

Curriculum Vitae



Hazinah Kutty Mammi

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Personal Data

Name	:Hazinah Binti Kutty Mammi
Date of Birth	:28 March 1972
Place of Birth	:Kluang, Johor
Nationality	:Malaysian
Name of Current Employer	:Universiti Teknologi Malaysia
Address	:Faculty of Computing, Universiti Teknologi Malaysia, 81310 Skudai, Johor.
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Education

Degree	:PhD
Field	:Computer Science
Year	:Ongoing – part time
Name and Place of Institution	:Universiti Teknologi Malaysia, Skudai, Johor

Degree	:M. Sc
Field	:Computer Science
Year	:1998
Name and Place of Institution	:University of Essex, United Kingdom

Degree	:B. Sc
Field	:Computer Science (Computer System)
Year	:1997
Name and Place of Institution	:Universiti Teknologi Malaysia, Skudai,

Certifications

CCNA (CISCO Certified Network Associate): Professional

CCNA (CISCO Certified Network Associate) – Instructor (CCNA Academy) CCNA1 - 4

Risk Management and ISMS (Information Security Management Systems) – Series 1 & 2 completed

Certified EC-Council Instructor (CEI)

EC Council Certified Ethical Hacker (CEH)

EC Council Certified Hacking and Forensic Investigator (CHFI)

EC Council Certified Network System Administrator (ENSA)

Subjects taught:

Computer Networks, Network Communications, Operating Systems, Computer Forensics, Computer Security, Computer Organization and Architecture, Cryptography.

Publications

Papers:

H.K.Mammi and M.O.Tokhi (2004), Current challenges of telemedicine. ICCCO4 Romania.

H.K.Mammi and M.O.Tokhi (2003), Risk, Assets and Security in View of E-Activities Design and Implementation. International Conference on Internet Computing, IC'03 USA.

Subariah Ibrahim, Muhalim Mohamed Amin, Hazinah Kutty Mammi, Badrisham Ahmad, Muhammad Reza Za'ba (2005), Analysis of Population Size in Genetic Cryptanalysis of Simple Substitution Cipher. Proceedings in International Symposium on Bio-Inspired Computing, Johor Bahru, 5-7 September 2005.

M.Daniel Hafiz Abdullah, Prof. Abdul Hanan Abdullah, Dr. Norafida Ithnin, Hazinah Kutty Mammi (2008). Graphical password: User's affinity of choice — an analysis of picture attributes selection. 2008 International Symposium on Information technology (ITSim2008), KLCC Malaysia, 26-29 August 2008.

M.Daniel Hafiz Abdullah, Prof. Abdul Hanan Abdullah, Dr. Norafida Ithnin, Hazinah Kutty Mammi (2008). Towards Identifying Usability and Security Features of Graphical Password in Knowledge Based Authentication Technique. Second Asia International Conference on Modelling and Simulation (AMS 2008), Kuala Lumpur, Malaysia. 13-15 May 2008

Muhammad Daniel Hafiz Abdullah, Abdul Hanan Abdullah, Norafida Ithnin and Hazinah Kutty Mammi (2008). Usability Features of Graphical Password in Knowledge Based Authentication Technique. The 4th FKSM Postgraduate Annual Research Seminar, Faculty of Computer Science & Information, Systems of Universiti Teknologi Malaysia, pp 422-425.

Lim Kah Seng, Norafida Ithnin, Hazinah Kutty Mammi (2011). Identifying the Re-usability of Triangle Scheme and Intersection Scheme on Mobile Device, Computer and Information Science, Vol. 4, No. 4, July 2011.

Lim Kah Seng, Norafida Ithnin, Hazinah Kutty Mammi (2011). User Affinity of Choice-Features of Mobile Device Graphical Password Scheme Anti-Shoulder Surfing Mechanism, International Journal of Computer Science Issues (IJCSI) Volume 8, Issue 4, July 2011

Hazinah Kutty Mammi, Norafida Ithnin (2012). Competency based Education (CBE) for IT Security: Towards Bridging the Gap (extended), Vol 2, No 4 (2012), International Journal of Engineering Pedagogy.

Lim Kah Seng, Norafida Ithnin and Hazinah Kutty Mammi (2012). An Anti-Shoulder Surfing Mechanism and its Memorability Test, International Journal of Security and Its Applications Vol. 6, No. 4, October, 2012.

Hazinah Kutty Mammi, Norafida Ithnin (2012). Competency based Education (CBE) for IT Security: Towards Bridging the Gap, 2012 IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE), August 2012, Hong Kong.

Anthony Ariffin, Hazinah Kutty Mammi (2013). The Probability and Effectiveness of Securing Instant Messaging Using One Time Pad, THE 5th INTERNATIONAL CONFERENCE ON INTERNET (ICONI2013), December 12-16, 2013 Pattaya Thailand.

Anthony Ariffin, Hazinah Kutty Mammi (2014). Study on the Effectiveness of Securing Instant Messaging Using One Time Pad, Int. J. Advance Soft Compu. Appl, Vol. 6, No. 1, March 2014 ISSN 2074-8523; Copyright © SCRG Publication, 2014 .

Book Chapter:

Norafida Ithnin dan Hazinah Kutty Mammi (2008). Conceptual Features for Enterprise Information Security Policy. Advances in Computer Security, UTM.

Hazinah Kutty Mammi, Peter Ku Soo Lin (2012). Comparative research on Fingerprints Signature and Digital Signature. Issues in Computer Security and Networking.

Lim Kah Seng, Norafida Ithnin, Hazinah Kutty Mammi (2012). Review on Anti-shoulder Surfing Graphical Password Schemes. Issues in Computer Security and Networking.

Research Monograph:

Mohd Ali Nadawi dan Hazinah Kutty Mammi (2008). Kajian Kebolehgunaan Keystroke Dynamic Sebagai Kaedah Alternatif Penentusahan (Authentication)

Textbooks:

Subariah Ibrahim, Hazinah Kutty Mammi, Mazura Mat Din, Norafida Ithnin. Perisian Sistem (Systems Software), McGraw Hill, Kuala Lumpur, 2001.

Mazleena Salleh, Hazinah Kutty Mammi, Norafida Ithnin, Mazura Mat Din. Organisasi Komputer dan Bahasa Himpunan, Edisi Revisi. McGraw Hill. 2000.

Mazleena Salleh, Norafida Ithnin, Hazinah Kutty Mammi, Abd. Bahrim Yusoff and Firoz Yusuf Patel Dawoodi, Logik Digital, 2000.

Teaching Module:

Firoz Yusuf, Hazinah Kutty Mammi, Maheyzah Md. Siraj, Marina Md. Arshad, Mazura Mat Din, Muhalim Mohamed Amin, Rashidah Kadir, Computer Organization and Architecture, First Edition 2014.

Research Interests

Computer Security: Authentication, Risks, Policies, Forensics, Education
Computer Science Education: T&L, Competency, Retention, Analogia

Research Group

Information Assurance and Security Research Group (<http://comp.utm.my/iasrg/>)

Research Grants

Completed:

THE DEVELOPMENT OF CRYPTOGRAPHIC INFRASTRUCTURE USING ARTIFICIAL IMMUNE SYSTEM, SCIENCEFUND Malaysian Gov., 2000-2003, Leader.

SECURE DIGITAL DOCUMENT SIGNING USING BIOMETRIC FEATURES, RUG UTM, 2011-2012, Leader.

DEVELOPMENT OF HUMAN FACTOR THREATS PROBLEM-BASED MODEL FOR HOSPITAL HEALTHCARE SYSTEM, RUG UTM, 2014-2016, Researcher.

SOCIAL IMPACT OF DIGITAL CAMPUS SECURITY INFRASTRUCTURE, RUG UTM, 2014-2016, Researcher

COMPREHENSIVE PRIVACY-PRESERVING DATA MINING MODEL IN DIGITAL CAMPUS, RUG UTM, 2014-2016, Researcher.

RISK ANALYSIS ON CYBER CAMPUS MODULES, UTM, 1995-1998, Researcher.

SECURITY ISSUES IN ELECTRONIC VOTING SYSTEM (EVS), UTM, 1995-1997, Researcher.

A SECURE TRANSACTION FRAMEWORK FOR CLIENT-SERVER BASED E-COMMERCE, Malaysian Gov., 1996-1999, Researcher.

OPTIMIZATION OF COMPUTER LABS USAGE IN SCHOOLS : A CASE STUDY OF SMART -SCHOOL, Malaysian Gov., 1996-1999, Researcher.

DEVELOPMENT OF A GRAPHICAL PASSWORD SCHEME USING HIGH USABILITY AUTHENTICATION TECHNIQUE FOR MULTI TOUCH SCREEN TECHNOLOGY, UTM RUG, 2011-2012, Researcher.

AN ALTERNATIVE FILE SIGNATURE ANALYSIS TECHNIQUE FOR COMPUTER FORENSIC INVESTIGATION, UTM RUG, 2011-2012, Researcher.

ONLINE ANOMALY DETECTION OF THE PRESENCE OF GANODERMA BONINENSE IN PALM OIL PLANTATION USING WIRELESS SENSOR, UTM RUG, 2014-2015, Researcher.

A RELIABLE COMPUTERIZED VOTING MECHANISM - MALAYSIA ELECTION CASE STUDY, UTM RUG, 2014-2015, Researcher.

Active:

EXPLORATORY ON THE SUITABILITY AND EFFICIENCY OF FRIENDSHIP MECHANISM IN MINIMIZING THE IMPACT OF FAKE BROADCAST MESSAGES IN CIVILIANS NETWORKS, UTM RUG, 2015-2016, Researcher.

CROWDFUNDING PLATFORM AS A TOOL TO ENABLE PUBLIC AND INDUSTRY ENGAGEMENT IN ACADEMIA RESEARCH, UTM RUG, 2016-2018, Researcher.

NEW ACCESS CONTROL MECHANISM BASED ON PALM BIOMETRICS AUTHENTICATION FOR USERS
CARDIO INFORMATION, MOHE TRGS, 2016-2019, Researcher.

AN INTELLIGENT DECISION SUPPORT SYSTEM FOR HEART DISEASE DIAGNOSIS, UTM RUG-
Industry, 2016-2018, Researcher.

IBOSS-MAC: INTER-CONNECTED BODY SENSORS FOR TRAFFIC PRIORITY-AWARE AND RELIABLE
MEDIUM ACCESS CONTROL PROTOCOL IN MEDICAL HEALTHCARE NETWORKS, MOHE FRGS, 2016-
2018, Researcher.

A NEW PROFESSION-BASED CASE STUDY BUILDING METHODOLOGY FOR COMPUTER FORENSICS
COURSE IN INSTITUTES OF HIGHER LEARNING, Dana Pembangunan Pengajaran 2016-2018, Leader.

Awards

Bronze – INATEX/UTM (2008) - HyGrips (Graphical Password Authentication)

Silver – Malaysian Technology Expo (2009) - HyGrips (Graphical Password Authentication)

Silver - INATEX/UTM (2011) - MobileSeCURE Graphical Password

Silver - Malaysian Technology Expo (February, 2012) – MobileSecure Graphical Password

Gold – The International Engineering Invention & Innovation Exhibition 2013(i-ENVEX 2013) – Halal
Food Verification System

Bronze – International Conference and Exposition in Inventions by Institutions of Higher Learning

(Pecipta'15) (2015) - Validation of Forwarded Messages on Social Media Applications Through Friends
and Families Networks (MyVeri5).

IPR/Patent

HyGrips (Graphical Password Authentication). PI20092647. RMC UTM

Variable Analysis for Knowledge Creation Theory

Graphical Password - UTM.J.01.12/27.13/1JLD16(92) – hakcipta perisian