

Assoc. Prof. Sarangerel Dorjgochoo

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Summary of Experience

Have 10 years of academic experience and 20 years of teaching/research experience.

Experience Details

1. Associate Professor, Senior Lecturer, Department of Information Technology, **School of Information and Communication Technology, Mongolian University of Science and Technology**, Ulaanbaatar, Mongolia - from July 2014 to till date.
2. Deputy Director, Senior Lecturer, Department of Information Systems, **Computer Science & Management School, Mongolian University of Science and Technology**, Ulaanbaatar, Mongolia - from September 2008 to July 2014.
3. Senior Lecturer, Department of Electronic Systems, **Power Engineering School, Mongolian University of Science and Technology**, Ulaanbaatar, Mongolia - from July 1998 to August 2008.
4. Lecturer, **Advanced Technology School, Mongolian University of Science and Technology**, Ulaanbaatar, Mongolia - from September 1997 to July 1998.

Academic Qualification

- 2004 – 2013: **Ph.D., Computer Science & Management School**, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia.
- 1996 – 1997 : **M.S., Computer Science & Management School**, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia.
- 1991 – 1996 : **B.S., Computer Science & Management School**, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia.

Research Area

Thesis Title : IT methodology in Healthcare: Data mining and Cloud Computing
(In case of Mongolia)

Research Interest : Data mining, Health Information System, Artificial Intelligence

Awards & Honors

- Associate Professor from Mongolian University of Science and Technology, 2019
- "Best employee of Science" medal with certificate from The Ministry of Education, Culture, Sciences and Sports of Mongolia, 2018
- "Best employee of ICT sector" medal with certificate from The Information Technology and Telecommunications Authority - Mongolian Government Regulatory Authority, 2016
- Certificate of merit from The Ministry of Education and Science of Mongolia, 2014
- Certificate of merit from The Federation of Mongolian Teachers, 2012

Publications

Journal Papers

1. Uuganbayar A., **Sarangerel D.**, "Blockchain based Smart Contract for Purchase Agreement" Journal of University of Finance and Economics, Mongolia, Vol. No.2 60-69, 2021
2. **Sarangerel D.**, Bayarkhuu.O, "Data mining methods for prediction of air pollution in Ulaanbaatar", "Scientific Transactions, School of Information & Communication Technology, MUST", Vol. No. 11/271, pp. 76-79, 2020
3. Nomin-Erdene A., **Sarangerel D.**, "Heart disease prediction using data mining", "Scientific Transactions, School of Information & Communication Technology, MUST", Vol. No. 14/241, pp. 41-47, 2019
4. Purevsuren L., **Sarangerel D.**, Zorig.G., "Development of an e-Prescribing system", "Scientific Transactions, School of Information & Communication Technology, MUST", Vol. No. 14/24, pp. 183-189, 2018
5. **Sarangerel D.**, Sarangerel Ts, Zolboo T., "The study of forecasting for building energy of Power Station using data mining", "Journal of Mongolian University of Science and Technology (JMUST)", Vol. No. 7/234, pp. 84-88, 2018
6. **Sarangerel Dorjgochoo**, Munkhnasan Choinzon, "The study of the loan ability of bank customer using data mining", "Journal of Mongolian University of Science and Technology (JMUST)", Vol. No. 4/187, June, No., pp. 98-104, 2016
7. Munkhnasan Choinzon, **Sarangerel Dorjgochoo**, "Writing a Research paper", "Journal of Mongolian Academy of Sciences – Informatics Institute", Vol. No. 42, June, No., pp. 106-112, 2016
8. Erkhesh Batbold, **Sarangerel Dorjgochoo**, "The Research of Data Mining in Mongolian Healthcare", "Journal of Mongolian University of Science and Technology (JMUST)", Vol. No. 1/163, March, No., pp. 224-236, 2015
9. Erkhesh Batbold, **Sarangerel Dorjgochoo**, "The Research on patients with diabetes using classification and cluster analysis", "Scientific Transactions, School of Information & Communication Technology, MUST", Vol. No. 7/170, March, No., pp. 131-135, 2015
10. Tsevegjav Onormaa, **Sarangerel Dorjgochoo**, Tumengerel Purevjav, "Coordinating power dispatch and tariff policy", "Power & Engineering", Vol. No. 127, September, No., pp. 26-32, 2014
11. Hwan-Jeu Yu, Kuo-Hsin Chen, Hsien-Cheng Chou, Jin-Ming Wu, **Sarangerel Dorjgochoo**, Adilsaikhan Mendjargal, Erdenebaatar Altangerel, Chih-Wen Hsueh, and Feipei Lai, "A Sharable Cloud-Based Pancreaticoduodenectomy Collaborative Database for Physicians: Emphasis on Security and Clinical Rule Supporting," Computer Methods and Programs in Biomedicine, Vol. 111, No. 2, pp. 488-497, Aug. 2013, DOI: 10.1016/j.cmpb.2013.04.019
12. Hwan-Jeu Yu, Chia-Ping Shen, **Sarangerel Dorjgochoo**, Chi-Huang Chen, Jin-Ming Wu, Mei-Shu Lai, Ching-Ting Tan, Chinburen Jigjidsuren, Erdenebaatar Altangerel, Hung-Chang Lee, Chih-Wen Hsueh, Yufang Chung, and Feipei Lai, "A physician order category-based clinical guideline comparison system," Journal of Medical Systems, Dec. 2012;36(6):3741-53. DOI 10.1007/s10916-012-9847-x.
13. Chia-Ping Shen, Chinburen Jigjidsuren, **Sarangerel Dorjgochoo**, Chi-Huang Chen, Wei-Hsin Chen, Chih-Kuo Hsu, Jin-Ming Wu, Chih-Wen Hsueh, Mei-Shu Lai, Ching-Ting Tan, Erdenebaatar Altangerel, and Feipei Lai, "A Data-mining Framework for Transnational Healthcare System," Journal of Medical Systems, August 2012, Volume 36, Issue 4, pp. 2565-2575.
14. **Sarangerel Dorjgochoo**, Erdenebaatar Altangerel "Development of clinical guideline using clustering", Scientific Transactions, Computer Science & Management School, MUST", Vol. No. 4/127, May, No., pp. 93-98, 2012
15. Hung-Ming Chen, Po-Hung Chen, **Sarangerel Dorjgochoo**, Tai-Jee Pan, and Feipei Lai, "Configurable platform-based power management schemes on the embedded tablet system- WSEAS Trans. on Circuit and Systems" WSEAS Trans. on Circuit and Systems. , NATTWN, Vol.Issue 4, Vol. 6, No., 432-439, April, 2007
16. Hung-Ming Chen, Po-Hung Chen, **Sarangerel Dorjgochoo**, Tai-Jee Pan, Feipei Lai, "A Hard-Disk based portable entertainment device for managing contents on the go- WSEAS Trans. on Computers" WSEAS Trans. on Computers. , NATTWN, Vol.Issue 11, Vol. 6, No., November, No., 1125-1133, 2007
17. Dashdorj Janchiv, **Sarangerel Dorjgochoo**, "The study of neural network and its algorithms", "Scientific Transactions, Power Engineering School, MUST", March, No., pp. 64-69, 2000

Conference Papers

1. Zolboo Tumurbold, **Sarangerel Dorjgochoo**, "A Smart Phone Application Program For Mobile User Localization using Wifi fingerprints", Mongolian Information Technology MIT-2017 Conference, 3, May 2017, Ulaanbaatar, Mongolia.

2. **Sarangerel Dorjgochoo**, Munkhnasan Choinzon, "The study of HL7 Health Information-Exchanging Standard", "Mongolian Information Technology MIT-2016 Big data & Nature", 6 May 2016, Ulaanbaatar, Mongolia, pp.29-32.
3. **Sarangerel Dorjgochoo**, Zolboo Tumurbold, "Development of Microblogging System in Traditional Mongolian Script", "IEEE IFOST 2014 The 9th International Forum on Strategic Technology", 21-23 October 2014, Cox's Bazar, Bangladesh, pp.18-21.
4. **Sarangerel Dorjgochoo**, Zolboo Tumurbold "Mining Electronic Health Records based on Association Rules", "The International Conference on Industrial Convergence Technology – 2014: The Fifth Conference of MUSTAK", 10-11 May 2014, Soon Chun Hyang University, Asan, Korea, pp.56-58.
5. Zolboo Tumurbold, **Sarangerel Dorjgochoo**, "Social Networking in Traditional Mongolian Script", "Mongolian Information Technology MIT-2014 Embedded Systems and its applications", 8 May 2014, Ulaanbaatar, Mongolia, pp.74-77.
6. Mu-Hsing Kuo, Andre Kushniruk, Elizabeth Borycki, Feipei Lai, **Sarangerel Dorjgochoo**, Erdenebaatar Altangerel and Chinburen Jigjidsuren, "A Cloud Computing Based Platform for Sharing Healthcare Research Information," IEEE&ACM The 2012 International Conference on Collaboration Technologies and Systems, May 21-25, Denver, Colorado, USA. pp.504-508.
7. **Sarangerel Dorjgochoo**, Zolboo Tumurbold, Erdenebaatar Altangerel "Data Mining and Artificial Intelligence Applications in Higher Education", International conference- EICTHE 2011 Emerging ICT in Higher Education", July 8-10, Ulaanbaatar, Mongolia, pp.143-146.
8. **Sarangerel Dorjgochoo**, Dashdorj Janchiv, Erdenebaatar Altangerel "Data mining some issues", "Power Industry and Ecology", 26-30 May 2010, Ulaanbaatar, Mongolia, pp.102-105.
9. Tarasov V. I., Dari Sodnomdorj, Tsevejjav Onormaa, Banzragch Torbat, **Dorjgochoo Sarangerel** "The aspects of steady state calculation, operating conditions of Electric Power System, transmission and distribution networks" (Minimum summer load flow), "IEEE IFOST 2008 The 3rd International Forum on Strategic Technology", June 23-29, Novosibirsk-Tomsk, Russia, pp.552-555.
10. Xiao-Ou Ping, Li-Fan Ko, Rung-Ji Shang, Feipei Lai, Chi-Huang Chen, Kuo-Hsuan Hwang, and **Sarangerel Dorjgochoo**, "Dynamic Messages Creation Method for HL7 based Healthcare Information System,"IEEE HealthCom 2007, Taipei, Taiwan, June 19-22, pp.150-155.

Books

1. Ganbat.Ts, **Sarangerel.D** Foundations of Information Retrieval, MUST Press, 2019, ISBN 978-99978-68-71-8.
2. Ganbat.Ts, **Sarangerel.D** Human Computer Interaction, MUST Press, 2018, ISBN 978-99929-64-15-4.
3. Erdenebaatar.A, Ganbat.Ts, **Sarangerel.D** et al. English-Mongolian Dictionary of Software Technology, Ulaanbaatar, 2012

Copyrights

1. **Sarangerel Dorjgochoo**, Zolboo Tumurbold, "A Learning Management System" Computer program, Mongolian Copyright Certificate No. 11150, 2019/12/03.
2. **Sarangerel Dorjgochoo**, Zolboo Tumurbold, "A Microblogging System in Traditional Mongolian Script" Computer program, Mongolian Copyright Certificate No. 8562, 2017/05/02.
3. **Sarangerel Dorjgochoo**, Zolboo Tumurbold, "An e-Office system" Computer program, Mongolian Copyright Certificate No. 8563, 2017/05/02.