварчлал ба түүний хэрэглээ" Ц.Хүрэлбаатар, Д.Содхүү, Б.Дамдинсүрэн, "Мэдээлэл Холбооны Салбарын Хөгжилд Бидний Гүйцэтгэх Үүрэг 2015" ЭШХ (МХТС), 2015, УБ №07/170 234-237
- "Some implementation of live video transmission and motion tracking" Б.Дамдинсүрэн, Ц.Хүрэлбаатар, Д.Содхүү, ММТ-2015 ЭШХ, 2015, УБ ISBN: 99973-73-23-6 p-123-126
- "H.264 Video Streaming on Embedded Platform Using Wireless Network" Д.Содхүү, Ц.Хүрэлбаатар, Б.Дамдинсүрэн, IBS Scientific Workshop Proceedings, 2015, Germany ISBN: 978-3-95908-023-1 p-3-5
- "Design and Application of Novel Morphological Filter used in Vehicle Detection" Munkhjargal.G, Damdinsuren.B, Galbadrakh.B, Tan-Hsu Tan, Sy-Yen Kuo and Shih-Chia Huang, ICIS2016 international conference, June 26-29, Okayama, Japan
- "Замын хөдөлгөөний дүрс бичлэгээс тээврийн хэрэгсэл илрүүлэхэд шинэ морфологийн шүүрийн ашиглалт болон зарим үр дүн" Б.Дамдинсүрэн, Г.Мөнхжаргал, "Мэдээлэл Холбооны Салбарын Хөгжилд Бидний Гүйцэтгэх Үүрэг 2016" ЭШХ (МХТС), 2016, УБ
- "Замын хөдөлгөөний дүрс бичлэгт сайжруулсан Морфологийн шүүрийн ашиглалт болон зарим үр дүн" Г.Мөнхжаргал, Б.Дамдинсүрэн, ММТ-2016 ЭШХ-ын эмхэтгэл, УБ, 2016. х-72-76
- "An Improved Cross-Coupled NAND Gates PUF for Bank IC Card" Yonghong Bai, Liji Wu and Xiangmin Zhang, Proceedings of the 2nd International Conference on Cryptography, Security and Privacy ICCSP-2018, Mar 16-18,Guiyang, China, ISBN: 978-1-4503-6361-7
- "Hardware Design of Polynomial Multiplication for Byte-Level Ring-LWE Based Cryptosystem" Liji Wu, Xiangmin Zhang, Yanzhao Yin, Altantsooj Batsukh, Bayarpurev Mongolyn, Munkhbaatar Chinbat, International Conference on Anticounterfeiting, Security, and Identification IEEE-ASID 2020, Oct 30-Nov 1, Xiamen, China, online proceeding
- "Performance Comparison of Finite Field Multipliers for SM2 Algorithm based on FPGA Implementation" Munkhbaatar Chinbat, Liji Wu, Altantsooj Batsukh, Xiangmin Zhang, Bayarpurev Mongolyn, Ke Xu, Wei Yang, International Conference on Anticounterfeiting, Security, and Identification IEEE-ASID 2020, Oct 30-Nov 1, Xiamen, China, online proceeding
- "Квант компьютерын дараах үейин криптографын алгоритмд зориулсан олон гишүүнт үржүүлэгчийг FPGA хавтан дээр хэрэгжүүлэх нь" Wu Liji, ММТ-2022 ЭШХ-ын эмхэтгэл, УБ, 2022. х-72-75
- "Developing An Attack Detection Algorithm Model and Compared with The K-Means Algorithm" Dashdorj. Ya, Liji Wu and Heemin Park, ICEF 2023, Kazakhstan, 2023.