

YOSHITO KANAMORI

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EDUCATION

University of Alabama in Huntsville

Ph. D. in Computer Engineering 2006

[Dissertation: "Quantum Encryption and Authentication Protocols"]

M.S.E. in Computer Engineering 2002

[Thesis: "Reliability and Security for Wireless Body Area Network of Intelligent Sensors"]

PROFESSIONAL CERTIFICATIONS

Certified Information Systems Security Professional (CISSP), #439810, (ISC)² 2019-2025

Palo Alto Networks Authorized Cybersecurity Academy Instructor, # 01112020-001 2020
(Domain: Cybersecurity Infrastructure Configuration)

Georgia Institute of Technology

edX MicroMasters Certificate in Analytics 2020

- ISYE6501: Introduction to Analytics Modeling
- MGT6203: Data Analytics in Business
- CSE6040: Computing for Data Analytics

Also, completed

- ISYE6669 Deterministic Optimization
- ISYE6740 Computational Data Analysis

INTELLECTUAL CONTRIBUTIONS

Refereed Journal Articles:

1. Y. Kanamori and S. Yoo, "Quantum Computing: Principles and Applications," *Journal of International Technology and Information Management*, Vol. 29, Issue 2, 2020
2. M. Y. Yen, D. Drinka, and Y. Kanamori, "Exploring and Evaluating E-Business Models: A Community-based Website Study", *Communications of the International Information Management Association*, Vol13 Issue 3, 2013
3. Y. Kanamori, S.M. Yoo, D.A. Gregory, and F. Sheldon, "Authentication Protocols using Quantum Superposition States," *International Journal of Network Security*, Vol.9, No.2, PP.101-108, Sept. 2009
4. Y. Kanamori and S.M. Yoo, "Quantum Three-Pass Protocol: Key Distribution using Quantum Superposition States," *International Journal of Network Security & Its Applications (IJNSA)*, Vol 1, No 2, pp. 64-70, July 2009
5. Y. Kanamori, S.M. Yoo, W.D. Pan, and F. Sheldon, "A Short Survey on Quantum Computers," *International Journal of Computers and Applications*, Vol.28, No. 3, 2006, pp.227-233

Refereed Book Chapters:

1. Y. Kanamori, and M.Y. Yen, "Cloud Computing Security and Risk Management," 'Cloud Computing Service and Deployment Model : Layers and Management' edited by A. K. Aggarwal and Al Bento, IGI Global, October, 2012

Refereed Conference Proceedings:

1. Y. Kanamori, "Stochastic Computing on Quantum Gates," *The 3rd International Workshop on Post-Moore Era Supercomputing (PMES) in SC18*, Dallas, TX, Nov. 2018
2. Y. Kanamori, Y.M. Yen, and, S. Nowers, "Mapping the News with OpenBlock: A Study of Trust Building on A Community-based News Site," *Proceedings of the 41st Western Decision Sciences Institute (WDSI) Annual Conference at Big Island, Hawaii on April, 2012*, pp.648-649

3. S. Nowers, Y.M. Yen, and Y. Kanamori, "Mapping the News with OpenBlock – Presenting Local News Geographically," *International Conference of Decision Science Institute 2011 (IDSi2011)*, Jul. 14, Taipei, Taiwan, IDSi 2011-140
4. Y. Kanamori, B. Hoanca, and S.M. Yoo, "Three-party Quantum Authenticated Key Distribution with Partially Trusted Third Party," *IEEE GlobeCom 2008*, New Orleans, LA, Nov. 2008
5. Y. Kanamori, S.M. Yoo, and F. Sheldon "Bank Transfer over Quantum Channel with Digital Checks," *IEEE GlobeCom 2006*, San Francisco, CA, Nov. 2006
6. Y. Kanamori, S.M. Yoo, D.A. Gregory, and F. Sheldon, "On Quantum Authentication Protocols," *IEEE GlobeCom 2005*, St. Louis, MS, Nov. 2005
7. Y. Kanamori, S.-M. Yoo, and M. Al-Shurman, "A Quantum No-Key Protocol for Secure Communication," *ACM Southeast Conference (ACMSE-05)*, Atlanta, March 2005, 2-92-93
8. M. Al-Shurman, S.-M. Yoo, and Y. Kanamori, "Decreasing Broadcast in Route Discovery Using Vectors," *ACM Southeast Conference (ACMSE-05)*, Atlanta, March 2005, 2-103-104
9. Y. Kanamori, E. Jovanov, and S.-M. Yoo, "Performance Comparison between TEA and Rijndael Encryption Algorithm for Wireless Sensor Networks," *ISCA 15th International Conference on Computer Applications in Industry and Engineering (CAINE)*, San Diego, Nov. 2002, pp. 209-212

Presentations:

1. Y. Kanamori, D. Drinka, and Y.M. Yen, "Participatory Hyper-local News Website", *The 26th International Information Management Association, Inc. (IIMA) annual conferences*, Oct. 2015
2. Y.M. Yen, D. Drinka and Y. Kanamori, "Exploring and Evaluating E-Business Models: A Community-based Website Study", *The 24th International Information Management Association, Inc. (IIMA) annual conferences*, Oct. 2013
3. Y.M. Yen, D. Drinka and, Y. Kanamori, "Mapping Hyperlocal Content on a Community-based Website: A Business model Study," *The 23rd International Information Management Association, Inc. (IIMA) annual conferences*, Oct. 2012

TEACHING EXPERIENCE

Associate Professor of Management Information Systems 2020 – Present
 Department of Management, Marketing, Logistics, and Business Analytics,
 College of Business and Public Policy,
 University of Alaska Anchorage

Associate Professor of Management Information Systems 2013 – 2020
 Department of Information Systems and Decision Sciences,
 College of Business and Public Policy,
 University of Alaska Anchorage

Assistant Professor of Management Information Systems 2006 – 2013
 Department of Computer Information Systems,
 College of Business and Public Policy,
 University of Alaska Anchorage

Taught the following courses:

Data Mining for Business Analytics	Web Development in .Net Environment
Information Security and System Administration	Mobile Application Development
Introduction to Information Systems Security	Object Oriented Programming
Web Application Security	Advanced Contemporary Business App. Development
Wireless Network Security	Contemporary Business Applications Development
Advanced Networks Management	Computer Concepts in Business
Managing Data Communication and Computer Networks	

Graduate Teaching Assistant
Electrical and Computer Engineering Department,
University of Alabama in Huntsville

2001 – 2006

SERVICE (SELECTED)

University:

- *University Technology Council (2012-2013, 2021-2023)*
- *UAA Academic Computing, Distance Learning, Instructional Technology, and eLearning Committee (2018-2021)*
- *CTC CNT Advisory Board member (2015-2021)*
- *UAA Campus Security Project Committee (2019)*
- *UAA Graduate Academic Board Member (2011-2013, 2018-2019)*
- *Cyber Security Club (Student Club) Faculty Advisor (2014-2020)*
- *UAA team Coach for the Collegiate Cyber Defense Competition (2013 - 2020)*
 - *2nd place, At-Large Regional Collegiate Cyber Defense Competition 2020*
 - *1st place, At-Large Regional Collegiate Cyber Defense Competition 2019*
 - *Invited to attend the National Collegiate Cyber Defense Competition, Orland, FL, 2019*
 - *UAA won the 4th place at the National Collegiate Cyber Defense Competition, Orland, FL, 2019*
 - *2nd place, At-Large Regional Collegiate Cyber Defense Competition 2018*
 - *3rd place, At-Large Regional Collegiate Cyber Defense Competition 2017*
 - *1st place, At-Large Regional Collegiate Cyber Defense Competition 2016*
 - *Invited to attend the National Collegiate Cyber Defense Competition, San Antonio, TX, 2016*
 - *2nd place, At-Large Regional Collegiate Cyber Defense Competition 2015*
 - *2nd place, At-Large Regional Collegiate Cyber Defense Competition 2014*

College:

- *Chair, CBPP Innovation and Technology Committee (2012-2013)*
- *Chair, Information System Manager Search Committee (IS Professional 4: PCN301109) (2012)*
- *Chair, CBPP Seminar Committee (2010-2012)*

Department:

- *Co-chair, ISDS faculty Search committee (PCN: 514498 Term Professor of MIS) (2020)*
- *Co-chair, ISDS faculty Search committee (PCN: 514495 Tenure-Track Professor of MIS) (2020)*
- *Networking and Information Security Lab administrator (2007 - 2022)*

Professional Services:

- *Technical Program Committee Member, Communication and Information Systems Security Symposium, IEEE International Conference on Communications (ICC 2009 - 2023).*
- *Reviewer, Information Systems and e-Business Management (Springer Journal) (2010, 2012-2015, 2017-2020)*
- *Reviewer, International Journal of Network Security (2006-2007, 2009, 2011-2014, 2017)*
- *Technical Program Committee Member, Communication and Information System Security Symposium, IEEE Global Telecommunications Conference (GLOBECOM 2009, 2010, 2012, 2013, 2015).*
- *Reviewer, KSII Transaction on Internet and Information Systems, 2010*

SYSTEMS / APPLICATIONS EXPERIENCE (SELECTED)

- Networking and IS Lab Administrator
 - Department maintains the Networking and Information Security Lab to offer computer networking and security courses.
 - Designed and built a LAN (local area network) in the lab and Maintained web, database, DNS, DHCP, NAT servers, and Firewall for the lab.
 - Designed and built LANs with virtual machines on VMware ESXi servers with vCenter server (on one Dell PowerEdge and two HP ProLiant servers.) Those virtual LANs are isolated from CBPP campus network and used for student class projects and hands-on lab activities
- Proficient in an assortment of technologies, including Virtualization software (e.g., VMware vSphere), Linux and Windows Operating Systems, and MS Office.
- Programming languages: Python, R, MATLAB, JAVA, C#/C++/C, JavaScript, PHP, Visual Basic, VBA.

PROFESSIONAL DEVELOPMENT (SELECTED)

- Completed “UAA Technology fellow Program, focusing on online course designs and delivery strategies,” (2020 - 2021)
- Attended “NSA/DHS Knowledge Unit (KU) Mapping and Refinement Workshop”, Bothell, WA, Nov. 28-29, 2016

MEMBERSHIPS

IEEE, IEEE Computer Society, IEEE Communication Society, (ISC)², Beta Gamma Sigma (BGS)

Other

Kendo 4-Dan (All United States Kendo Federation and Pacific Northwest Kendo Federation)