

WASINEE NOONPAKDEE, D.Sc.

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Research Interest: Business Intelligence, Data Analysis, Knowledge Management, Information System Management, Computer Network, Optical Wireless Communication

EDUCATION

Waseda University, Tokyo, Japan

Doctor of Science in Global Information and Telecommunication Studies

- Dissertation: Studies on Indoor Optical Wireless Communications for Secure Data Transmission: proposed the schemes to improve security in physical layer for indoor applications and RFID systems.

Carnegie Mellon University, PA, USA

Master of Information Systems Management

- Information System Project: An Interactive Data System for International Decision Making & Coordination: developed, designed, and implemented the database management system (DBMS) and user interface to be employed with in Carnegie Mellon University.

Chulalongkorn University, Thailand

Bachelor of Engineering in Electrical Engineering (Telecommunications)

EXPERIENCE

College of Innovation, Thammasat University

Lecturer

- Teach Cybersecurity, Research Methodology, Quantitative Analysis, Data Analysis, Business Intelligence, Information System Management, Human Resource Management, and Technology Foresight and Road mapping.

Mahidol University International College

Part-time Lecturer

- Taught Computer Network, and Data Mining and Business Intelligence.

Graduate School of GITS, Waseda University

Researcher

- Analyzed the secured transmission for indoor optical wireless communications and their applications.

Department of Corrections, Ministry of Justice

Computer Science Officer

- Implemented a computerized management system for storing and updating offender records, using database management system (DBMS) and web application, through Virtual Private Digital Network (VPDN), and Asymmetrical Digital Subscriber Line (ADSL).
- Responsible for “e-Visiting Project” and “Video Conference Project” using video conference system via Integrated Services Digital Network (ISDN).
- Developed and implemented IT strategy plan and policy.

Faculty of Information Technology, Dhurakij Pundit University

Invited Lecturer

- Taught Computer System Management for undergraduate students.

TRUE Corporation

Senior Engineer/Area Team Leader

- Supervised 20+ subordinates in Area Operation Division focused in operation and maintenance of the telephone and data access network.
- Provided services and maintenance for fixed-line telephone network, switching & transmission system and accommodation system of the telephone exchange as well as other value-added services.
- Provided digital data communication services such as Leased lines, Integrated Services Digital Network (ISDN), x-Digital Subscriber Line (xDSL).

HONORS

- Japanese Government Scholarship (Monbukagakusho Scholarship)
- Japan International Cooperation Agency (JICA) Scholarship
- Royal Thai Government Scholarship
- Excellent Academic Student, Chulalongkorn University

PUBLICATIONS /CONFERENCES

- W. Noonpakdee, T. Khunkornsiri, and A. Phothichai, "Manufacturing information system using RFID technology," in 2018 5th International Conference on Business and Industrial Research (ICBIR), 2018, pp. 419-424.
- W. Noonpakdee, T. Khunkornsiri, A. Phothichai, and K. Danaisawat, "A framework for analyzing and developing dashboard templates for small and medium enterprises," in 2018 5th International Conference on Industrial Engineering and Applications (ICIEA), 2018, pp. 479-483.
- W. Noonpakdee, A. Phothichai, and T. Khunkornsiri, "Big data implementation for small and medium enterprises," in 2018 27th Wireless and Optical Communication Conference (WOCC), 2018, pp. 1-5.
- W. Noonpakdee, Acharaphun Phothichai, and Thitiporn Khunkornsiri, "The Readiness for Moving toward Digital Thailand — A Case Study", International Journal of Information and Education Technology Vol.8(4), 2018
- W. Noonpakdee, Manit Satitsamitpong, Acharaphun Phothichai, and Thitiporn Khunkornsiri, "Barriers to the Adoption of Data Analysis tools", International Conference on Applied Statistics (ICAS), July 2017, pp. 223-228.
- W. Noonpakdee, A. Phothichai, T. Khunkornsiri, A. Nuntree, "CIO Competency for Government Sectors in Digital Economy", XI International Conference on Applied Business Research ICABR, Pattaya, Sep, 2016.
- W. Noonpakdee, J. Sunkpho, J. Tubtimhin, T. Kijkanjanarat, and N. Wisitpongphan, The Analysis of Data Management, a Case Study of a Government Information System in Thailand, Journal of Telecommunication, Electronic and Computer Engineering, 8(2) : 173 – 176, 2016.
- W. Noonpakdee, "Hybrid Passive–Active Optical Wireless Transmission for Health Monitoring System", Wireless Personal Communications, Volume 86, Issue 4, pp 1899-1911, 2016.
- W. Noonpakdee and A. Phothichai, "Designing Knowledge Management System in a Social Enterprise", Joint international conference of MakeLearn (Management, Knowledge and Learning) and TIIM (Technology, Innovation and Industrial Management), Italy, May 2015.
- W. Noonpakdee, "Performance analysis of passive — Active optical wireless transmission for personal health monitoring", International Conf on Ubiquitous and Future Networks (ICUFN), pp.17-21, July 2014.
- W. Noonpakdee, "Indoor optical wireless communications employing corner cube retroreflector for health monitoring system", International Conference on Ubiquitous and Future Networks (ICUFN), Vietnam, July 2013.

- W. Noonpakdee, “Adaptive Wireless Optical Transmission Scheme for Health Monitoring System”, IEEE Third International Conference on Consumer Electronics, Berlin, Sep 2013.
- K. Khourn, J. Liu, W. Noonpakdee, and S. Shimamoto, “Performance Evaluation of Optical Wireless Identification Scheme employing Thinfilm Corner Cube Retroreflector”, IEEE 24th International Symposium on Personal, Indoor and Mobile Radio Communications, London, Sep. 2013.
- J. Liu, Z. Pan, W. Noonpakdee, and S. Shimamoto, “Impact of Light Reflection on Indoor Wireless Optical CDMA Systems”, Journal of Optical Communications and Networking (JOCN), Vol. 4, Issue 12, pp. 989-996, 2012
- W. Noonpakdee, J. Liu, and S. Shimamoto, "Position-based diversity transmission scheme employing optical wireless communication," Consumer Electronics, IEEE Transactions on, vol. 57, pp. 1071-1078, Aug. 2011.
- W. Noonpakdee, J. Liu, and S. Shimamoto, "Hybrid RFID - OWC with an Adaptive Priority Transmission Scheme," International Journal of Computer Networks & Communications (IJCNC), vol. 3, pp. 135-147, Sep. 2011.
- J. Liu, W. Noonpakdee, and S. Shimamoto, “Design and Performance Evaluation of OFDM-Based Wireless Services Employing Radio over Optical Wireless Link,” International Journal of Wireless & Mobile Networks (IJWMN), vol.3, pp. 171-183, Oct. 2011.
- X. Sun, W. Noonpakdee, and S. SHIMAMOTO, "A Proposal using Optical Wireless Communication and CDMA for ITS Applications," in IEICE Society Conference (BS-6), Sep., 2011.
- J. Liu, W. Noonpakdee, H. Takano, and S. Shimamoto, “Foundational Analysis of Spatial Optical Wireless Communication utilizing Image Sensor,” IEEE Conf. on Imaging Systems and Techniques, Malaysia, May 2011.
- J. Liu, W. Noonpakdee, H. Takano, and S. Shimamoto, “A novel RF signal beamforming scheme over Optical Wireless Communications,” IEEE Conf. on Space Optical Systems and Applications, pp. 346 - 350, California, May 2011.
- J. Liu, W. Noonpakdee, H. Takano, and S. Shimamoto, “Evaluation of reflected light effect for indoor wireless optical CDMA system,” IEEE Conf. On Wireless Communications and Networking, pp. 1688 - 1693, Mexico, March 2011.
- W. Noonpakdee, J. Liu, and S. Shimamoto, “Position based access scheme for indoor optical wireless communication systems,” IEEE Conf. on Consumer Communications and Networking, Las Vegas, Jan. 2011.
- J. Liu, W. Noonpakdee, H. Takano, and S. Shimamoto, “RF Subcarrier beamforming scheme over IM/DD optical system," GITS/GITI Research Bulletin, pp. 36-43, 2010-2011.
- W. Noonpakdee, J. Liu, , Kim Dong Hyun, and S. Shimamoto , “Hybrid RFID employing optical wireless communication,” IEEE Conf. on Wireless Information Technology and Systems, Hawaii, pp. 1-4, Sep. 2010.
- J. Liu, W. Noonpakdee, H. Takano, and S. Shimamoto, “A cross layer design for optical relay system employing RF subcarrier beamforming,” IEEE Conf. on Wireless Information Technology and Systems, Hawaii, pp. 1-4, Sep. 2010.

OTHER QUALIFICATIONS

Languages: Thai (native), English (fluent), Japanese (fair)

Book: co-author of Matlab Application Book (in Thai), Chulalongkorn university publishing, 2012

Programming: R, Java, C, Pascal, Visual Basic, Matlab, HTML, PHP, ASP, SQL, LATEX, MS Office, Linux