KICT NEWSLETTER

Issues No.8/2024 **August 2024**

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Motivational Quote

The Prophet Muhammad (peace be upon him) said: "The best of friends is the one who guides you to the truth and supports you in times of need."

(At-Tirmidhi)

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Navigating Security and Privacy Through the Eyes of Developers and Consumers (Part 1)

Security and privacy are terms that are commonly used in today's digital world. Do we understand these two concepts? Can we use the terms interchangeably? Which one should be our concern as consumers and developers?

In this first part of the series, let us delve into the basics: definitions and purposes of security and privacy.

Definition

Security refers to the protection of information systems from theft, damage, disruption, or unauthorised access. It involves implementing measures to guard data and systems against a wide range of threats, ensuring the integrity, confidentiality, and availability of information.

On the other hand, privacy refers to the right of individuals to control their personal information and how it is collected, used, and shared. It involves the protection of personal data and ensuring that individuals have control over their own information.

Purpose

The primary purpose of security is to protect data and systems from malicious attacks, unauthorised access, and other threats. This includes protecting information from being stolen (confidentiality), ensuring that data remains unaltered and accurate (integrity), and ensuring that systems and data are accessible to authorised users when needed (availability). Other security goals include non-repudiation, authentication, authorisation and accountability.

The primary purpose of privacy, on the other hand, is to protect individuals' personal information from being misused or disclosed without their consent. This includes ensuring that personal data is collected for specific and legitimate purposes (purpose limitation and transparency), minimising the amount of data collected (minimisation), and providing individuals with rights over their own information (consent), such as the right to access, correct/update/rectify, and delete their data, and data portability. Among the measures to implement privacy include anonymity/pseudonymity. This method can unlink the data/information to the person.

Use case scenario

Let us look at these examples.

How would you feel if someone knew your shopping habits? When you buy a product at your favourite retail store, where you are a loyalty club member, your data is stored by the retail store. How much information do you share with the retail store? Why do you need to share this information?

How would you feel if someone knew your private/personal chatting messages? When you use a messaging app to chat with a close friend to tell them about your bad encounter of the day. How is this personal information being kept confidential?

Think about these scenarios from two different perspectives: you as the consumer, and you as the developer of the retail store's system and the messaging app.

Conclusion

Security and privacy are distinct concepts, although they are closely related and often discussed together. Understanding the differences and interdependencies between them is crucial for both consumers and developers.

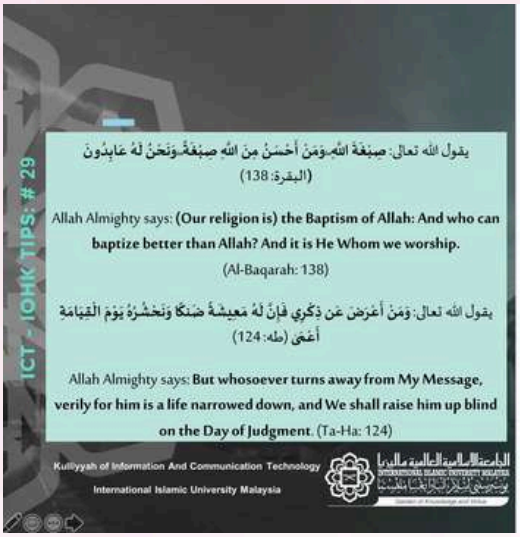
ISLAMISATION TIPS

WEEKLY IOHK TIPS

ENJOINING GOOD AND FORBIDDING EVIL

The role of the lecturer during the teaching of the material is to:

- ❑ Promote virtue and prevent vice in the educational environment.
- ❑ Offer continuous advice to learners, especially related to the subject matter.
- ❑ Foster ongoing reform (Islah) of the individual and society.
- ❑ Encourage good behavior of learners inside and outside the classes.



WEEKLY IOHK TIPS

PROMOTING ISLAMIC CULTURE

The role of the lecturer during the teaching of the material is to:

- ❑ Disseminate Islamic culture through both direct and indirect methods.
- ❑ Present material using examples that emphasize Islamic history, civilization, and teachings to illustrate key points.
- ❑ Provide relevant references and cases related to Islamic culture whenever appropriate.

WEEKLY IOHK TIPS

ISLAMIC ETHICS IN ACADEMIA

The role of the lecturer during the teaching of the material is to:

- ❑ Highlight Islamic ethics relevant to the academic subject, such as honesty, justice, generosity, pride, and modesty.
- ❑ Emphasize the potential harm to science and knowledge when ethical considerations are neglected.
- ❑ Demonstrate the importance of Islamic values in the development of science.

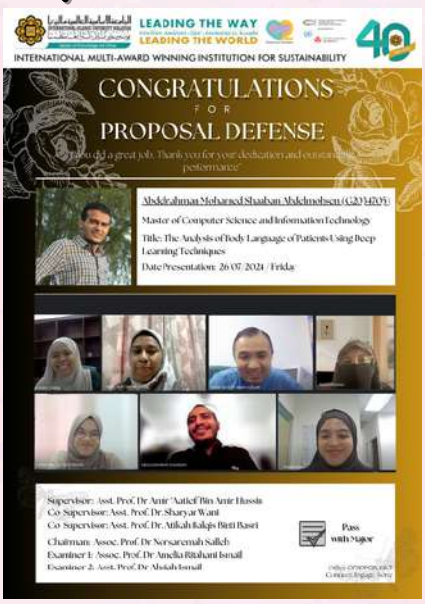
WEEKLY IOHK TIPS

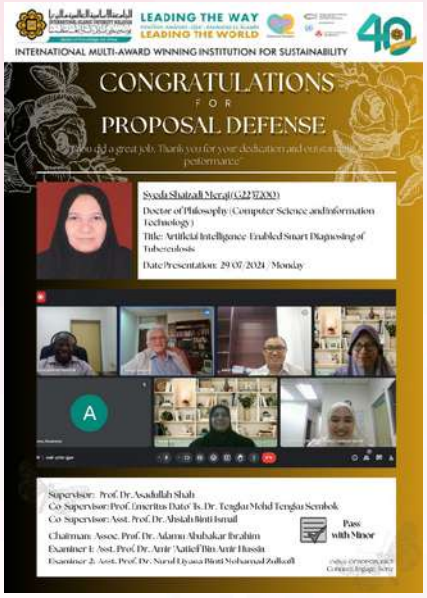
EDUCATING WITH MERCY

The role of the lecturer during the teaching of the material is to:

- ❑ Show kindness to students.
- ❑ Demonstrate mercy and compassion towards students.
- ❑ Simplify the educational process to make learning easier for students.
- ❑ Treat students with respect.
- ❑ Provide support to students academically and socially.

Congratulations FOR COMPLETING VIVA VOCE/PROPOSAL DEFENSE





Congratulations

IOTEAMS -

WINNING SILVER MEDAL FROM INTERNATIONAL INNOVATION, INVENTION, AND CREATIVE EXHIBITION (IIICE) , UNIVERSITI TUN HUSSEIN ONN MALAYSIA (UTHM)

ACHIEVEMENT AND RECOGNITIONS

IIUM TAKRIM 2024

ACTIVITY

UTM
Universiti Teknologi Malaysia
Fakulti Kecerdasan Buatan
AI INSIGHTS SERIES
SIRI KULIAH PROFESOR ADJUNG FAI :
"PHILOSOPHY OF ARTIFICIAL INTELLIGENCE AND MADANI"
22 Julai 2024 | Isnin
9.00 pagi - 10.30 pagi
Dewan Banquet, Menara Razak, UTM Kuala Lumpur
PROF. DATO' DR. MOHAMAD FAUZAN BIN NOORDIN
Profesor Adjung FAI
QS STARS RATING SYSTEM
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Menginovasi Penyelesaian
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SCHOOL OF COMPUTER SCIENCE
NUSA PUTRA UNIVERSITY
IEEE Computational Intelligence Society
INDONESIA CHAPTER
Kampus Merdeka
INDONESIA JAYA
AQAS
WEBINAR-4 SERIES 2024
Strengthening the Security of Interconnected Information in the Cyber World
PROF. DR. TEDDY MANTORO
DR. PRATAMA PERSADHA
CHAIRMAN OF CISSREC
DR. NURUL NUHA ABDUL MOLOK
DR. ENG. HANDRI SANTOSO
Saturday
27 July, 2024
Time
07:30 - 10:30 PM
+62851 5664 4717 - Gilang
AGENDA
• Addressing the Rising Threat of State and Non-State Cyber Attacks
• Protecting the confidentiality, integrity & availability of organizational information
• Optimizing Industrial Control Systems with AIoT
ZOOM ID : 84484515264
ZOOM PASS : NUSAPUTRA
https://bit.ly/Webinar-4Series2024
https://bit.ly/REGISTRASIWebinarSeries-4
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LEADING THE WAY
LEADING THE WORLD
INTERNATIONAL MULTI-AWARD WINNING INSTITUTION FOR SUSTAINABILITY
40
KICT
DIS Seminar
CRAFTING INNOVATIVE TEACHING: LEVERAGING GENERATIVE AI
Speaker: Assoc. Prof. Ts. Dr. Izwan Nizal Mohd Shaharanee
Director of the University Teaching and Learning Centre (UTLC), UUM
Thursday, 8th August 2024
2:30 pm - 3:30 pm
zoom
CTD POINT WILL BE GIVEN

PUBLICATION

(SUBMISSION IN IREP FOR JULY 2024)

1. Annas, Ammar Haziq and Zainuddin, Ahmad Anwar and Ramlee, Afnan Wajdi and Ya Omar, Ahmad Solihin and Md Saifuddin, Muhammad Hafiz Faruqi and Sidik, Nur Fatnin Izzati and Sapuan, Muhamad Syariff and Amerolazuam, Amysha Qistina and Hairul Nizam, Muhammad Haziq Zulhazmi and Mazlan, Farah and Omar, Nur Faizah and Abdul Rahman, Nur Alia Alina and Rosdi, Nur Nisa Humairah and Ahmadzamani, Nur Zafirah Adira (2024) *Analyses of 6G-network and Blockchain-network application security: future research prospect*. International Journal on Perceptive and Cognitive Computing (IJPCC), 10 (2). pp. 31-50. E-ISSN 2462-229X
2. Faza Amal, Sophian and Abu Saiid, Ismail and Mansor, Hafizah (2024) *An empirical study for the dynamic and personalised learning experience of the AI course generator.* International Journal on Perceptive and Cognitive Computing (IJPCC), 10 (2). pp. 23-30. E-ISSN 2462-229X
3. Gumaida, Bassam and Abubakar, Adamu (2024) *A Novel Polytope Algorithm based on Nelder-mead method for localization in wireless sensor network*. International Journal of Sensors, Wireless Communications and Control, 14 (1). pp. 21-35. ISSN 2210-3279 E-ISSN 2210-3287
4. Gumaida, Bassam and Ibrahim, Adamu Abubakar (2024) *IWDSA: a hybrid Intelligent Water Drops with a Simulated Annealing for the localization improvement in wireless sensor networks*. International Journal of Applied Information Technology, 8 (1). pp. 14-42. E-ISSN 2581-1223
5. Khan, Fazeel Ahmed and Abubakar, Adamu (2024) *Machine learning-based enhanced deep packet inspection for IP packet priority classification with differentiated services code point for advance network management*. Journal of Telecommunication, Electronic and Computer Engineering, 16 (2). pp. 5-12. ISSN 2180-1843 E-ISSN 2289-8131
6. Mahmod Attar Bashi, Zainab Senan and Basri, Atikah Balqis and Senan, Shayma (2024) *Next-Generation Hotspot (NGH): advancing automatic roaming and seamless wi-fi network logins*. International Journal on Perceptive and Cognitive Computing, 10 (2). pp. 87-91. E-ISSN 2462-229X
7. Mansor, Hafizah (2024) *Student activities: Cyber Security SIG - the journey of empowering Cyber Security professionals*. KICT Newsletter.
8. Rafa, Elean Sugafta and Mahmooda, Adeeba and Sase, Takumi (2024) *Suicide risk prediction using artificial intelligence*. International Journal on Perceptive and Cognitive Computing (IJPCC), 10 (2). pp. 1-7. E-ISSN 2462-229X
9. Seh Wali, Siti Syara Aiman and Nordin, Azlin (2024) *Design and development of a requirements conformance tool (RCT)*. International Journal on Perceptive and Cognitive Computing (IJPCC), 10 (2). pp. 74-79. E-ISSN 2462-229X
10. Zainal Abidin, Nadzurah and Ismail, Amelia Ritahani and Amir Hussin, Amir 'Aatieff and Shafie, Muhammad Laziem and Muhamad Ridzuan, Aishah Nabilah (2024) *Deep learning generative adversarial network model for automated detection of diabetic retinopathy*. In: 16th International Engineering and Computing Research Conference (EURECA), 24th November 2021, Subang Jaya, Selangor, Malaysia.
11. Zainuddin, Ahmad Anwar and Amir Hussin, Amir 'Aatieff and Annas, Ammar Haziq and Bharudin, Mohamad Syafiq Asyraf and Abdul Rajat @ Abdul Razak, Alin Farhain and Mahazir, Muhammad Nur Badri and Ahmad Puzi, Asmarani and Handayani, Dini Oktarina Dwi and Abdul Raziff, Abdul Rafiez (2024) *Selective of IoT applications for water quality monitoring in Malaysia.* International Journal on Perceptive and Cognitive Computing (IJPCC), 10 (2). pp. 8-16. E-ISSN 2462-229X
12. Zainuddin, Ahmad Anwar and Handayani, Dini Oktarina Dwi and Mohd Ridza, Isyraq Haziq and Abdul Rahman, Siti Husna and Kamarudin, Saidatul Izyanie and Ahmad, Khairul Zakwan and Mahazir, Mirza Darwisy and Sukhaimi, Muazzam Hazmi and Subramaniam, Krishnan and Firdaus Basri, Mohamad Irfan and Mohd Dhuzuki, Nurul Hanis (2024) *Converging for security: blockchain, Internet of Things, Artificial Intelligence – why not together?* In: 14th IEEE Symposium on Computer Applications & Industrial Electronics, 24-25 May 2024, Penang.

PUBLICATION

(SUBMISSION IN IREP FOR JULY 2024)

13. Zainuddin, Ahmad Anwar and Mohd Dhuzuki, Nurul Hanis and Ahmad Puzi, Asmarani and Johar, Mohd Naqiuddin and Yazid, Maslina (2024) *Calibrating hand gesture recognition for stroke Rehabilitation Internet-of-Things (RIOT) using MediaPipe in smart healthcare systems.* International Journal of Advanced Computer Science and Applications, 15 (7). pp. 568-583. ISSN 2158-107X E-ISSN 2156-5570
14. Zainuddin, Ahmad Anwar and Mohd Nor, Rizal and Amir Hussin, Amir 'Aatieff and Mohd Sazali, Muhammad Nurzikry and Mohd Razali, Muhammad Irfan Zaki and Khalid, Muhammad Nor Syahmi and Fazail, Muhammad Nazmi and Norazman, Nik Muhammad Faris Firdaus (2024) *IoT-powered protection: the smart door access system. In: APS Proceedings*. Academica Press Solution, Kelantan, Malaysia, pp. 183-190.
15. Jamaludin, Nazurin Qamarina and Ahmad Kamran, Alya Aqilah and Zainal Abidin, Aisyah Najibah and Shamsuddin, Sakinah and Ahmad Dahlan, Abdul Rahman (2024) *A conceptual Educoach multi-sided business model: online tutoring platform to improve career opportunities of B40s and unemployed graduates as digital entrepreneurs.* Journal of Science and Technology, 29 (1). pp. 18-30. E-ISSN 2410-5163
16. Mohamed Sofiadin, Aidrina (2024) *Threats of Extended Reality (XR) applications to teaching and learning: instructors' perspectives*. In: 25th International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2024), 4th - 7th June 2024, Perth, Australia.
17. Zainal Azmi, Nurazlin (2024) *Outcome-Based Education series #1 - writing the course learning outcomes the OBE way*. KICT Newsletter (4/2024). p. 2.