UNIVERSITI
KEBANGSAAN
MALAYSIA
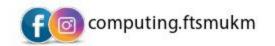
The National University of Malaysia

FAKULTI TEKNOLOGI DAN SAINS MAKLUMAT

Faculty of Information Science and Technology

www.ftsm.ukm.my

CENTER FOR
CYBER
SECURITY

FACULTY OF INFORMATION SCIENCE AND TECHNOLOGY

www.ftsm.ukm.my/cybersecurity

computing.ftsmukm

VISION

A reputable academic and frontier research center for cyber resilience that able to sustain communities and organization from modern cyber threat landscape.

MISSION

To develop cutting-edge models and solutions of cyber resilience through research, education and consultation.

OBJECTIVE

1 To drive strategic intervention on public and enterprise cyber security policies, procedures and best practices.

2 To develop innovations that focusing on the predictive, preventive, detective and responsive controls in cyber security.

3 To produce talents of professional and practitioner in cyber security.

4 To provide advisory service on the fundamental and practice aspects in relation to cyber security landscape.

CYBER is driven by 5 research labs focusing on the different aspects of software technology and management research :

IG
INFORMATION GOVERNANCE

INFORMATION GOVERNANCE RESEARCH LAB

Information governance (IG) is a holistic approach to managing information at organisational level in support of, and comply with regulatory, legal, risk, environmental and operational requirements. It implements policies, procedures, processes, roles, control, standards, metrics, technology and people where appropriate to treat information as a valuable business asset. IG can also be refered to a policy or framework outlining acceptable behaviour for managing, organising and sharing of information.

RESEARCHERS
- Prof. Dr. Zawiyah Mohammad Yusof **(Head)**
- Assoc. Prof. Dr. Mohamad Shanudin Zakaria
- Dr. Umi Asma' Mokhtar
- Dr. Ahmad Tarmizi Abdul Ghani

NETWORK AND COMMUNICATION TECHNOLOGY RESEARCH LAB

We aim to be a leader in networking technology and we welcome students who desire to learn more about Networking, Information Technology and Computer Science. At NCT lab we carry out researches that are related to latest networking technology. Theoretical and practical aspects are blended together to develop novel algorithms, architectures, and data communications methods. Our NCT lab supports recent simulation tools such as MATLAB, OMNET, NS3, OPNET, Qualnet and more. We are actively conducting networking research in Cyber Security, Industry 4.0, Internet of Things, Big Data and Cloud Computing. Our recent projects are Information Centric Networking (ICN), IPv6 over Low-Power Wireless Personal Area Networks (6LowPAN), Light Fidelity (LiFi) and Mobile Application.

Network & Communication Technology

RESEARCHERS
- Assoc. Prof. Dr. Rosilah Hassan **(Head)**
- Dr. Azana Hafizah Mohd Aman

DIGITAL FORENSIC RESEARCH LAB

The word forensic is defined as a process of collecting, analysing and reporting about the data that may subsequently become evidence in the criminal justice system. Thus, digital forensic is about forensics involving the digital devices such as computers, CCTV, mobile phones, cameras and so on. With the proliferation of such equipment, the evidence is increasingly likely to be generated through such media. For example, in cases of paedophilia, incriminating evidence is often found on computers, laptops or mobile phones. With such examples, the needs for the research in digital forensics are required to help and ease the task of the law enforcement in handling, analysing and presenting the digital evidence for the criminal investigation.

Digital Forensics Laboratory is responsible to overcome the problem in digital forensics area by involving with the latest research focusing on the digital forensic readiness, enhancing the current framework, developing forensics tools and towards big data and analytics of digital data.

RESEARCHERS
- Assoc. Prof. Dr. Siti Norul Huda Sheikh Abdullah (**Head**)
- Dr. Khairul Akram Zainol Ariffin
- Dr. Kok Ven Jyn

CYBER INTELLIGENCE RESEARCH LAB

The Cyber Intelligence (CyberIntell) lab at the Faculty of Information Science and Technology, Universiti Kebangsaan Malaysia focuses on the fundamental and applied research in intelligence informatics, social media analytics, cybersecurity and, modelling and simulation.

The CyberIntell Lab has the capabilities of modelling humans in cybersecurity, social-media-based cyber-situational understanding, and intelligent information gathering and analysis. We are also interested to apply Artificial Intelligence, Machine Learning, and Natural Language Processing into new products to make the cyberspace more secure.

RESEARCHERS
- Assoc. Prof. Dr. Masnizah Mohd (**Head**)
- Dr. Mohd Rosmadi Mokhtar
- Dr. Wan Fariza Paizi @ Fauzi
- Mr. Mohd Zamri Murah

COMPUTER SECURITY AND SOFTWARE VERIFICATION RESEARCH LAB

Computer security can be defined in many ways. Some relates it with cyber security, others with information security. In this lab, our focus is on the defence technology and science for digital space. The security model that underpinned our work is the CIA triad, Confidentiality, Integrity and Availability.

RESEARCHERS
- Prof. Dr. Zarina Shukur (**Head**)
- Assoc. Prof. Dr. Ravie Chandren Muniyandi
- Dr. Khairul Azmi Abu Bakar
- Dr. Rossilawati Sulaiman
- Dr. Zulkarnain Md. Ali

Networking

Assoc. Prof. Dr. Siti Norul Huda Sheikh Abdullah

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