



CURRICULUM VITAE

Assoc. Prof. Ts. Dr. Nur Izura Udzir
BCS (UPM), MSc. (UPM), PhD (York)



Deputy Director (Strategic Management)
Centre for Corporate Strategy and Relations

PERSONAL DETAILS

Work Address : Department of Computer Science,
Faculty of Computer Science and Information Technology,
Universiti Putra Malaysia,
43400 UPM Serdang, Selangor, Malaysia

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Specialization : Information security, intrusion detection systems, access control,
biometrics security and privacy, cryptographic techniques,
steganography, identification and authentication, information
security management, coordination in distributed systems

Academic Qualifications : PhD in Computer Science, University of York, UK, 2006
Master of Science (Comp. Sc.), Universiti Putra Malaysia, 1998
Bac. of Computer Science, Universiti Pertanian Malaysia, 1995

H-index & Citations : **20** (Scopus) / **28** (Google Scholar) as of February 2025
1703 (Scopus) / 3253 (Google Scholar)

No. years of service at UPM : 26 years

Professional Qualifications/Certifications and Membership

1. Professional Technologist, Malaysian Board of Technologists (MBOT) – since 29 March 2021.
2. Member, Cyber Security Academia Malaysia (CSAM) (ID: 20220024) – since 10.02.2022.
3. Member, IEEE Computer Society
4. Member, Malaysian Board of Technologists (MBOT) – since April 2018
5. Committee Member, Information Security Professionals Association of Malaysia (ISPA.my)
6. Member, Malaysian Society for Cryptology Research (MSCR), 2013-2021.
7. Member, The Society of Digital Information and Wireless Communications (SDIWC)
8. CompTIA A+ Certified Professional IT Technician, 17 Dec 2007, CompTIA
9. Microsoft Gold Certified: Microsoft Windows Server 2008, 24 Dec 2008, Microsoft Corporation

TEACHING

Postgraduate level courses:

1. Information Security Management
2. Intrusion Detection System
3. Research Methods in Computer Science
4. Selected Topics in Distributed Computing
5. Advanced Programming Languages
6. Database Technology
7. Object Oriented Programming (C++)

Undergraduate level courses:

1. Problem Solving and Programming Concepts
2. Operating System (since 2007 to date)
3. Computer Programming (Java)
4. Computer Programming (C++)
5. Data Structure (1998, 2007)
6. Special Topics in Computer Science
7. Fortran Programming
8. Industrial Training (Coordinator)

ADMINISTRATIVE RESPONSIBILITIES

1. Deputy Director (Strategic Management), Centre for Corporate Strategy and Relations, UPM (15 Apr 2024 – 14 Apr 2027)
2. Deputy Dean (Academic), FSKTM (1 Oct 2022 – 14 Feb 2024)
3. Director, Co-curriculum and Student Development Center, UPM (1 Aug 2019 - 31 July 2022)
4. Deputy Director, Co-curriculum and Student Development Center, UPM (2 Jan 2018 – 2019)
5. Head, Department of Computer Science, FSKTM (Dec 2013-Nov 2016)
6. Head, Information Security Group, FSKTM (2008-2013)
7. Coordinator, External Programs Unit, FSKTM (Jan 2017 - Dec 2018). (UPM Holdings, UPM Education & Training Sdn Bhd.)
8. Programme Coordinator, Master of Computer Science, FSKTM (Jan 2012- Nov 2013)

RESEARCH PROJECTS

As Project Leader:

1. A Security Model to Detect Intrusions in Internet of Things using Machine Learning. **Nur Izura Udzir**, Aldhamari Elham Ali Nasser, Thinagaran a/l Perumal, Nuur Alifah Roslan. GP-IPS, RM 20,000, May 2022- May 2024
2. A Hybrid Multibiometric Continuous Authentication Framework Based on Shielding Functions and Non-Invertible Transformation, FRGS (08-01-15-1721FR), RM 71,000, Nov 2015 – Oct 2017, Completed
3. Intrusion Detection with Hybrid Learning Algorithm, RUGS, RM 39,000, Nov 2012 – Oct 2014, Completed
4. A Linear-Temporal Formal Language for Context-Sensitive Usage Control Policies, FRGS (02-12-10-1005FR), RM 42,500, March 2011 - Aug 2012, Completed
5. User-centered Privacy Model Based on Mobile Trusted Module (MTM) in Pervasive Computing Systems, FRGS, RM50,000, Sept 2009 - Feb 2011, Completed
6. Refining Garbage Collection in Open Distributed Systems, Science Fund, RM 120,000, Dec 2007 – May 2009, Completed
7. Effectiveness of CBIS Combination Model, UPM Short Term Grant, RM10,000, June 2000 – May 2001, Completed

As Co-Researcher:

1. QR Code Image Manipulation using Bilinear Zooming Steganography for Ownership Protection and Product Authenticity, Nuur Alifah Binti Roslan, Rahmita Wirza Binti O. K. Rahmat, Fatimah Khalid, Nur Izura Udzir. GP-IPM - Geran Putra Inisiatif Putra Muda, 20/12/2022 – 19/12/2024, RM35,000.
2. ASEAN Cybersecurity Skilling Programme (ACSP). Hizmawati Madzin, Nur Izura Udzir, Omrah Hassan@Hussin. International grant ACSP, July 2022 – Dec 2022, RM13,813, RM47,000.
3. Development of Teaching and Learning Innovation Guideline Based on Best-Practices Analysis Towards the Transformation of Teaching and Learning Delivery, GIPP.
4. National Integrated Information Security Threat Factor Profiling Model, Cybersecurity Malaysia (Private Fund).
5. Student Evaluation Model for the Implementation of iCGPA in Computer Science Curriculum, GIPP.
6. Enhanced Tight Finite Key Scheme for Quantum Key Distribution (QKD) Protocol To Authenticate Multi-Party System In Cloud Infrastructure, FRGS.
7. An Integration of Best Population and Social Learning in Tic-Tac-Toe, RUGS.
8. Ensemble Mobile Platform for Innovative Digital Economy Environmental - Digital Forensic Investigation for Honey-Bee Computing Environment, LRGS.
9. Skyline Preference Evaluation Models for Uncertain and Incomplete Multidimensional Database, RUGS.
10. A New Approach for Better Data Encryption Based on Synchronous Stream Cipher, RUGS
11. Detection and Prevention Mechanism for DBMS against SQL/XML Injection Vulnerabilities in Web Services Environment, RUGS.
12. Data Quality Assessment of Human Resource Management Information System, FRGS
13. Mining Computer Science Students Academic Results for Performance Indicators, RUGS
14. Intelligent Peri-Operative Decision Support System (iPoDSS) for Coronary Artery Disease Patients, Science Fund.

Collaborations with Other Institutions - as Co-Researcher

1. A Framework for Detecting Fileless Cryptocurrency Mining Malware in Blockchain Technology (USM), FRGS.
2. An Algorithm to Identify Purpose for Personal Data in Big Data Analytics using Correlation Approach (UTM), FRGS
3. Identification of True Identity of Online Users based on Human Intrinsic Characteristics for Cyber Crime Investigation, Shukor Bin Abd Razak (UTM), FRGS
4. Identity Disintegration Mechanism For Cardiothoracic Information Privacy, UTM-RUGS
5. New Fragmented Image File Identification and Recovery Mechanisms Using Error Level Analysis and Data Compression Features for Digital Forensic Investigation (UTM), FRGS
6. A Prototype Development of a Micro Cryptographic Engine in Resource-Constrained Devices (UNITEN), PRGS

* FRGS – Fundamental Research Grant Scheme (MOHE)
RUGS – Research University Grant Scheme

POSTGRADUATE SUPERVISIONS

Number of postgraduate students supervised:

Program	Status	As Main Supervisor	As Co-Supervisor
PhD	Graduated	11	29
	Ongoing	5	16
Masters (by research)	Graduated	2	11
	Ongoing	0	0
Masters (by coursework)	Graduated	35	N/A
	Ongoing	2	N/A

I also supervise student projects for:

Master of Information Security (by coursework)	16
Master of Computer Science (by coursework)	15
Master of Information Technology (by coursework)	4

PhD – as Chairman/Main Supervisor

1. Md Nabil Ahmad Zawawi, A Coverless Image Steganography Framework for Secret Communication Using Robust and Diverse Image Datasets Selection
2. Jamilah Ibrahim Alamri, Privacy Protection in Location-Based Services in Smart Cities using Deep Learning
3. Anis Fatnin Mohd As'ri, Risk Assessment and Mitigation Model for Vehicle Networks Security
4. Elham Ali Nasser Aldhamari, Intrusion detection system for IoT devices using AI technology
5. Ahmad Rizaa'in Yusof, An Enhanced DDOS Attack Detection Framework using Optimal Feature Selection Method and Distance Measurement Information Theory.

Graduated:

1. Reema Ahmed Abdalla bin Thabit, Dynamic Text Steganography Model using RGB Coding and Character Spacing to Improve Capacity, Invisibility and Security (2022)
2. Majid Torabi, Feature Selection and Outlier Detection using Ensemble Technique for Intrusion Detection (2020)
3. Yousef Bakhdlaghi Abdullah, Secure Framework for Outsourcing Intrusion Detection Services (2020)
4. Nuur Alifah Roslan, Character Property Method with Multifactor Biometric Authentication for Arabic Text Steganography (2020)

5. Mohd Rafiz Salji, Access Control Model Based on Trust, Purpose and Role in Materialized View for Privacy Protection (2019)
6. Jegede Abayomi Joshua, A Hybrid Cryptosystem for Biometric Authentication and Template Protection (2017)
7. Reza Adinehnia, Intrusion Detection of Database Systems using User-Independent and Location-Aware Profiling Approach (2017)
8. Warusia Mohamed Yassin, An Integrated Anomaly Intrusion Detection Scheme using Statistical, Hybridized Classifiers and Signature Approach (2015)
9. Mohammad Mahboubian, Enhanced Statistical Anomaly Intrusion Detection Model in Dynamic Environments using Artificial Immune System (2014)
10. Asif Iqbal Hajamydeen, Unsupervised Anomaly-Based Intrusion Detection Framework for Heterogeneous Logs (2013)
11. Ali Dehghantanha, A linear temporal formal language for privacy policies (2011)

Previous students:

1. Diya Mohammed Abdullah Al-Muntaser, Human vulnerability in information security.
2. Ahmed Ali Abdo Abdullah, Protecting the Privacy of User.
3. Data on Location-based ServicesZul Hilmi Abdullah, Advanced File Integrity Monitor using File Classification.
4. Abdeladeem Ab. Ahfaidha, Permuted Synchronous Stream Cipher (dropped, deceased)
5. Khairul Amin Mohamad Sukri, Hybrid Intrusion Detection and Response System Inspired by Artificial Immune System Approach
6. Ahmed Ali Abdo Abdullah, Protecting the Privacy of User Data on Location-based Services (withdrawn).

PhD – as Co-Supervisor (Oversea university)

1. Gulmira Shakhmetova (L.N. Gumilyov Eurasian National University, Astana, Kazakhstan), Model and methods for the development of public key cryptosystem based on finite automata

Master of Science (by research) – as Chairman/Main Supervisor

Graduated:

1. Maznifah Bt Salam @ Mohd Sahalan, High Availability Through Server Virtualization (2016)
2. Norazah Abd Aziz, Extending TLS-Authenticated Key Exchange with Mutual Attestation for Platform Integrity Assurance (2014)

POSTGRADUATE THESES EXAMINATIONS

Role	Internal	External
Examiner for PhD theses (international/oversea universities)	N/A	5
Examiner for PhD theses	21	25
Examiner for Master theses	10	15
Chairman of Thesis Examination Committee (Viva Voce)	23	N/A

PUBLICATIONS

Number of Publications:

Publication	Quantity
Books	4
Chapters in Book	15
Journals:	
<i>ISI-Indexed Journal</i>	(25)
<i>Citation Indexed Journal (Scopus)</i>	(68)
<i>Journal Indexed by Other Bodies</i>	(29)
<i>Non-Citation Indexed Journal</i>	(11)
	133

International Conference Proceedings:		
<i>Cited Proceedings (in Scopus)</i>	(68)	116
<i>International Conference Proceedings</i>	(48)	
Other publications		5

Books

1. Khaleel Ahmad, M. N. Doja, **Nur Izura Udzir**, Manu Pratap Singh (eds.). 2019. *Emerging Security Algorithms and Techniques*, New York: Chapman and Hall/CRC. ISBN 9780815361459. 318 pages.
2. Khaleel Ahmad, **Nur Izura Udzir**, Ganesh Deka (eds.). 2019. *Opportunistic Networks: Mobility Models, Protocols, Security, and Privacy*, Oxford: Chapman and Hall/CRC. 376 pages.
3. Rusli Abdullah and **Nur Izura Udzir** (eds), 2015. *The Instructor's Manual for Case Study Development and Its Application: A Case of Computer Science Application*, UPM Press. ISBN 978-967-344-481-6.
4. **Nur Izura Udzir**, Razali Yaakob, Mohamed Nordin Zakaria. 2002. *C++: Pengenalan kepada Pengaturcaraan (C++: Introduction to Programming)*, Selangor, Malaysia: Prentice Hall. ISBN 983-9236-81-4.

Chapters in Book

1. Mahmood, R.A.R., Abdullah, A., Hussin, M., **Udzir, N.I.** (2022). Dictionary-Based DGAs Variants Detection, in *Advances on Intelligent Informatics and Computing: Health Informatics, Intelligent Systems, Data Science and Smart Computing, Lecture Notes on Data Engineering and Communications Technologies*, vol 127, pp. 258-269, Springer, ISBN 9783030987404 (Scopus) DOI: https://doi.org/10.1007/978-3-030-98741-1_22 (Scopus)
2. Wahiza Wahi, Fazilah Idris, Adi Irfan Che Ani, Mazuki Mohd Yasim, Asmadi Ishak, Naida Khalil, **Nur Izura Udzir**, Paramasivam Muthusamy, Siti Suriawati Isa. 2020. *Pengajaran dan Pembelajaran Kokurikulum, in Kokurikulum dan Pembangunan Mahasiswa Holistik*, pp. 89-109. UMP Press. ISBN 978-967-2226-56-7.
3. Abayomi Jegede, **Nur Izura Udzir**, Azizol Abdullah and Ramlan Mahmud. 2017. A Secure and Privacy Preserving Iris Biometric Authentication Scheme with Matrix Transformation. In: Choi D., Guilley S. (eds) *Information Security Applications. WISA 2016. Lecture Notes in Computer Science*, vol 10144, pp. 341-352. Springer, Cham. ISSN: 0302-9743. DOI: 10.1007/978-3-319-56549-1_29 (Scopus)
4. Mohd Rafiz Salji, **Nur Izura Udzir**, Mohd Izuan Hafez Ninggal, Nor Fazlida Mohd. Sani, Hamidah Ibrahim. 2016. Performance-Aware Trust-Based Access Control for Protecting Sensitive Attributes, in *Recent Advances on Soft Computing and Data Mining, Advances in Intelligent Systems and Computing, Volume 549 of the series Advances in Intelligent Systems and Computing*, pp. 560-569, Springer Nature, ISSN: 2194-5357. DOI: https://doi.org/10.1007/978-3-319-51281-5_56 (Scopus).
5. Ahmad Riza'ain Yusof, **Nur Izura Udzir**, Ali Selamat. 2016. An Evaluation on KNN-SVM Algorithm for Detection and Prediction of DDoS Attack, in *Trends in Applied Knowledge-Based Systems and Data Science, Lecture Notes in Computer Science*, vol. 9799, pp.95-102. DOI: 10.1007/978-3-319-42007-3_9, Springer Nature. ISSN: 0302-9743 (Scopus)
6. Rusli Abdullah and **Nur Izura Udzir**. 2015. *The Instructor's Manual for Case Study Development and Its Application: A Case of Computer Science Application*, in *The Instructor's Manual for Case Study Development and Its Application: A Case of Computer Science Application*, pp. 1-3, UPM Press. ISBN 978-967-344-481-6.
7. Fatimah Sidi, Lilly Suriani Affendey, Hamidah Ibrahim, **Nur Izura Udzir**, Zaiton Muda, Aida Mustapha and Novia Admodisastro, 2015. What Went Wrong?, in *The Instructor's Manual for Case Study Development and Its Application: A Case of Computer Science Application*, pp. 37-40, UPM Press. ISBN 978-967-344-481-6.

8. Rusli Abdullah and **Nur Izura Udzir**. 2014. The Development Process of Case Study and Its Application, in Rusli Abdullah (ed.), *A Case Study for Computer Science Application*, pp. 1-5. Universiti Putra Malaysia Press 2014. ISBN 978-967-344-446-5.
9. Fatimah Sidi, Lilly Suriani Affendey, Hamidah Ibrahim, **Nur Izura Udzir**, Zaiton Muda, Aida Mustapha and Novia Admodisastro. 2014. What Went Wrong?, in Rusli Abdullah (ed.), *A Case Study for Computer Science Application*, pp. 47-58. Universiti Putra Malaysia Press 2014. ISBN 978-967-344-446-5.
10. Halboob, W., Alghathbar, K. S., Mahmud, R., **Udzir, N. I.**, Abdullah, M. T., & Deghantanha, A. 2014. An Efficient Computer Forensics Selective Imaging Model, in *Future Information Technology, Lecture Notes in Electrical Engineering*, 276, pp. 277-284, Springer. ISSN: 18761100, DOI: 10.1007/978-3-642-40861-8_41. (Scopus)
11. Norziana Jamil, Ramlan Mahmud, Muhammad Reza Z'aba, **Nur Izura Udzir** and Zuriati Ahmad Zukarnain. 2011. An Observation of Cryptographic Properties of 256 One-Dimensional Cellular Automata Rules, *Communications in Computer and Information Science*, 251(2):409-420. ISSN: 1865-0929. DOI: 10.1007/978-3-642-25327-0_35. (Scopus)
12. Ali Deghantanha, **Nur Izura Udzir**, Ramlan Mahmud, 2011. Evaluating User-centered Privacy Model (UPM) in Pervasive Computing Systems, in *Lecture Notes in Computer Science (LNCS)*, vol. 6694, pp. 272-284, DOI: 10.1007/978-3-642-21323-6_35 (*Procs. 4th International Conference on Computational Intelligence in Security for Information Systems (CISIS 2011)*, 8-10 Jun 2011, Torremolinos, Málaga, Spain). ISSN: 0302-9743. DOI: 10.1007/978-3-642-21323-6_35 (Scopus)
13. Ali Amer Alwan, Hamidah Ibrahim, and **Nur Izura Udzir**. 2009. Improving Constraints Checking in Distributed Databases with Complete, Sufficient, and Support Tests, in *Handbook of Research on Innovations in Database Technologies and Applications: Current and Future Trends (Encyclopedia of Database Technologies and Applications, 2nd. Edition)*, Buenos Aires (Argentina), January 2009. DOI: 10.4018/978-1-60566-242-8.ch037
14. Shahram Golzari, Shyamala Doraisamy, Md Nasir Sulaiman and **Nur Izura Udzir**. 2009. Incorporation of Adapted Real World Tournament Selection into Artificial Immune Recognition System, in *Studies in Computational Intelligence*, 214:329-334. Springer. ISSN: 1860-949X. DOI: https://doi.org/10.1007/978-3-540-92814-0_51. (Scopus)
15. Shahram Golzari, Shyamala Doraisamy, Md Nasir Sulaiman and **Nur Izura Udzir**. 2009. A review of concepts, algorithms and recognition based applications of artificial immune system, in *Communication in Computer and Information Science (CCIS)*, 6:569-576. ISSN: 1865-0929. DOI: https://doi.org/10.1007/978-3-540-89985-3_70 (Scopus)

ISI/JCR-Indexed Journals

1. Reema Thabit, **Nur Izura Udzir**, Sharifah Md Yasin, Aziah Asmawi, Adnan Gutub. 2022. CSNTSteg: Color Spacing Normalization Text Steganography Model to Improve Capacity and Invisibility of Hidden Data, *IEEE Access*, vol. 10, pp. 65439 – 65458, June 13, 2022. ISSN 2169-3536 / 2169-3536, DOI 10.1109/ACCESS.2022.3182712. (JCR Q2 IF 3.476)
2. Ghoncheh Babanejad Dehaki, Hamidah Ibrahim, Ali A. Alwan, Fatimah Sidi, **Nur Izura Udzir**, Ma'aruf Mohammed Lawal. 2022. Efficient Region-based Skyline Computation for a Group of Users, *IEEE Access*, vo. 10, pp. 94496-94517. ISSN: 2169-3536, Online ISSN: 2169-3536, DOI: 10.1109/ACCESS.2022.3204115. (JCR Q2)
3. Ghoncheh Babanejad Dehaki, Hamidah Ibrahim, Ali A. Alwan, Fatimah Sidi, **Nur Izura Udzir**, Ma'aruf Mohammed Lawal. 2022. A Continuous Region-Based Skyline Computation for a Group of Mobile Users, *Symmetry*, vol.14(10), 2003, pp. 2-29. DOI: doi.org/10.3390/sym14102003. EISSN: 2073-8994. (JCR Q2 IF 2.94)
4. Teo Poh Kuang, Hamidah Ibrahim, Fatimah Sidi, **Nur Izura Udzir**, Ali A. Alwan. 2021. An Effective Naming Heterogeneity Resolution for XACML Policy Evaluation in a Distributed Environment, in *Symmetry* 2021, 13(12), 2394; <https://doi.org/10.3390/sym13122394>. (ISI JCR)
5. Reema Thabit, **Nur Izura Udzir**, Sharifah Md Yasin, Aziah Asmawi, Nuur Alifah Roslan, Roshidi Din. 2021. A Comparative Analysis of Arabic Text Steganography: Methods, Challenges,

- Recommendations, and Future Paths, in *Applied Sciences-Basel*,11(15), 6851. doi: <https://doi.org/10.3390/app11156851>. ISSN 2076-3417 (ISI JCR Q2, IF = 2.474).
6. Hassan Mansur Hussien, Sharifah Md Yasin, **Nur Izura Udzir**, Mohd Izuan Hafez Ninggal. 2021. Blockchain-Based Access Control Scheme For Secure Shared Personal Health Records Over Decentralised Storage, in *Sensors (Special Issue Data Privacy, Security, and Trust in New Technological Trends)*, 21(7), 2462; <https://doi.org/10.3390/s21072462>. ISSN 1424-8220 (MDPI) (JCR Q1, Impact Factor: 3.275)
 7. Hassan Mansur Hussien, Sharifah Md Yasin, **Nur Izura Udzir**, Mohd Izuan Hafez Ninggal. 2021. Blockchain Technology in the Healthcare Industry: Trends and Opportunities, in *Journal of Industrial Information Integration*, vol.22, article no. 100217, pp. 1-64. ISSN 2467-964X. <https://doi.org/10.1016/j.jii.2021.100217>. (JCR Top 10%, IF 10.615)
 8. Ghazaleh Babanejad Dehaki, Hamidah Ibrahim, Ali Amer Alwan, Fatimah Sidi, **Nur Izura Udzir**. 2021. Efficient Skyline Computation Over an Incomplete Database with Changing States and Structures, in *IEEE Access*, vol. 9, pp. 88699-88723, 2021, doi: 10.1109/ACCESS.2021.3090171. ISSN: 2169-3536 (JCR Q1, IF: 3.745).
 9. Ghazaleh Babanejad Dehaki, Hamidah Ibrahim, Fatimah Sidi, **Nur Izura Udzir**, Ali A. Alwan, Yonis Gulzar. 2020. Efficient Computation of Skyline Queries over a Dynamic and Incomplete Database, *IEEE Access*, vol. 8, pp. 141523-141546, 2020, doi: 10.1109/ACCESS.2020.3011652. (JCR Q1, IF: 3.745).
 10. H.M. Hussien, S.M. Yasin, **N.I. Udzir**, A. A. Zaidan, B. B. Zaidan. 2019. A Systematic Review for Enabling of Develop a Blockchain Technology in Healthcare Application: Taxonomy, Substantially Analysis, Motivations, Challenges, Recommendations and Future Direction, *Journal of Medical Systems (2019)* 43:285-320. ISSN 0148-5598, DOI: <https://doi.org/10.1007/s10916-019-1445-8> [ISI Q2, Impact factor 2.098]
 11. Ali A. Alwan, Hamidah Ibrahim, **Nur Izura Udzir**, and Fatimah Sidi. 2018. Missing Values Estimation for Skylines in Incomplete Database, *International Arab Journal of Information Technology (IAJIT)*, Zarqa University, Vol.15, No. 1, January 2018, pages 66-75 [ISI Q4 Impact factor 0.519].
 12. Asif Iqbal Hajamydeen and **Nur Izura Udzir**. 2016. A Refined Filter for UHAD to Improve Anomaly Detection, *Security and Communication Networks*, John Wiley & Sons, 9(14), 2434 – 2447, DOI: 10.1002/sec.1514. ISSN 1939-0122. (Q4, ISI Impact Factor 2015: 0.806).
 13. Ali Alwan, Hamidah Ibrahim, **Nur Izura Udzir**, Fatimah Sidi. 2016. Processing Skyline Queries in Incomplete Distributed Databases, *Journal of Intelligent Information Systems*, Volume 48, Issue 2, 1 April 2017, pp. 399-420, Springer. ISSN: 0925-9902. DOI 10.1007/s10844-016-0419-2 (Q3, ISI Impact Factor 1.00)
 14. Asif Iqbal Hajamydeen, **Nur Izura Udzir**, Ramlan Mahmud and Abdul Azim Abdul Ghani. 2016. An unsupervised heterogeneous log-based framework for anomaly detection, *Turkish Journal of Electrical Engineering & Computer Sciences*, vol. 24, pp. 1117-1134. ISSN 1300-0632. (Q4, ISI Impact Factor: 0.644)
 15. Meghdad Mirabi Nooshabadi, Hamidah Ibrahim, Ali Mamat, **Nur Izura Udzir** and Leila Fathi. 2015. A Dynamic Compressed Accessibility Map for Secure XML Querying and Updating, *Journal of Information Science and Engineering (JISE)*, vol. 31, pp. 59-93. ISSN 1016-2364. (Q4, ISI IF 0.333)
 16. Hassan Barjini, Mohamed Othman, Hamidah Ibrahim, and **Nur Izura Udzir**. 2013. HybridFlood: Minimizing the effects of redundant messages and maximizing search efficiency of unstructured peer-to-peer networks, *Cluster Computing*, Volume 17, Issue 2, January 2014, Pages 551-568. ISSN 1386-7857. DOI 10.1007/s10586-013-0298-z. (Q2 ISI Impact factor 0.776)
 17. Waheed Yasin, Hamidah Ibrahim, **Nur Izura Udzir**, and Nor Asila Wati Abdul Hamid. 2014. An Overview of Media Streams Caching in Peer-to-Peer Systems, *Computer Journal*, Volume 57, Issue 8, 1 August 2014, Pages 1167–1177, ISSN: 0010-4620 DOI: 10.1093/comjnl/bxt054 (Q4 ISI impact factor 0.785)
 18. Meghdad Mirabi, Hamidah Ibrahim, Ali Mamat, and **Nur Izura Udzir**. 2012. An Encoding Scheme Based on Fractional Number for Querying and Updating XML Data, in *Journal of Systems and*

- Software*, 85(8):1831-1851. ISSN: 01641212, DOI: 10.1016/j.jss.2012.02.054, Elsevier. (Q1 ISI Impact factor 0.836).
19. Hassan Barjini, Mohamed Othman, Hamidah Ibrahim and **Nur Izura Udzir**. 2012. Shortcoming, problems and analytical comparison for flooding-based search techniques in unstructured P2P networks, in *Peer-to-Peer Networking and Applications*, vol. 5(1):1-13, Springer. ISSN: 19366442, DOI: 10.1007/s12083-011-0101-y. (Q3 ISI IF 0.229)
 20. Faramarz Safi, Masrah Azrifah Azmi Murad, Md.Nasir Sulaiman and **Nur Izura Udzir**. 2011. Adaptable Decentralized Service Oriented Architecture, in *Journal of Systems and Software (JSS)*, 84(10):1591-1617, ISSN: 01641212, DOI: 10.1016/j.jss.2011.03.031, Elsevier (Q1 ISI Impact factor 1.34).
 21. MuhammadReza HeidariNezhad, Zuriati Ahmad Zukarnain, **Nur Izura Udzir**, and Mohamed Othman. 2010. An Intra-domain Mobility Handling Scheme Across All-IP Wireless Networks, in *Wireless Personal Communications*, Volume 63, Issue 2, 2012, Pages 297-317, ISSN: 09296212, DOI: 10.1007/s11277-010-0119-0, Kluwer. (Q4 ISI Impact factor: 0.4)
 22. Ali Amer Alwan, Hamidah Ibrahim, and **Nur Izura Udzir**. 2009. Improved Integrity Constraints Checking in Distributed Databases by Exploiting Local Checking, in *Journal of Computer Science and Technology*, 24(4):665-674, July 2009. (Q4 ISI Impact factor 0.441)
 23. **Nur Izura Udzir**, Alan M. Wood dan Jeremy L. Jacob. 2007. Coordination with Multicapabilities, in *Science of Computer Programming: Special Issue on Coordination Models and Languages*, vol. 64(2), Jan 2007, pp. 205-222, ISSN: 01676423, DOI: 10.1016/j.scico.2006.06.005, Elsevier. (ISI Q2, Impact factor: 0.7)
 24. **Nur Izura Udzir**, Alan M. Wood dan Jeremy L. Jacob. 2005. Coordination with Multicapabilities, in *Lecture Notes in Computer Science*, vol. 3454, pp. 79-93. Springer. (Q4 ISI Impact factor: 0.402)

Citation-Indexed Journals (Scopus)

1. Mohd Rafiz Salji and **Nur Izura Udzir**. 2023. An Autonomous Role and Consideration of Electronic Health Systems with Access Control in Developed Countries: A Review, in the *International Journal of Advanced Computer Science and Applications (IJACSA)*, Volume 14, No 2, February 2023, pp.848-869. ISSN: 2156-5570 (Online), 2158-107X (Print), DOI: 10.14569/IJACSA.2023.0140297 (JCR Q4, Scopus)
2. Mohd Rafiz Salji, **Nur Izura Udzir**, Mohd Izuan Hafez Ninggal, Nor Fazlida Mohd. Sani, Hamidah Ibrahim. 2022. Trust-Based Access Control Model with Quantification Method for Protecting Sensitive Attributes, *International Journal of Advanced Computer Science and Applications (IJACSA)*, Volume 13 No 2, pp. 695-707, February 2022. ISSN 2158-107X, EISSN 2156-5570. DOI: 10.14569/IJACSA.2022.0130282 (JCR Q4, Scopus)
3. Majid Torabi, **Nur Izura Udzir**, Mohd Taufik Abdullah, Razali Yaakob. 2021. A Review on Feature Selection and Ensemble Techniques for Intrusion Detection System, in *International Journal of Advanced Computer Science and Applications (IJACSA)* - Vol. 12 No. 5 May 2021, pp. 538-553. ISSN: 2156-5570 (Online) 2158-107X (Print), DOI: 10.14569/issn.2156-5570 (Scopus)
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53. Hamid Jazayeriy, Masrah Azrifah Azmi-Murad, Md. Nasir Sulaiman, **Nur Izura Udzir**. 2008. A Neural Network-Based Model to Learn Agent's Utility Function. In the Proceedings of the 3rd International Symposium on Information Technology 2008 (ITSim'08), 26-29 August 2008, Kuala Lumpur. DOI: 10.1109/ITSIM.2008.4631653. (Scopus)
54. Ali Amer Alwan, Hamidah Ibrahim, and **Nur Izura Udzir**. 2008. A Framework for Checking Integrity Constraints in a Distributed Database. In the Proceedings of the 2008 International Conference on Convergence and Hybrid Information Technology (ICCIT 08), Busan (Korea), 11-13 November 2008, pp. 644-650. DOI: 10.1109/ICCIT.2008.58. (Scopus)
55. Wong Chen Yuen, Hamidah Ibrahim, **Nur Izura Udzir**. 2008. Distributed Real-Time Processing of Range-Monitoring Queries in Heterogeneous Mobile Databases. In Proceedings of the 2008 International Conference on Convergence and Hybrid Information Technology (ICCIT 08), Busan (Korea), 11-13 November 2008, pp. 74-81. DOI: 10.1109/ICCIT.2008.59. (Scopus)
56. MuhammadReza HeidariNezhad, Zuriati Ahmad Zukarnain, **Nur Izura Udzir**, and Mohamed Othman. 2008. A connection selection method for vertical handoff in hybrid wireless environment, in Procs. International Symposium on Applied Sciences in Biomedical and Communication technologies (ISABEL 2008), 25-28 October 2008, Aalborg University, Denmark. Pages 161-165. DOI: 10.1109/ICFN.2009.39. (Scopus)
57. Shahram Golzari Hormozi, Shyamala Doraisamy, Md Nasir Sulaiman and **Nur Izura Udzir**. 2008. A Hybrid Approach to Traditional Music Genre Classification: Combining Feature Selection and Artificial Immune Recognition System. In the Proceedings of the 3rd International Symposium on Information Technology 2008 (ITSim'08), 26-29 August 2008, Kuala Lumpur. DOI: 10.1109/ITSIM.2008.4631692. (Scopus)
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classification of traditional Malay music, 9th International Conference on Music Information Retrieval (ISMIR 2008), pp. 331-336. (Scopus)

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International Conference Proceedings

66. Nurfadhlina Mohd Sharef, Alyani Ismail, Goh Yong Meng, Dahlia Zawawi, Fairuz Izzuddin Romli, **Nur Izura Udzir**, Mohd Idham Abd Rashid, Mas Nida Khambari, Rafidah Hod, Wong Su Luan, Muta Haraz Zakaria@Ya. 2019. Usage of Methods and Tools in Teaching and Learning: UPM Story International Conference on E-Learning 2019 (ICOEL2019), Universiti Malaysia Sarawak, Malaysia, 21-22 August 2019, pp. 82-92.
67. **Nur Izura Udzir**, Gani A. Besbayev, Sabira T. Akhmetova, Zhanar U. Nyshanbayeva. 2018. Effects of Globalization through Information and Communication Technology: Security Threats and Risks Towards Family, International Conference of Industrial Technologies and Engineering (ICITE 2018), Kazakhstan, pp. 128-132.
68. Bolat Kurban, Zhanat Umarova, Zhalgasbek Iztayev, **Nur Izura Udzir**. 2018. The Main Concepts of IOT Technology, International Conference of Industrial Technologies and Engineering (ICITE 2018), Kazakhstan.
69. Teo Poh Kuang, Hamidah Ibrahim, Fatimah Sidi, & **Nur Izura Udzir**. 2017. Modality conflict analysis in XACML policy evaluation in Zulikha, J. & N. H. Zakaria (Eds.), Proceedings of the 6th International Conference of Computing & Informatics (pp. 708-713). Sintok: School of Computing.
70. Ghazaleh Babanejad, Hamidah Ibrahim, **Nur Izura Udzir**, Fatimah Sidi, & Ali Amer Alwan. 2017. Deriving skyline points over dynamic and incomplete databases in Zulikha, J. & N. H. Zakaria (Eds.), Proceedings of the 6th International Conference of Computing & Informatics (pp. 77-83). Sintok: School of Computing. (Scopus)
71. Maryam Shahpasand, Muhammad Ehsan Rana, Ramlan Mahmod, **Nur Izura Udzir**. 2016. Cloud Authentication Logic on Data Security, Proceedings of the Third International Conference on Digital Security and Forensics (DigitalSec), 6-8 Sept 2016, Kuala Lumpur, Malaysia, 2016, pp. 105-112.
72. Mohd Rafiz Salji, **Nur Izura Udzir**, Nor Fazlida Mohd Sani and Hamidah Ibrahim. 2016. Performance-Aware Trust-Based Access Control for Protecting Sensitive Attributes, 2016. The Second International Conference on Soft Computing and Data Mining (SCDM-2016), 18-20 Aug 2016, Bandung, Indonesia, pp. 59-69.
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74. Azreena Abu Bakar, Rusli Abdullah, Hamidah Ibrahim, **Nur Izura Udzir**. 2014. A Framework of Secure KMS with RBAC Implementation, Advancement in Information Technology International Conference (ADVCIT'2014), 16-18 December 2014, Bandung, Indonesia.

75. Teh Jia Yew, Khairulmizam Samsudin, **Nur Izura Udzir** and Shaiful Jahari Hashim. 2014. Buffer Overflow Attack Mitigation via TPM, Proc. International Infrastructure Conference (IICON 2014), Kuala Lumpur, Malaysia, 3-4 December 2014.
76. Waheed Yasin, Hamidah Ibrahim, **Nur Izura Udzir**, and Nor Asilah Wati Abdul Hamid. 2014. Intelligent Cooperative Least Recently Used Web Caching Policy based on J48 Classifier, 16th International Conference on Information Integration and Web-based Applications & Services (iiWAS2014), 4-6 December 2014, Hanoi, Vietnam.
77. Warusia Mohamed, **Nur Izura Udzir** and Zaiton Muda. 2014. Packet Header Anomaly Detection using Statistical Analysis, Procs. 7th International Conference on Computational Intelligence in Security for Information Systems (CISIS14), 25-27 June, 2014, Bilbao, Spain, pp.473-482.
78. Aziah Asmawi, Lilly Suriani Affendey, **Nur Izura Udzir** and Ramlan Mahmod. 2014. XTrust: A Severity-Aware Trust-Based Access Control for Enhancing Security Level of XML Database from Insider Threats, Procs. 3rd International Conference on Computer Science and Computational Mathematics 2014 (ICCSM 2014), May 8-9, Langkawi, Malaysia.
79. Anahita Farjamfar, Mohd Taufik Abdullah, Ramlan Mahmod, **Nur Izura Udzir**. 2014. Multimedia Files Signature Analysis in Blackberry Z10, Procs. Third International Conference on Cyber Security, Cyber Warfare, and Digital Forensic (CyberSec 2014), 29 Apr - 1 May, 2014, Lebanon.
80. Warusia Yassin, **Nur Izura Udzir**, Zaiton Muda and Md. Nasir Sulaiman. 2013. Anomaly-Based Intrusion Detection through K-Means Clustering and Naives Bayes Classification, in Proc. Fourth International Conference on Computing and Informatics 2013 (ICOCI 2013), 28-30 August 2013, Kuching, Sarawak, Malaysia. Pp. 298-303. ISSN 2289-3784
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82. Aziah Asmawi, Lilly Suriani Affendey, **Nur Izura Udzir** and Ramlan Mahmod. 2013. Blind XPath Injection Prevention System (BXIPS): An Education Tool for Computer Science Undergraduate Students Towards Secure Coding Practices in Web Services Development Course, International Conference on Engineering Education 2013, Madinah, Kingdom of Saudi Arabia, pp. 246-252.
83. Teh Jia Yew, Khairulmizam Samsudin, Shaiful Jahari Hashim and **Nur Izura Udzir**. 2013. Guarding the Guard: Towards Leveraging TPM Based Attestation on SELinux Security Function Hooks, Proc. International Conference on Information Technology Infrastructure 2013, IOI Hotel & Golf Resort, Kuala Lumpur, Malaysia, 29–30 October 2013.
84. Reza Adinehnia, **Nur Izura Udzir**, Elahe Poor Akbar. 2013. Static Conversion of Dynamic Information for Mobile Phone Forensics. *Procs. Second International Conference on Digital Enterprise and Information Systems (DEIS 2013)*, Kuala Lumpur, Malaysia, March 4-6, 2013.
85. Waheed Yasin, Hamidah Ibrahim, Nor Asila Wati Abdul Hamid and **Nur Izura Udzir**. 2013. The Affects of Caching in Browser Stage on the Performance of Web Items Delivery, *Procs. Second International Conference on Digital Enterprise and Information Systems (DEIS2013)*, Kuala Lumpur, Malaysia, March 4-6, 2013.
86. Teo Poh Kuang, Hamidah Ibrahim, Fatimah Sidi, and **Nur Izura Udzir**. 2013. Heterogeneity XACML Policy Evaluation Engine. The second International Conference on Digital Enterprise and Information Systems (DEIS 2013), pp. 230-238.
87. Mehdi Barati, Azizol Abdullah, **Nur Izura Udzir**, Mostafa Behzadi, Ramlan Mahmod, and Norwati Mustapha. Feature Subset Selection and Classification in Secure Shell Traffic Using Machine Learning, International Seminar on Mathematics and natural Sciences (ISMNS 2013), Samarkand, Uzbekistan.
88. Norziana Jamil, Ramlan Mahmod, Muhammad Reza Z`aba, **Nur Izura Udzir** and Zuriati Ahmad Zukarnain. 2012. A New Cryptographic Hash Functions Based on Cellular Automata, *in Procs. 2011 International Conference on Information and Computer Networks*, 26-28 Feb 2012, Singapore, pp. 388-391.

89. Norazah Abd Aziz, Sharipah Setapa, **Nur Izura Udzir**. 2012. Mutual Remote Attestation in IPsec Based VPN, in *Procs. 3rd International Conference on Cryptology & Computer Security 2012 (Cryptology2012)*, 4-6 June 2012, Langkawi, Malaysia, pp. 143-147.
90. **Nur Izura Udzir**, Ali Dehghantanha, Mohd Taufik Abdullah and Zul Hilmi Abdullah. 2011. Educating users to mitigate social engineering and privacy risks in social networking services, in *Procs. International Engineering Education Conference 2011 (IEEC2011)*, Madinah al-Munawarah, Kingdom of Saudi Arabia, 25-27 December 2011.
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92. Famarz Safi, Masrah Azrifah Azmi Murad, Md. Nasir Sulaiman and **Nur Izura Udzir**. 2011. Run-time Adaptable Business Process Decentralization, in *Procs. Third International Conference on Information, Process and Knowledge Management*, Gosier, Guadeloupe, France, pp. 76 - 82.
93. Ali Amer Alwan, Hamidah Ibrahim and **Nur Izura Udzir**. 2011. Skyline queries over incomplete multidimensional database. In *Proceedings of the 3rd International Conference on Computing and Informatics (ICOCI2011)*, 8-9 June 2011, Bandung, Indonesia.
94. Teo Poh Kuang, Hamidah Ibrahim, Fatimah Sidi and **Nur Izura Udzir**. 2011. Policy inconsistency detection based on RBAC model in cross-organizational collaboration. In *Proceedings of the 3rd International Conference on Computing and Informatics (ICOCI2011)*, 8-9 June 2011, Bandung, Indonesia.
95. Meghdad Mirabi, Hamidah Ibrahim, Leila Fathi, Ali Mamat and **Nur Izura Udzir**. 2011. A fractional number based labeling scheme for dynamic XML updating. In *Proceedings of the 3rd International Conference on Computing and Informatics (ICOCI2011)*, 8-9 June 2011, Bandung, Indonesia.
96. Lee Soon, Mohamed Othman and **Nur Izura Udzir**. 2009. IP Spoofing Defense: An Introduction, in *Procs. 22nd International Conference on Computing and Informatics (ICOCI 2009)*, 24 - 25 June 2009, Kuala Lumpur.
97. Shahram Golzari Hormozi, Shyamala Doraisamy, Md Nasir Sulaiman and **Nur Izura Udzir**. 2009. Artificial Immune Recognition System with Real World Tournament Selection for Breast Cancer Diagnosis, in *Procs. 1st Malaysian Joint Conference on Artificial Intelligence*, 14-16 July 2009, Kuala Lumpur, Malaysia.
98. Shahram Golzari Hormozi, Shyamala Doraisamy, Md Nasir Sulaiman and **Nur Izura Udzir**. 2009. The Effect of Noise on RWTSAIRS Classifier, in *Procs. 5th International Conference on Data Mining (DMIN 2009)*, 13-16 July 2009, Las Vegas, USA.
99. Shahram Golzari Hormozi, Shyamala Doraisamy, Md Nasir Sulaiman and **Nur Izura Udzir**. 2009. Incorporation of Adapted Real World Tournament Selection into Artificial Immune Recognition System, in *Procs. 22nd International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE 2009)*, June 24-27, Tainan, Taiwan.
100. Famarz Safi, Masrah Azrifah Azmi Murad, Md. Nasir Sulaiman and **Nur Izura Udzir**. 2009. A Frequent Path Detection Method to Intelligent Business Process Decomposition, in *Procs. 2009 International Conference on Semantic Web and Web Services (WORLDCOMP/SWWS'09)*, July 2009, Las Vegas, Nevada, USA.
101. Ali Dehghantanha, **Nur Izura Udzir**, Ramlan Mahmod and Zuriati Ahmad Zukarnain. 2009. User- Centered Trust Model in Cloud Computing, in *Procs. 2009 International Conference on Computer and Network Technology (ICCNT 2009)*, 24-26 July 2009, Chennai, India, pp. 326-323.
102. Shahram Golzari Hormozi, Shyamala Doraisamy, Md Nasir Sulaiman, **Nur Izura Udzir** and Noris Mohd Norowi. 2008. A Study on Feature Selection and Classification Techniques for Automatic Genres Classification of Traditional Malay Music. In the *Proceedings of the 9th International Conf. on Music Information Retrieval*, 14-16 Sept 2008, Philadelphia, USA.

103. Shahram Golzari, Shyamala Doraisamy, Md Nasir Sulaiman, **Nur Izura Udzir**. 2008. A Review on Concepts, Algorithms and Recognition based Applications of Artificial Immune System. In Proceedings of the 13th CSI International Computer Conference (CSICC 2008), 9-11 March 2008, Kish Island, Iran.
104. Shahram Golzari, Shyamala Doraisamy, Md Nasir Sulaiman, **Nur Izura Udzir**. 2008. Effect of Nonlinear Resource Allocation on AIRS Classifier Accuracy. In *Proceedings of the Knowledge Management International Conference (KMICe'08)*, 10-12 June 2008, Langkawi, Malaysia.
105. Ali Amer Alwan, Hamidah Ibrahim, **Nur Izura Udzir**. 2008. Integrity Constraint Checking in Distributed Databases with Complete, Sufficient, and Support Tests. In Proceedings of the *IADIS International Conference: Applied Computing 2008*, 10-13 April 2008, Algarve, Portugal, pp 49-58.
106. Rosliza Hamzah, Hamidah Ibrahim, **Nur Izura Udzir**. 2008. A framework for mobile web query searching using ontology domain. In *Proceedings of the Knowledge Management International Conference (KMICe'08)*, 10-12 June 2008, Langkawi, Malaysia, pp 433-438.
107. Ali Amer Alwan, Hamidah Ibrahim, **Nur Izura Udzir**. 2008. Local integrity checking using local information in a distributed database. In *Proceedings of the First Aalborg University IEEE Student Paper Contest 2007 (AISPC'07)*, 26 January 2008, Aalborg, Denmark.
108. Ali Amer Alwan, Hamidah Ibrahim, **Nur Izura Udzir**. 2007. Analysis of Integrity Tests for Checking Integrity Constraints in a Distributed Database. In *Proceedings of the First Regional Conference on Computational Science and Technologies (RCCST 2007)*, 29-30 November 2007, Sabah.
109. Ali Amer Alwan, Hamidah Ibrahim, **Nur Izura Udzir**. 2007. Checking Integrity Constraints in Distributed Databases with Support Tests. In the *Proceedings of the 3rd Malaysian Software Engineering Conference (MySEC'07)*, 3-4 Dec 2007, Kuala Lumpur, Malaysia.
110. Hamid Jazayeriy, Masrah Azrifah Azmi Murad, Md. Nasir Sulaiman, **Nur Izura Udzir**. 2007. Soft Computing Techniques in E-Negotiation: A Review. In the *Proceedings of the 3rd Malaysian Software Engineering Conference (MySEC'07)*, 3-4 Dec 2007, Kuala Lumpur, Malaysia.
111. **Nur Izura Udzir** dan Alan Wood. 2004. Implementing Contract Net in Tuple Space Models, dalam *Proceedings of the IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN 2004)*, 17-19 Feb, Innsbruck, Austria. pp. 325-330. ACTA Press.
112. Rusli Abdullah, Che Soh Said, Hazura Zulzalil, **Nur Izura Udzir**. 2001. A Framework for Implementing a Virtual Learning Environment, dalam *Proceedings of the International Conference on Information Technology and Multimedia at UNITEN (ICIMU 2001)*, 13 – 15 August 2001, Malaysia, pp. 420 – 426.
113. Hazura Zulzalil, **Nur Izura Udzir**, Fatimah Khalid, Rusli Abdullah, Azrina Kamaruddin. 2001. A Study on Usability Web Pages Using Heuristic Evaluation, dalam *Proceedings of the International Conference on Information Technology and Multimedia at UNITEN (ICIMU 2001)*, 13 – 15 August 2001, Malaysia, pp. 479 - 484.

PRODUCTS

PATENTS FILED

1. "A formal language for context-sensitive privacy policies", Ramlan Mahmud, **Nur Izura Udzir**, Zuriati Ahmad Zukarnain, Ali Dehghantanha (2010)
2. "A Formal Language for Describing, Comparing, and Constrasting Context-Dependent Policies", Ramlan Mahmud, **Nur Izura Udzir**, Zuriati Ahmad Zukarnain, Ali Dehghantanha (2010)

SOFTWARE COPYRIGHTS

1. "A Usage Control Model for Academies", **Nur Izura Udzir**, Ramlan Mahmud, Ali Dehghantanha, SD 3 Apr 2012
2. "A Framework for Forensic Investigation of Symbian Mobile OS", **Nur Izura Udzir**, Ramlan Mahmud, Ali Dehghantanha, SD 21 Oct 2011.

3. "A Centralized Network Management System", Ali Dehghantanha, **Nur Izura Udzir**, Farid Daryabar, SD 17 May 2013
4. "Parental Control System", Ali Dehghantanha, **Nur Izura Udzir**, Farid Daryabar, SD 17 May 2013
5. "A Secure Portable Storage System", Ali Dehghantanha, **Nur Izura Udzir**, Farid Daryabar, SD 17 May 2013
6. "A Stealth Employee Monitoring System", Ali Dehghantanha, **Nur Izura Udzir**, Farid Daryabar, SD 17 May 2013
7. "Stealth Key Logger", Ramlan Mahmud, **Nur Izura Udzir**, Ali Dehghantanha. SD, 2011.
8. "HideT", Ramlan Mahmud, Nuur Alifah Roslan, **Nur Izura Udzir**, SD 22 April 2013.
9. "A Savvy Text-Hiding System for Stealth Communication", Ali Dehghantanha, Ramlan Mahmud, **Nur Izura Udzir**, 2013
10. "CONSENT: Context-Sensitive Privacy Language", Ramlan Mahmud, **Nur Izura Udzir**, Ali Dehghantanha, SD 13 Dec 2010.
11. "Star Investigation 1.0: A Platform for Digital Investigation of Samsung Star Series PDAs", Ramlan Mahmud, **Nur Izura Udzir**, Ali Dehghantanha, SD, 2011.
12. "Enhanced IP Spoofing Defense through Clustered Interdomain Packet Filtering Strategy", Lee Soon, Mohamed Othman, **Nur Izura Udzir**, SD, June 2011.

OTHER COPYRIGHTS

1. Training material "LaTeX: A Document Preparation System", **Nur Izura Udzir**, SD 21 Oct 2011.
2. Training material "Turnitin: Plagiarism Checker", **Nur Izura Udzir**, 21 Oct 2011

CONSULTANCY

1. Consultant and Project Manager, Integrated Computerized System Development for SERI/SEMI ABIM Schools, Sungai Ramal, 1 Jun 2012 – 31 Desember 2013

TRAININGS CONDUCTED

1. Training "Let's Talk: Skill Enhancement Course for Co-curriculum Facilitators, 12 Jan 2019 at UPM.
2. Instructor, **LaTeX Workshop**:
 - 4 April 2019, at FSKTM
 - 19-20 March 2011, at FSKTM
 - 10 July 2009, at FSKTM
 - 26 June 2009, at FSKTM
3. Instructor, **Turnitin Workshop** (Originality Check and Plagiarism Prevention):
 - 13 April 2015, at iDEC, Putra Infoport, UPM
 - 6 March 2014, at iDEC, Putra Infoport, UPM
 - 9 April 2013, at Department of Mathematics, Faculty of Science, UPM
 - 19 March 2013, at iDEC, Putra Infoport, UPM
 - 14 Feb 2013, at Faculty of Engineering, UPM
4. Instructor, **Refworks** Bibliography Management and **Turnitin**, organized by CADe UPM, on 28-29 June 2010, at UPM Bintulu Campus

RECOGNITION

Role	Quantity
As Keynote/Invited Speaker	26
As Speaker at Seminars/Forums	81
Interviewed by mass media (TV, radio, newspaper)	41
Journal article reviewer	38
Conference article reviewer	23
Book chapter reviewer	1

As Keynote/Invited Speaker:

International level:

1. **Keynote speaker** at the Global AI Summit 2024 - International Conference on Artificial Intelligence & Emerging Technology, 4-6th September 2024 at Bennett University, Greater Noida, India. Title: "Harnessing AI for Cyber Security Research and Insights"
2. **Invited speaker** at the Seminar on Cybercrime and Substance Abuse Consciousness by Royal Malaysian Police", entitled "Unleashing Technologies for Smart Future", 7 May 2024, Kuala Lumpur, in conjunction with the Defence Service Asia (DSA) 2024 Exhibition and Conference and National Security Asia (NATSEC ASIA 2024). Organized by DSA Exhibition and Conference Sdn Bhd, and hosted, supported and co-organised by the Ministry of Defence and Ministry of Home Affairs, Malaysia.
3. **Keynote Speaker** at the International Conference on Automation and Computation (AutoCom-2022), 20-21 December 2022, online, organized by Graphic Era Hill University, Dehradun, Uttarakhand, India. Title: "Interdisciplinary Cybersecurity Research"
4. **Distinguished Speaker** for Global E-FDP (Faculty Development Program) on "Unleashing Research Potential: Global Trends and Practices", 7-11 March 2022, in Hybrid Mode, Online and Offline @ Galgotias University, Delhi-NCR, India. Title: "Basics of Publishing: Organizing and Structuring Research Paper Script"
5. **Keynote Speaker** at the 5th Global Webinar on Applied Science, Engineering and Technology, 20-21 October 2022, online, organized by Global Scientific Guild. Title: "Digital Text Steganography: Challenges and Current Research"
6. **Keynote speaker** at the 3rd International Conference on Communication and Computing system (ICCCS-2021), jointly organized by Jawahar Lal Nehru University, International Centre for Advanced Research and Studies, and G B Pant University, Pant Nagar, U.P. India. (online) 5-7 Feb 2021. Title: Information Security Management is Everybody's Business.
7. **Keynote speaker** at the International Conference on Network & Cryptology (NETCRYPT) 2020 organized by the School of Computer and Systems Sciences, Jawaharlal Nehru University (JNU), New Delhi, India, 4-6 Dec 2020. Title: Challenges and Current Research in Digital Text Steganography.
8. **Keynote speaker** at the 10th International Conference, CONFLUENCE-2020 on theme "Cloud Computing, Data Science & Engineering", 29-31 Jan 2020 at Amity University, Noida, India. Title: Interdisciplinary Cybersecurity Research.
9. **Invited speaker** at the First International Forum on Independence of Kazakhstan, Cultural Approaches, Modern Trends in Textile and Food Engineering, 10 Dec 2019 at M. Auezov South Kazakhstan State University, Kazakhstan.
10. **Keynote/Invited Speaker** at the International Virtual Conference on Big Data Security Challenges on 15th March 2019, organized by School of Information Technology and Engineering, Vellore Institute of Technology (VIT), India. Title: "Information Security Management."
11. **Panel speaker** at the Asian World Summit 5th Information Security Summit – Spotlight on Cloud, 17-18 May 2016, Swiss-Garden Hotel & Residences Kuala Lumpur. (Session "Simplifying the complexity of cloud migration.")
12. **Invited Speaker** (representing Malaysia) at the UNIW 2nd International Family Conference, 24-25 January 2015, Istanbul, Turkey. Organized by the Union of Non-Governmental Organizations of the Islamic World (UNIW). Paper title: "Globalization through ICT: Security Threats and Risks towards Family".
13. **Keynote Speaker** at the World Congress on Computing and Information Technology (WCIT) 2013 and The Second International Conference on Cyber Security, Cyber Peacefare and Digital Forensic (CyberSec2013), 4-5 March 2013, Kuala Lumpur, Malaysia

National level:

14. **Invited Speaker** at the Zetvest Data Risk Protection Day "Intergrating Cryptography for Advance Data Protection", presenting on "Technologies for Smart Future & Cybersecurity Threats", 25 June 2024, Cyberjaya, Malaysia.
15. **Keynote speaker** at PhD Research Colloquium, 1 Aug 2019 at Malaysia University of Science and Technology (MUST). Title: "Interdisciplinary Issues in Cybersecurity Research."
16. **Keynote Speaker**, the Pre-University Graduation and Excellence Award Ceremony (Majlis Anugerah Kecemerlangan dan Graduasi Prauniversiti) 2017, SMK Seri Serdang, Selangor, on 25 August 2017.

17. **Invited Speaker**, “*Psikologi dan IT: Media Sosial dan Kesan Terhadap Kesihatan dan Kesejahteraan Masyarakat*”, for Psychology and Counselling Week 2016, 11 May 2016, at Kolej Dar al-Hikmah, Kajang, Selangor.
18. **Keynote Speaker**, “*Globalisasi melalui ICT: Ancaman Keselamatan dan Risiko Terhadap Keluarga*” at the Seminar *Bicara Inspirasi Wanita dan Sains: Antara Perspektif dan Penglibatan* (WASAPP), 22 Aug 2015, Kolej Dar Al-Hikmah, Kajang.
19. **Invited Speaker**, Malaysian Cryptology and Information Security Lecture Series 2013, 4-5 July 2013, UPM Selangor, Malaysia. Organized by UPM & Malaysian Society for Cryptology Research (MSCR)
20. **Speaker** at the **Research and Writing Workshop** for KUIS lecturers, 21 April 2015, at the Faculty of Science and Information Technology, International Islamic University College Selangor (KUIS), Malaysia.
21. **Guest Speaker**, “Publishing with Impact, Ethically”, on 17 Oct 2014, at the College of Information Technology, Universiti Tenaga Nasional, Malaysia.
22. **Keynote speaker** at Seminar Guru Cemerlang Daerah Hulu Langat, titled “Menghadapi Cabaran Globalisasi dalam Dunia Pendidikan: ICT sebagai Alat Pemudahcaraan”, on 25 September 2014, at UPM.
23. **Invited Speaker** at Information Security Seminar 2014 at Politeknik Ungku Omar, Perak, 4 Sept 2014.
24. **Invited Speaker** at IT Seminar “Threats and Security in ICT”, at Politeknik Ungku Omar, Perak, 29 March 2013.
25. **Invited Speaker** at IT Seminar “Threats and Security in ICT”, at Politeknik Ungku Omar, Perak, 1 Nov 2012.
26. **Invited speaker**, “Current Teaching Method and ICT: A Necessity (*Kaedah Pengajaran Semasa dan Teknologi ICT: Satu Keperluan*)” at the People’s Islamic School Teachers Convention of Perak (*Konvensyen Guru Sekolah Agama Rakyat Negeri Perak*), organized by Badan Kebajikan Guru Sekolah Agama Rakyat Negeri Perak, 23 June 2007, in Tapah, Perak.

Interviews in Mass Media

International level:

1. Interviewed by **Nar TV**, a **Kazakhstan** TV station, 24 Dec 2019, about my visit to Kazakhstan and computer science education.
2. Interviewed by **TVT**, a premier TV station in **Turkey**, 2014, about risks of cyber threats to families.

National level:

3. Interviewed by **Utusan TV** on the topic “Pelesenan platform media sosial memudahkan kerajaan kawal selia masalah – Akademik”, 16 Dec 2024.
4. Interviewed by **Utusan TV** on the topic “Ketegasan kerajaan perangai jenayah siber tak sekat kebebasan bersuara – Akademik”, 21 Nov 2024.
5. Interviewed by **Utusan TV** on the topic “Masa sudah diberi, jenayah makin menjadi-jadi, adakah platform media sosial serius tangani jenayah dalam talian?”, 4 Nov 2024.
6. Interviewed by **Berita Harian** on the topic “Garis panduan baharu pelengkap peranan semua pihak”, 28 July 2024.
7. Interviewed live on **BernameaTV** on the the responsibilities of social media platform platforms towards users’ security and security measures that users can take to protect themselves (“Pengendali Media Sosial, Jangan Ambil Mudah!”), 24 July 2024.
8. Interviewed on **Agenda Awani, Astro Awani** on cyberbullying, the regulating steps and strategies by the government and various agencies (“Buli Siber Semakin Menjadi-jadi?”), 10 July 2024.
9. Invited panel for program **Malaysia Hari Ini** at **TV3**, live on 4 July 2024 speaking on protecting family from negative contents such as online solicitations, pornography, etc.
10. Live on **Malaysia Petang Ini** at **Bernamea TV**, on 3 July 2024 commenting on the new guidelines for information and network security.
11. Interviewed live on **Traxx FM**, 26 June 2024 on “Grooming: Spotting the Red Flags” in the What Matters segment, discussing on the legal definition of child grooming in Malaysia, the common methods, tactics and platforms used by predators to groom children, common red flags that might indicate a child is being groomed online, and how parents should monitor and control their children’s online activities.
12. Invited panel for program **Selamat Pagi Malaysia** at TV1 **RTM**, live on 9 June 2024 speaking on social media and family.

13. Invited panel for program **Cuit Sikit Jangan Sentap** at TV1 **RTM**, live on 18 May 2024 speaking on social media and children.
14. Invited panel for Kapsul “Medsos 13 Tahun” at **RTM**, 13 May 2024, speaking on controlling the use of social media among children below 13 years old.
15. Invited panel for *Dialog Tiga Penjuru* at **Astro Awani** on the topic of regulating the social media platforms (“*Kawal Selia Platform Media Sosial: Teliti, Perkemas*”), 14 Mar 2024.
16. Invited panel for **Fikrah** program at **TV1 (RTM)** on the topic “*Perpaduan Madani*”, live on 11 Oct 2023.
17. Invited panel for **Fikrah** program at **TV1 (RTM)** on the topic “*Ke mana Arah Madani?*”, recorded on 17 May 2023.
18. Appeared in **RTM Selamat Pagi Malaysia** slot on 26 Nov 2022, speaking about the community volunteer program by UPM students with autism children.
19. Interviewed by **Radio MAB** (Malaysian Association for the Blind) on “Cyber Security: The Importance for Early Education (Keselamatan Siber: kepentingan memberi pendidikan lebih awal)” aired on 2 April 2021.
20. Invited panel for **Selamat Pagi Malaysia** on TV1, on the topic “*Gajet: Manfaat dan Cabaran*”, 1 May 2020.
21. Panelist at the **Lensa IPT** program on **RTM** discussing students’ community program “*Handle It with Fun Online*”, 30 May 2020.
22. Panelist at the **Lensa IPT** program on **RTM** on the topic of “*Bakti Siswa dan Komuniti, Kami Tolak Perasuah*”, 3 Nov 2019.
23. Panelist at the **Fikrah** program on **TV1** on topic “*Negara Rahmah*”, recorded on 20 Aug 2019.
24. Appeared in ‘**Kafe Ahad**’ slot at **MetroTV** on 29 July 2018, speaking on the topic related to the dangers of pornography.
25. Appeared in **Berita TV9** on 9 Aug 2017, speaking on the dangers of pornography.
26. Invited panel in the ‘**Nasi Lemak Kopi O**’ program at **TV9**, with a topic on “Digital Pickpocket”, on 21 Jan 2017, at TV9, Sri Pentas, Kuala Lumpur
27. Panel for a **Talk Show** Program on **Capital TV** “*Persoalannya*” entitled “*Dunia Siber: Selamatkah kita?*”, 30 Aug 2016
28. Invited panel in the ‘**Keluarga di 9**’ Slot at **TV9**, with a topic on “Universiti Asmara”, 9 Jan 2008, at TV9, Sri Pentas, Kuala Lumpur

A. Newspaper/Magazine interviews

29. **Sinar Harian**, 8 Aug 2024 on Malaysia’s intention to develop a social media application for its citizen (“Bina media sosial sendiri, wajar atau tidak?”)
30. **Berita Harian**, 28 July 2024 on the effectiveness of the newly proposed guidelines to regulate social media providers in protecting the users.
31. Interviewed for **Berita RTM**, 9 June 2024 on the topic “Anak-anak ralit dengan media sosial jejas komunikasi keluarga”
32. Interviewed by **Harian Metro** on the topic related to the security of the PADU system (“*Adakah sistem PADU 'kebal'?*”), 5 Jan 2024.
<https://api.hmetro.com.my/mutakhir/2024/01/1047638/adakah-sistem-padu-kebal>
33. Interviewed by **Bernama** on the importance of Internet security education, entitled “Pentingnya Pendidikan Keselamatan Internet”, published on 21 May 2019.
34. Interviewed by **Sinar Harian** on the effects of pornography addiction among children, published on 28 Jan 2022.
35. Interviewed by **Harian Metro** on 24 July 2018, on the topic related to the dangers of pornography, entitled “Menonton Bahan Lucah Akan Ubah Bahan Kimia dalam Otak hingga Menyebabkan Ketagihan”, published on 29 July 2018.
36. Interviewed by **NST** on 24 Oct 2017 on the topic related to user personal data breach in Malaysia.
37. My comments on the topic related to e-wallet security was published in **Kosmo** in an article “*Transaksi e-Dompot hanya guna tablet, telefon pintar*” on 10 Jan 2018.
38. Interviewed by **Utusan Malaysia** on the topic “*Selamatkah aplikasi e-Wallet?*”, published on 6 Mar 2017.
39. Interviewed by **Harian Metro** on the topic “*Susulan Penyeluk Saku Digital: Bukan Mustahil untuk Klon*”, published on 20 Jan 2017.
40. Interviewed by **Harian Metro** on the topic “*Kad pendua curi identiti*”, published on 7 Feb 2017.
41. Interviewed by **Harian Metro** on the topic “*Lindungi Telefon Bimbit Anda*”, published on 24 Jan 2017.

42. Interviewed by **Sinar Harian** on the topic related to the dangers of pornography, entitled “Bahaya anak kecil guna gajet” and “Tonton pornografi permulaan kepada zina”, published on 31 July 2017.
43. Interviewed by **Harian Metro**, advising parents to be wary and constantly monitor kids use of Internet to protect them from negative influences, published on 23 Oct 2019.
44. Interviewed by **Aniqah** magazine on the topic “Preparing psychology to face birthing moment (*Mempersiapkan Psikologi Menghadapi Saat Bersalin*)”, 10 March 2008.
45. Interviewed by **Iman** magazine on the topic “*Ku Abadikan Cinta...*” (the meaning of love in Islam), 21 March 2013.

As Speaker at Seminars/Forums

1. Invited Speaker at the Zetvest Data Risk Protection Day “Integrating Cryptography for Advance Data Protection”, presenting on “Technologies For Smart Future & Cybersecurity Threats”, 25 June 2024, Cyberjaya, Malaysia.
2. Speaker at the Webinar “ICT: *Peranan, Etika dan Keselamatan dalam Kesepaduan Nasional*”, 23 April 2024, Politeknik Ungku Omar, Ipoh, Perak.
3. Speaker at the Forum *Sekeluarga Tolak Pornografi* (SToP) organized by PIBG Sekolah Precint 11(1) Putrajaya, 20 Aug 2023.
4. Forum panelist at the *Seminar Pendidikan Madani* on “*Pembinaan Karamah Insaniah Teras Pembangunan Bangsa Malaysia*”, pada 30 September 2023, Institut Pendidikan Guru (IPG) Kampus Ipoh, Perak, organized by WADAH Negeri Perak.
5. Speaker at the Seminar *Sekeluarga Tolak Pornografi* (SToP) organized by SALWA WADAH Sabah and LPPKN, 22 Jan 2022 at Kota Kinabalu, Sabah.
6. Speaker at the Program Ilmu Keluarga@LPPK Siri 1/2022 “Mama, Papa: Cinta Pertama Kami” “Gajet Biar Bertempat...”, organized by LPPKN Negeri Sembilan, 26 Jan 2022 at Seremban, Negeri Sembilan.
7. Speaker on “Secure your information, protect yourself”, organized by the Faculty of Medicine and Health Sciences UPM, 5 Oct 2021 (Zoom).
8. Panelist at the National Mental Health Webinar, titled “*Kenapa Susah Tinggalkan Ketagihan?*”, 23 September 2021 (online), organized by Majlis Hewi Kebangsaan (MHK) Persatuan Kebangsaan Pelajar Islam Malaysia (PKPIM) dan Pusat Jaringan Komuniti (COMNET) Universiti Selangor.
9. Speaker on “Security in the Cyber World (Keselamatan Di Alam Maya)” at the Computing Program at School with students of SMK Seri Indah, Serdang, Selangor, 4 Sept 2021, organized by FSKTM UPM.
10. Panelist in the Parenting Seminar *Didik Anak Mengikut Zaman “Oh Anak Inilah Zaman Mu”*, organized by Persatuan Taska Negeri Selangor (PTNS) and LPPKN, 28 Aug 2021.
11. Speaker at the Young Leaders Convention 2021: Women Empowerment (*Konvensyen Pemimpin Muda 2021: Pemerdayaan Wanita*) organized by the Ministry of Women and Family Development Malaysia (KPWKM), 16-18 Aug 2021.
12. Panelist in the Fathers Forum 2021 for the launching of *Pertubuhan Pemberdayaan Bapa Penyayang*, 19 June 2021.
13. Moderator for the Webinar “High-Impact Educational Practices (HIEPs)”, 23 June 2021, organized by CADe UPM.
14. Speaker in the *Solidariti Warga dan Aspirasi Keamanan Sejangat*, a program gathering NGOs from various faiths, backgrounds and cultures to commemorate the Palestinian struggles, 29 May 2020.
15. Panelist in the Program Bual Bicara Akademi Keluarga Sejahtera, “*Salahkah Saya Ada Media Sosial?*”, organized by Family Wellbeing Sdn. Bhd., 18 Feb 2021 (FB Live).
16. Panelist in the Seminar *Didik Anak Mengikut Zaman “Oh Anak Inilah Zaman Mu”*, organized by Persatuan Taska Negeri Selangor (PTNS), 20 Mar 2021.
17. Speaker at the *Kursus Profesionalisme Guru Bimbingan & Kaunseling Sekolah Menengah Daerah Bangsar, KL, “Kawalan Penggunaan dan Ketagihan Gajet”*, 13 April 2021 (Google Meet).
18. Moderator at the International Seminar on Thought of Dr. Mohammad Natsir, pada Sabtu 17 April 2021 (Zoom).
19. Panel Forum Pengguna Arif Selangkah Kehadapan, “Kaedah Mengawal Gajet: Apa Peranan Kita?”, 28 Nov 2020. Anjuran Angkatan Belia Islam Malaysia (ABIM) Negeri Selangor dengan kerjasama Jawatankuasa Tetap Hal Ehwal Pengguna Negeri Selangor.
20. Penceramah di Sesi Perkongsian Kepentingan dan Kerahsiaan Data, anjuran Fakulti Perubatan dan Sains Kesihatan (FPSK), 26 November 2020, secara maya (Zoom).
21. Moderator Forum “University for Society” pada 6 Okt 2020 sempena Bulan Pendidik UPM 2020, anjuran Pusat Pembangunan Akademik UPM.

22. Penceramah di Bengkel Reinforcing Cocurriculum for Millenials (RCFM) 2020 anjuran Pusat Kecemerlangan MARA, 7-10 Sep 2020.
23. Panelis Forum "Ethics in Online Learning", 10 Jun 2020, Latihan Pembangunan Profesional Berterusan (CPD) online anjuran CADe UPM.
24. Panelist in Online Talk Facts & Analysis: "*Keluarga Seimbang dan Sejahtera, Tangani Pandemik Bersama*", 23 April 2020
25. Panelist in online *Madrasah Ramadan* MAWAR-YADIM on "*Gajet dan PKP - Kawan atau Lawan*", 22 May 2020.
26. Panelist in Online Forum "Ethics in Online Learning", 10 June 2020, Online Continuous Professional Development Training by CADe UPM.
27. Panelist in Online Forum on "Seni dan Sains Kebapaan" in conjunction with the National Father's Day 2020, 22 June 2020, organized by LPPKN.
28. Invited to speak at the Conversation Club at StudyOn, an education centre for learning English in Shymkent, Kazakhstan, 16 Dec 2019.
29. Speaker at the *Keluarga Mahabbah* Program on "*Kenali Privasi Si Cilik Anda*" at Tadika Permata Cinta Semenyih, 3 Nov 2019, organized by students of CPE3203 Parents Consultation, Bachelor of Education (Guidance and Counselling) UPM in collaboration with Programming Unconditional Affection and Satisfaction (PUAS) Sdn. Bhd. and Wadah Pencerdasan Umat Malaysia (WADAH).
30. Speaker at the Astaka Bicara Program on "*Media Sosial dalam Kerjaya dan Keluarga: Erat atau Retak?*", organized by Kementerian Air, Tanah dan Sumber Asli (KATS), 25 September 2019 at Putrajaya.
31. Panelist at *Forum Pengukuhan Nilai Kekeluargaan dalam Menangani Isu Sosial Sempena Sambutan Hari Ibu Bapa Kebangsaan (HIBK) 2019* Peringkat Wilayah Persekutuan Kuala Lumpur, organized by LPPKN Wilayah Persekutuan Kuala Lumpur, 19 Ogos 2019, at the Institut Sosial Malaysia.
32. Panelist at *Forum Keibubapaan Kreatif Mendepani Cabaran Alaf Baru Sempena Sambutan Hari Ibu Bapa Kebangsaan (HIBK) 2019*, organized by LPPKN, 13 Julai 2019, at UPM Serdang, titled "*Keselamatan Siber: Peranan Keluarga dan Masyarakat*".
33. Speaker at the *Bual Bicara: Fitnah Siber* in conjunction with Legal Week 6.0 at Kolej Universiti Islam Antarabangsa Selangor (KUIS), 31 July 2019.
34. Speaker at the *Wacana Ramadan 1440H bersama YAB Dato' Seri Dr. Wan Azizah Wan Ismail, Timbalan Perdana Menteri Malaysia*, titled "Gaya Hidup Sihat di Bulan Ramadan", at Kampung Pandan, Kuala Lumpur, 25 May 2019.
35. Speaker at the *Seminar Kekeluargaan Sekeluarga Tolak Pornografi (SToP)* at UiTM Melaka, 24 April 2019.
36. Speaker at the *Seminar Kemahiran Keibubapaan*, entitled "*Kelestarian Keluarga dan Komuniti dalam Era Teknologi Digital*", 7 April 2019, at Putrajaya Holdings. Organized by Putrajaya Holdings in collaboration with Department of Education Putrajaya, *Majlis Permuafakatan PIBG Putrajaya* and *Majlis Perwakilan Penduduk WP Putrajaya*.
37. Speaker at the *Wacana Ilmiah Siri 2.0* with students of Uniti College Port Dickson, 20 Feb 2019, entitled "*Bahana Penyalahgunaan Teknologi dan Internet*."
38. Panelist at the *Seminar Lindungi Diri dan Keluarga "Pedofilia, Pornografi dan Jenayah Siber"*, 23 Feb 2019, at Universiti Malaysia Terengganu.
39. Speaker at the Bicara Santai (title: "Sekeluarga Tolak Pornografi (SToP)") in conjunction with Bulan Keluarga Kebangsaan 2018, on 3 Nov 2018 at the Pusat Keluarga LPPKN Seremban 2 Negeri Sembilan. Organized by LPPKN, and officiated by YAB Deputy Prime Minister Malaysia cum Minister for Women and Family Development (KPWKM).
40. Speaker at the Seminar Keibubapaan "Sekeluarga Tolak Pornografi (SToP)" on 29 Sept 2018 at the Pusat Dakwah Islamiyah Paroi, Negeri Sembilan. Organized by ABIM and WADAH Negeri Sembilan, and officiated by YB Tuan Eddin Syazlee bin Shith, Deputy Minister Multimedia and Communication Malaysia.
41. Speaker at the SToP Seminar titled "*SToP: Sekeluarga Tolak Pornografi*", 17 August 2018, to community at the Garaj Belia MBSA, Pangsapuri Rimba Jaya, Shah Alam, Selangor.
42. Panelist at Forum Mahasiswa "*Mahasiswa Pemangkin Kebitaraan Negara*", organized by World Assembly of Muslim Youth (WAMY), National Union of Malaysian Muslim Students (PKPIM) and Co-Curriculum and Student Development Centre UPM, on 29 May 2018, at Masjid Hasanah Bangi.
43. Invited as jury and trainer for dakwah infographic design competition, 30-31 March 2018, at Kolej Universiti Islam Antarabangsa Selangor (KUIS), as part of Program Latihan Pendakwah Muda (MyDaie) organized by World Assembly of Muslim Youth (WAMY) Malaysia in cooperation with KUIS, Ministry of Education Malaysia, *Gabungan Dakwah Malaysia* and Islamic Dakwah Foundation Malaysia (YADIM).

44. Speaker at the Kempen Sekeluarga Tolak Pornografi (SToP), pada 31 March 2018, at the Megawati Hall, Official Residence of Menteri Besar Selangor, Shah Alam, organized by WADAH Selangor and Persatuan Taska Negeri Selangor (PTNS) in cooperation with PEKAWANIS.
45. Panelist at Forum Keselamatan Media Sosial: Be Social, Be Safe 24 March 2018 at the Auditorium Radin Umar UPM, organized by Ministry of Women, Family and Community Development (KPWKM) in cooperation with Co-Curriculum and Student Development Centre UPM.
46. Speaker at the Ibadah and Akhlaq Enhancement Campaign 2017/2018 on 9 Mar 2018, at International Islamic School Malaysia (Kuantan), Pahang on the topic of "Using Social Media Responsibly".
47. Speaker at the *Bengkel Pelan Pengajaran Modul Pendidikan Keselamatan Keluarga dan Anak* (PEKA) 2018 on the topic of "Child Online Protection", on 21 Feb 2018, at the Hotel Flamingo, Ampang Selangor. The program was organized by the National Population and Family Development Board (LPPKN) (Ministry of Women, Family and Community Development Malaysia).
48. Speaker at the *Wacana Ilmiah* titled "*SToP: Sekeluarga Tolak Pornografi*", 25 Dec 2017, in Sekolah Rendah Islam Indera Mahkota, Kuantan, Pahang.
49. Panelist at Family and Marriage Causelling Seminar titled "*Sokongan Komuniti dalam Melestarikan Perkahwinan dan Keluarga*", 9 Dec 2017, at the Faculty of Education UKM. (I focussed on issues and effects of cyber security and social media on family and marriage.)
50. Moderator at the parallel session on Kepedulian Kebejatan Sosial Keluarga at the Town Hall Kepedulian Kebejatan Sosial Peringkat KPWKM organized by Ministry of Women, Family and Community Development (KPWKM) via Social Institute of Malaysia (ISM) on 5 Dec 2017, at Social Institute of Malaysia, Kuala Lumpur.
51. Speaker at the Kumon Centre Kumon Bangi, Seksyen 4, Bandar Baru Bangi, Selangor, on 4 Nov 2017 titled "*SToP: Sekeluarga Tolak Pornografi*".
52. Speaker at the *Seminar Teknik Jauhi Bahan Lucah* in Seremban, Negeri Sembilan, on 12 Nov 2017 titled "*SToP: Sekeluarga Tolak Pornografi*".
53. Speaker at the *Program Kesedaran Pencegahan Penyalahgunaan Dadah dan Pornografi dalam Keluarga* at SK Sg Soi Kuantan, Pahang, on 28 Oct 2017 titled "*SToP: Sekeluarga Tolak Pornografi*".
54. Speaker at Sekolah Menengah Islam ABIM Sg Ramal, Kajang, Selangor, on 23 Oct 2017 titled "*SToP: Sekeluarga Tolak Pornografi*".
55. Speaker at the Seminar Pendidikan Kekeluargaan Islam, titled "Cabaran Media Baharu dalam Keluarga Muslim", 30 Sept 2017, in Terengganu.
56. Speaker at the *Wacana Melindungi Keluarga daripada Bahaya Pornografi* titled "*SToP: Sekeluarga Tolak Pornografi*", 10 Sept 2017, at Masjid Al-Ubudiah, Seksyen 19, Shah Alam, Selangor.
57. Speaker at Surau Al-Kauthar, Bandar Baru Bangi, Selangor titled "*SToP: Sekeluarga Tolak Pornografi*", 13 August 2017.
58. Panelist for SToP Forum titled "*Sekeluarga Tolak Pornografi: Bahaya dan Kesan Pornografi kepada Institusi Kekeluargaan Islam*", 28 July 2017, at Kompleks Pendidikan Al-Hikmah, Alor Setar, Kedah.
59. Speaker at the SToP Seminar titled "*SToP: Sekeluarga Tolak Pornografi*", 15 July 2017, in Kangar, Perlis.
60. Speaker at the Parenting Program titled "*SToP: Sekeluarga Tolak Pornografi*", 7 May 2017, at Masjid Abdul Rahman Auf, Puchong, Selangor.
61. Speaker at the SToP Seminar titled "*SToP: Sekeluarga Tolak Pornografi*", 6 May 2017, at Kompleks Belia Batu Uban, Gelugor, Pulau Pinang, organized by the
62. Panelist for Program *Perkampungan Menara Gading Kebangsaan* (PMGK) 2017, titled "*Memberdaya Tekad Transformatif: Memberdaya Kebitaraan Mahasiswa Mukmin*", organized by the National Union of Malaysian Muslim Students (PKPIM), 3 April 2017, at Unisel Bestari Jaya, Selangor
63. Speaker at the ABIM Bangi *di Hatiku* program titled "*SToP: Sekeluarga Tolak Pornografi*", 1 April 2017, in Bangi, Selangor
64. Panelist for Program *Belia, Kesukarelawanan dan Kepertanggungjawaban Terhadap Media Sosial*, titled "*Kepertanggungjawaban Remaja terhadap Media Sosial: No Wifi, No Life*", 25 Mar 2017, at Shah Alam, Selangor
65. Speaker titled "*SToP: Sekeluarga Tolak Pornografi*", 24 Mar 2017, at Hospital Pakar Al Islam, Kuala Lumpur
66. Speaker at the Permata Pintar program titled "*Bahaya Pornografi*", 22 Mar 2017, at Pusat PERMATApintar Negara, Selangor
67. Speaker at the 22th Al Firdaus Klang Parenting Day, titled "*SToP: Sekeluarga Tolak Pornografi*", 5 Mar 2017, at Masjid As-Saadah, Bandar Sultan Suleiman, Pelabuhan Klang, Selangor

68. Speaker at the *Latihan Asas Aktivis Masyarakat (LASKAR)* titled “Keselamatan Penggunaan Media Sosial dalam Kalangan Remaja”, 18 Feb 2017, in Bangi, Selangor, organized by the ActiveFast Center
69. Speaker at the *Konvensyen Pendidikan Al-Hikmah* titled “Bagaimana Menghadapi Generasi Y, Z, Alpha”, 11 Feb 2017, in Kajang, Selangor, organized by the Yayasan Takmir Pendidikan
70. Speaker, “Isteri sebagai Pewaris Ilmu: Peranan Pendidik” at *Seminar Sehari “Dekati Saya Supermom”*, 29 July 2015, Kuala Lumpur, organized by National Population and Family Development Board (LPPKN).
71. Speaker at the *Seminar Pengurusan Cinta* titled “Peranan Individu dalam Membina Keluarga Mawaddah wa Rahmah”, 19 Dec 2013, at Universiti Tun Hussein Onn Malaysia (UTHM), Batu Pahat, Johor
72. Panelist for Program *Perkampungan Menara Gading Kebangsaan 2013 (PMGK ‘13)*, titled Forum Ilmiah: “Kebitaraan Mahasiswa Teras Keunggulan Negara”, organized by the National Union of Malaysian Muslim Students (PKPIM), 13 April 2013, at Universiti Kebangsaan Malaysia (UKM)
73. Panelist at the Parenting Education Forum (Forum Pendidikan Keibubapaan), 29 Sept 2012 at Kolej Dar al-Hikmah, Kajang, Selangor
74. Speaker for a motivation session with new students at the UPM Minggu Perkasa Putra, 4 Sept 2012
75. Moderator at “*Seminar Bangsa Malaysia: Antara Aspirasi dan Realiti*”, organized by Wadah, 15 Sept 2012, Kolej Dar al-Hikmah, Kajang, Selangor
76. Moderator, *Wacana Pemberdayaan & Kepimpinan Wanita* (Discourse on Women Empowerment and Leadership), organized by ABIM, 20 May 2012, Raja Tun Uda Library, Shah Alam, Selangor
77. Speaker at the “*Seminar Membina Keluarga Sejahtera dalam Karnival Keluarga Sakinah 2011*”, 12 Feb 2011, Kota Kinabalu, Sabah, organized by ABIM Sabah and the Sabah State Government. (Title: “Creative Parenting”).
78. Instructor for IT literacy to senior citizens and pensioners, University of the Third Age (U3A) Program, 10 Apr – 26 June 2008, at the Institute of Gerontology UPM
79. Speaker at the Parenting Program, organized by ABIM Serdang, 20 July 2008, in Serdang, Selangor
80. Speaker at the Motivational Program in conjunction with Visit from Al-Wardah Group (*Program Motivasi Sempena Lawatan Kerja Perkumpulan Al-Wardah*) from Pekan, Pahang, organized by Yayasan Pembangunan Ekonomi Islam Malaysia (YaPEIM), 18 July 2008, at YaPEIM Building, Kuala Lumpur
81. Panelist in the Forum “*Universiti sebagai Wajah Peradaban*” at the Konvensyen Pelajar Islam Kebangsaan, organized by Persatuan Kebangsaan Pelajar Islam Malaysia (PKPIM), July 2007, at the Malaysian-France Institute UniKL, Bangi
82. Panelist in the Forum “*Pembangunan Belia dalam Lima Dekad: Ke arah mana?*” at the National Youth Officer Convention (*Konvensyen Pegawai Belia Kebangsaan*), organized by Ministry of Youth and Sports Malaysia, 10 Feb 2008, at Vistana Hotel, Kuala Lumpur

Involvement at International level:

1. Committee Member/Expert, ISO/IEC JTC 1/WG11 Smart Cities (International level) (starting 28 July 2017).
2. External Member, Selection Committee for Associate Professor (Computer Science), Monash University Malaysia (2016-to date)
3. High Advisory Board Member, **International Family Institute** (based in Istanbul, Turkey), 2017-2021
4. Journal article reviewer (31 articles)
5. Conference article reviewer (22 articles)
6. Book chapter reviewer for “Security in Computing and Networking – Part 1”, UTM Press (May 2014)

National level:

1. Board of Directors, National Population and Family Development Board (LPPKN) (Ministry of Women, Family and Community Development Malaysia), 1 April 2019 – 31 Mac 2021.
2. Committee Member/Expert, DSM/NMC/ISC-G/WG5-2 Security Technologies (Jabatan Standard Malaysia), starting Jan 2017.
3. Chairman, Audit Committee, National Population and Family Development Board (LPPKN), 2019-2021.

4. Committee Member, Research Committee, National Population and Family Development Board (LPPKN), 2019-2021.
5. Committee member, Education and Human Development Committee, Selangor Foundation (*JK Pendidikan dan Pembangunan Insan Yayasan Selangor*), starting Oct 2018.
6. Evaluator of Applications for Research Excellence Consortium (*Konsortium Kecemerlangan Penyelidikan, KKP*) 2020, Ministry of Higher Education Malaysia. Oct 2020.
7. Protem Committee, Information Security Professional Association of Malaysia (ISPA.my), 2010

AWARDS

Distinguished Awards

1. **Young Scientist Award** at the International Conference on Network & Cryptology (NETCRYPT) 2020, awarded by the Jawaharlal Nehru University (JNU), New Delhi, India.
2. **MIMOS Prestigious Award 2015**, awarded to Nur Izura Udzir for the supervision of the doctoral thesis by Dr. S.M Warusia Mohamed S.M.M Yassin entitled "An Integrated Anomaly Intrusion Detection Scheme using Statistical, Hybridized Classifiers and Signature Approach."
3. **Anugerah Siswi Cemerlang 1995** (*Excellent Female Student Award 1995*) from Persatuan Siswazah Wanita Malaysia (*Women Graduates Association of Malaysia*).

International

1. **Silver Award** at the International Innovation & Design in Library & Information Science Competition 2019 (InDeLib), "Access Control Model Based on Trust, Purpose, and Role For Protecting the Privacy" by Mohd Rafiz Salji, **Nur Izura Udzir**, Mohd Izuan Hafez Ninggal, Nor Fazlida Mohd. Sani, and Hamidah Ibrahim.
2. **Best Paper Award** at the International Conference on Innovations in Computer Science and Engineering (iCiCSE2018). Paper title: "A Super-Peer Approach for a Scalable Collaborative Intrusion Detection Network (CIDN)", Authors: Yousef Bakhladghi, **Nur Izura Udzir**, Azizol Abdullah, and Nor Fazlida Mohd Sani.
3. **Best Paper Award** at the International Journal of Computer Science and Engineering (IJCSE) 2015, International Academy of Science, Engineering and Technology (IASET). Paper title: Review of DNA and Pseudo DNA Cryptography, Authors: Auday H. Saeed Al-Wattar, Ramlan Mahmod, Zuriati Ahmad Zukarnain and **Nur Izura Udzir**.
4. **Best Paper Award** at the International Symposium on Biometrics and Security Technologies (ISBAST) 2014. Paper title: Signature-Based Anomaly Detection Scheme for Better Intrusion Detection, Authors: Warusia Yassin, **Nur Izura Udzir**, Azizol Abdullah, Mohd Taufik Abdullah, Hazura Zulzalil.
5. **Best Paper Award** at the 7th International Conference on IT in Asia (CITA'11). Paper title: Intrusion Detection based on K-Means Clustering and Naïve Bayes Classification, Authors: W. Yasin, Z. Muda, M.N. Sulaiman, **N.I. Udzir**.
6. **Best Paper Award**, at the 11th International Conference on Information Integration and Web-based Applications & Services 2009 (iiWAS 2009). Paper title: Garbage Collection in LINDACAP, (Senior author): **Nur Izura Udzir**, Sileshi Demesie, Hamidah Ibrahim.
7. **Best Paper Award**, at the 3rd Malaysian Software Engineering Conference 2007 (MySEC'07). Paper title: Checking Integrity Constraints in Distributed Databases with Support Tests, Authors: Ali Amer Alwan, Hamidah Ibrahim, **Nur Izura Udzir**.
8. **Best Student Paper Award**, at the First Regional Conference on Computational Science and Technologies (RCCST 2007). Paper title: Analysis of Integrity Tests for Checking Integrity Constraints in a Distributed Database., Authors: Ali Amer Alwan, Hamidah Ibrahim, **Nur Izura Udzir**.
9. **Silver Medal**, Putra InnoCreative Poster Competition, International Putra InnoCreative Carnival in Teaching and Learning 2023 (I-PICTL 2023), 14-16 Nov 2023, UPM. "Aplikasi Ilmu Kembara melalui Perkhemahan Maya", Nur Izura Udzir, Mohammad Omar Sharifuddin Hishamudin, Mohamad Razizi Midin dan Mohd Syawal Sauti.
10. **Silver Medal**, Putra InnoCreative Poster Competition, International Putra InnoCreative Carnival in Teaching and Learning 2022 (PICTL 2022), 25-28 Oct 2022, UPM. "Mahasiswa UPM Hurlurkan Tangan: Aktiviti Pembangunan di Pulau Songsong, Kampung Sungai Udang, Yan dan Kampung Singkir Badong, Merbok", Siti Suriawati Isa, Omrah Hassan@Hussin, Nur Izura Udzir, Mohamad Affendy Mahmud, Nur Shazleen Ilyana Sharifuddin & Mohd Nizam Saroji.

11. **Gold Medal** at the 4th International Putra InnoCreative Carnival in Teaching and Learning (PicTL 2021), 21 - 28 October 2021. Nur Izura Udzir, Siti Suriawati Isa, Mohd Syawal Sauti, Bukryman Sabri, Muhamad Zulwaqa' Muhamad Zamri, Mohd Isnain Ali⁶, Farah Dayana Jamaluddin, Transformasi Pelaksanaan Kelas Kokurikulum Berkredit Dalam Norma Baharu.
12. **Gold Medal** at the 4th International Putra InnoCreative Carnival in Teaching and Learning (PicTL 2021), 21 - 28 October 2021. Bukryman Sabri, Nur Izura Udzir, Siti Suriawati Isa, Mohd Isnain Ali, Nur Shazleen Ilyana Sharifuddin, Noor Habibah Mohamed Daud, Mohd Syawal Sauti, Muhamad Zulwaqa Muhamad Zamri, Farah Dayana Jamaluddin, Mohd Zali Hamid, Muhammad Aisamuddin Ahmad, Raudhatul Athirah Yakob & Nur Sofea Qistina Zulkarnain, eCORE: Sinergi Berimpak Melalui Platform Dalam Talian Program Kursus Kokurikulum Berkredit.
13. **Gold Medal** at the 4th International Putra InnoCreative Carnival in Teaching and Learning (PicTL 2021), 21 - 28 October 2021. Bukryman Sabri, Nur Izura Udzir, Siti Suriawati Isa, Mohd Isnain Ali, Nur Shazleen Ilyana Sharifuddin, Noor Habibah Mohamed Daud, Mohd Syawal Sauti, Muhamad Zulwaqa Muhamad Zamri, Farah Dayana Jamaluddin, Mohd Zali Hamid, Muhammad Aisamuddin Ahmad, Raudhatul Athirah Yakob, CORAL: Aplikasi Kemahiran Insaniah CTPS, EM, TS, KK Melalui Pendekatan Dual-PBL Dalam Ko-Kurikulum Berkredit.
14. **Silver Medal** at the 4th International Putra InnoCreative Carnival in Teaching and Learning (PicTL 2021), 21 - 28 October 2021. Nur Izura Udzir, Farah Alia Fauzi, Johar Md Lajis, Bukryman Sabri, Siti Suriawati Isa, Menyemarakkan Kesukarelawanan Komuniti Melalui Projek Tandas Bersih.
15. **Silver Medal** at the 4th International Putra InnoCreative Carnival in Teaching and Learning (PicTL 2021), 21 - 28 October 2021. Mohd Isnain Ali, Siti Suriawati Isa, Nur Izura Udzir, Bukryman Sabri, Nur Shazleen Ilyana Sharifuddin, Muhamad Zulwaqa' Muhamad Zamri, Raudhatul Athirah Yakob & Nur Sofea Qistina Zulkarnain, Aktiviti Pembangunan Sahsiah Pelajar Menggunakan Kaedah Webinar Dalam Talian: Elemen Kreatif Bagi Menarik Minat Para Peserta.
16. **Silver Medal** at the 4th International Putra InnoCreative Carnival in Teaching and Learning (PicTL 2021), 21 - 28 October 2021. Rahmawati Nurdin, Nur Izura Udzir, Johar Md Lajis, Bukryman Sabri, Siti Suriawati Isa, Comfort Our Youth (COYOUTH): Memperkasa Pendidikan Sekolah Alternatif Melalui Kesukarelawanan.
17. **Silver Medal** at the 4th International Putra InnoCreative Carnival in Teaching and Learning (PicTL 2021), 21 - 28 October 2021. Shazila Abdul Rahim, Siti Suriawati Isa, Nur Izura Udzir, Mohd Syawal Sayuti, Farah Dayana Jamaluddin, Muhamad Zulwaqa' Muhamad Zamri, Muhammad Aisamuddin Ahmad & Mohd Isnain Ali, Kelas Pembangunan Kesukarelawanan Secara Dalam Talian: Program Komuniti Kempen Kesedaran Dan Ihsan Terhadap Haiwan.
18. **Silver Medal** at the 4th International Putra InnoCreative Carnival in Teaching and Learning (PicTL 2021), 21 - 28 October 2021. Mohd Firdaus Abdullah, Nur Izura Udzir, Wan Zaharudin Wan Abdullah, Chee Chen Soon, Mohd Syawal Sauti, Farah Dayana Jamaluddin & Muhamad Zulwaqa' Muhamad Zamri, Supporting National Athletes Through the Malaysian Wheelchair Basketball Federation's Fundraising Program.
19. **Gold Medal** at the International Putra InnoCreative Poster Competition, International Putra InnoCreative Carnival in Teaching and Learning (PicTL 2020), 22-30 October 2020. Bukryman Sabri, Nur Izura Udzir, Siti Suriawati Isa, Mohd Isnain Ali, Mohd Syawal Sauti & Muhamad Zulwaqa Muhamad Zamri, INOMOS: Aplikasi Kemahiran Insaniah CTPS Melalui PBL Dalam Ko-Kurikulum Berkredit.
20. **Gold Medal** at the International Putra InnoCreative Poster Competition, International Putra InnoCreative Carnival in Teaching and Learning (PicTL 2020), 22-30 October 2020. Bukryman Sabri, Nur Izura Udzir, Siti Suriawati Isa, Mohd Isnain Ali, Mohd Syawal Sauti & Muhamad Zulwaqa Muhamad Zamri, Siswa@Kampung: Sinergi Berimpak Komuniti Dan Industri Melalui Platform Ko-Kurikulum Berkredit.
21. **Silver Medal** at the International Putra InnoCreative Poster Competition, International Putra InnoCreative Carnival in Teaching and Learning (PicTL 2020), 22-30 October 2020. Iskandar Ishak, Lee Jin Wee, Nur Izura Udzir, Mohd Syawal Sauti, Mohd Isnain Ali & Siti Suriawati Isa, Fasiweb: A Web-Based Facilitator Evaluation System Prototype For Improving Co-Curricular Teaching Management In University.

National

1. Bronze Medal, PECIPTA'13, Global Monitoring and Surveillance System (Researchers: **Nur Izura Udzir**, Ali Dehghantanha, and Farid Daryabar)

2. Bronze Medal, Malaysia Technology Expo (MTE) 2013, Global Monitoring and Surveillance System (Researchers: **Nur Izura Udzir**, Ali Dehghantanha, Ramlan Mahmud and Farid Daryabar)
3. Silver Medal, Malaysia Technology Expo (MTE) 2013, An Encoding Scheme Based on Fractional Numbers for Querying and Updating XML Data (Researchers: Hamidah Ibrahim, Merhdad Mirabi, **Nur Izura Udzir**, Ali Mamat)
4. Bronze Medal, Malaysia Innovation Expo (MIExpo) 2013, "HideT" (Researchers: Ramlan Mahmud, Nuur Alifah Roslan and **Nur Izura Udzir**)
5. Silver Medal, R&D Invention and Research Exhibition (PRPI) 2012, A Framework for Forensic Investigation of Symbian Mobile O.S (Researchers: **Nur Izura Udzir**, Ali Dehghantanha, Ramlan Mahmud and Farid Daryabar)
6. Gold Medal, R&D Invention and Research Exhibition (PRPI) 2012, An Encoding Scheme Based on Fractional Number for Querying and Updating XML Data (Researchers: Meghdad Mirabi, Hamidah Ibrahim, **Nur Izura Udzir**, and Ali Mamat)
7. Bronze Medal, R&D Invention and Research Exhibition (PRPI) 2012, A Dynamic Compressed Accessibility Map for Secure XML Querying and Updating (Researchers: Meghdad Mirabi, Hamidah Ibrahim, **Nur Izura Udzir**, and Ali Mamat)
8. Silver Medal, R&D Invention and Research Exhibition (PRPI) 2012, Investigating Phishing Attacks (Researchers: Farhood Norouzizadeh Dezfouli, Ali Dehghantanha and **Nur Izura Udzir**)
9. Bronze Medal, R&D Invention and Research Exhibition (PRPI) 2012, Investigation of Malware Defence and Detection Techniques (Researchers: Farid Daryabar, Ali Dehghantanha and **Nur Izura Udzir**)

University

1. Won medals at **R&D Invention and Research Exhibition**: 4 Golds, 7 Silvers, 11 Bronzes
2. Anugerah Setia Putra 2019, for 20 years service at UPM.
3. Anugerah Perkhidmatan Cemerlang (*Excellent Service Award*) UPM for 2012 and 2017.
4. Sijil Anugerah Perkhidmatan Cemerlang (Certificate of *Excellent Service Award*) UPM every year since 2009.
5. Anugerah Pengajar Cemerlang (*Excellent Teacher Award*) FSKTM 2008, 2009, 2010, 2011, 2014, 2016, 2017, 2018, 2019.
6. Anugerah Penerbitan Penyelidik Cemerlang (*Excellent Research Publication Award*) FSKTM 2013.
7. Anugerah Jalinan Industri Cemerlang (*Excellent Industrial Linkages Award*) FSKTM 2014.
8. Anugerah Sukarelawan Terbilang (*Outstanding Volunteer Award*) FSKTM 2013.
9. Nominated for the Vice Chancellor Fellowship Award (*Anugerah Fellowship Naib Canselor*) 2017 for the Excellent Teacher Award category.

PROFESSIONAL SERVICES

International level:

1. **AUN (ASEAN University Network) Dx Standard Committee** Member – Information Security Management
2. **International Organization for Standardization (ISO)** Committee Member/Expert for ISO/IEC JTC 1/WG11 Smart Cities (International level).
3. Invited as a **Visiting Lecturer** to lecture and conduct scientific consultations for master students on specialty Information Security Management at Auezov South Kazakhstan University (SKU), for four (4) weeks from 23 Nov - 25 Dec 2020.
4. Invited as a **Visiting Lecturer/Foreign Scientist** to lecture and conduct scientific consultations for master students on specialty Information Security Management at M. Auezov South Kazakhstan State University (SKSU), for four (4) weeks from 2 – 30 Dec 2019.
5. Invited as a **Visiting Lecturer/Foreign Scientist** to conduct lectures and scientific consultations for master students at M. Auezov South Kazakhstan State University (SKSU), Kazakhstan, 29 Oct – 10 Nov 2014.
6. Involved in the Working Group/Forum Group Discussion of **ASEAN Digital Security and Interoperability Standard**, for Supporting Implementation of COVID-19 Recovery Plan in Southeast Asia (ITTP-COVID19).
7. Invited speaker at the Parasat College, Shymkent, Kazakhstan on "The Use of ICT in Education", 24 Dec 2019.

8. **Project Proposal Reviewer** for the Netherlands Organisation for Scientific Research NWO, and the Dutch Ministry of Education, Culture and Science, in 2018. Project title: EVIDENCE – EVolutionary Intrusion DETectioN for dynamiC Environments.
9. High Advisory Board Member, **International Family Institute** (based in Istanbul, Turkey), 2017-2021
10. External Member, Selection Committee for Associate Professor (Computer Science), Monash University Malaysia (2016-to date)
11. Committee Member/Expert, ISO/IEC JTC 1/WG11 Smart Cities (International level) (starting 28 July 2017).
12. Invited to conduct lectures and scientific consultations for master students at M. Auezov South Kazakhstan State University (SKSU), Kazakhstan, 29 Oct – 10 Nov 2014.
13. Technical Program Committee, IEEE International Conference on Smart Computing and Electronic Enterprise (ICSCEE) 2018, at Al-Madinah International University, 11-12 July 2018, Selangor, Malaysia.
14. Technical Program Committee, International Conference on Innovations in Computer Science and Engineering (iCiCSE2018), 30 - 31 July 2018, Kuching, Sarawak, Malaysia.
15. Program Committee, the 7th International Conference on IT Convergence and Security (ICITCS2017), 25-28 September 2017, in Seoul, Korea Republic
16. Technical Program Committee, 2015 International Summit on Bio-Metrics and Smart Government (IBMSGs' 2015), 18-20 January 2015, Sousse, Tunisia
17. Technical program committee for 2015 International Conference on Computer Applications & Technology (ICCAT' 2015), 5-7 November, Rome, Italy
18. Program Committee, International Symposium on Biometrics and Security Technologies 2014 (ISBAST14), 25-27 Aug 2014, Kuala Lumpur, Malaysia.
19. Technical Program Committee, Sixth International Conference on Computational Intelligence and Communication Networks 2014 (CICN 2014), 8-10 Nov 2014, Bhopal, India
20. Technical Program Committee, 4th World Congress on Information and Communication Technologies 2014 (WICT 2014), 8-11 Dec 2014, Malacca, Malaysia
21. Organizing Committee, 2009 International Conference on Future Computer and Communication (ICFCC 2009)
22. Organizing Committee, and Emcee for the 3rd Malaysian Software Engineering Conference 2007 (MySEC'07), 3-4 December 2007 in Selangor, Malaysia.
23. Program Committee, 2nd International Conference on Computational Science and Technology (ICCST2014), 27-29 August 2014 at Kota Kinabalu, Sabah, Malaysia. (in conjunction with the 4th International Conference on Artificial Intelligence in Engineering and Technology (ICAIET2014))
24. Program Committee, The International Conference on Cyber Security, Cyber Warfare and Digital Forensic (CyberSec), 26-28 June 2013, Kuala Lumpur

National level:

1. Committee Member/Expert, DSM/NMC/ISC-G/WG5-2 Security Technologies (Jabatan Standard Malaysia), starting Jan 2017.
2. Chairman, Audit Committee, National Population and Family Development Board (LPPKN), 2019-2021.
3. Committee Member, Research Committee, National Population and Family Development Board (LPPKN), 2019-2021.
4. Deputy Chairman, Malaysian Universities Co-curriculum Council (UniCC) (2020-2022).
5. Evaluation Panel for Research Excellence Consortium (*Konsortium Kecemerlangan Penyelidikan*, KKP) for 2023-2024, for the Ministry of Higher Education (KPT).
6. Expert reference for the development of *Modul KASIH Keibubapaan Digital*, LPPKN, 2023.
7. **Associate Editor/Editorial Board** member for the Malaysian Journal of Islamic Movements and Muslim Societies (MJIMMS), published by ABIM, since Mar 2021.
8. Evaluator of Applications for Research Excellence Consortium (*Konsortium Kecemerlangan Penyelidikan*, KKP) 2020, Ministry of Higher Education Malaysia. Oct 2020.
9. Committee member, Education and Human Development Committee, Selangor Foundation (*JK Pendidikan dan Pembangunan Insan Yayasan Selangor*), starting Oct 2018.
10. Asia Pacific University of Technology & Innovation (APU) External Evaluation Panel (project proposal reviewer) for FRGS 2019.
11. Expert member, MyQUANTUM, Cybersecurity Malaysia, since 2016.
12. Reviewer for Taylor's Research Grant Scheme (TRGS) Proposal, **Taylor's University**, May 2012.
13. Protem Committee, Information Security Professional Association of Malaysia (ISPA.my), 2010

14. Referee for Academic Staff Promotion for consideration to Associate Professor at Universiti Teknologi Malaysia (2012)
15. Member of Protection Profile Working Group (PPWG) for the Adaptation of Development for ICT Products, under MOSTI and Cybersecurity Malaysia (2012-2015).
16. Member of Expert Group 5 (EG5-Secure Access) for the National Cybersecurity Roadmap, of MIMOS and MOSTI.
 - Expert Reference, Cyber Security Roadmap Review Workshop, 5 Nov 2009, Putrajaya International Convention Centre, organized by MIMOS Bhd and MOSTI.
 - Expert Reference, Cyber Security Roadmap Review Workshop, 27 July 2009, Putrajaya International Convention Centre, organized by MIMOS Bhd and MOSTI.
 - Expert Reference, National R&D Roadmap for Self Reliance in Cyber Security Technologies: A Review and Update Workshop, 8 October 2007, Palace of the Golden Horses, Seri Kembangan, Selangor, organized by MIMOS Bhd and MOSTI.
17. Interview panel for postgraduate scholarship of the Ministry of Education Malaysia, 22 July 2013, at Putrajaya, Malaysia.
 - 28 June 2013, at UTM Johor, Malaysia
 - 2 July 2012, at USM Penang, Malaysia.
18. Interview panel for postgraduate scholarship of the Public Service Department Malaysia, 10 July 2012, at Uniten, Malaysia.

EXPERIENCE IN ASSESSING ACADEMIC PROGRAMMES

No	Year	Programme Name	Type of appointment	Institution/Agency
1.	2024-2026	Bachelor of Computer Science (Cyber Security) (Honours)	Industry Advisory Panel	UNITEN
2.	2024-2025	Bac. of Engineering in Computer Science and Technology (Honours)	External Examiner	Xiamen University Malaysia
3.	2022-2024	Bachelor of Information Technology (Cyber Security)	Academic Advisor	New Era University College, Malaysia
4.	2022-2024	Bachelor of Information Technology (Cyber Security)	External Examiner	New Era University College, Malaysia
5.	2022-2024	Diploma in Computer Science	Academic Advisor	New Era University College, Malaysia
6.	2022-2024	Diploma in Computer Science	External Examiner	New Era University College, Malaysia
7.	2021-2023	Bachelor of Computer Science	External Examiner	Monash University Malaysia
8.	2020-2022	Master of Science in Cyber Security	External Advisor	Asia Pacific University of Technology and Innovation (APU)
9.	2020-2022	Bachelor in Computer Science (Cyber Security)	External Advisor	Asia Pacific University of Technology and Innovation (APU)
10.	2018-2022	Diploma in Computer Science	External Assessor	Kolej Poly-Tech MARA Sdn. Bhd.
11.	2019-2021	Bachelor of Information Technology (Cyber Security)	Academic Advisor	New Era University College, Malaysia
12.	2019	Master of Science (Faculty of Arts, Computing and Creative Industry)	External Assessor	Universiti Pendidikan Sultan Idris
13.	2019	Diploma of Computer Science (Internet Computing)	External Assessor	Universiti Pendidikan Sultan Idris
14.	2017-2018	Bachelor of Education (Information Technology) with Honours	External Assessor for full accreditation of program	Universiti Pendidikan Sultan Idris
15.	2016	Executive Diploma of Information Technology	External Assessor for full accreditation of program	Universiti Malaya

16.	2015	1. Master of Data Science 2. Master of Information Technology Management	Subject Matter Expert, Program Study Committee for new programs	Universiti Malaya
17.	2017	Master of Cyber Security and Management	Subject Matter Expert for new program	National Defence University of Malaysia (UPNM)

Experiences in **academic assessment/curriculum development**:

1. Moderator for General Studies Subject Course (Kursus Matapelajaran Pengajian Umum, MPU) (Co-Curricular Courses) at the Pusat Pembangunan Kemahiran Insaniah (PPKI), USIM, 25 Feb 2020.
2. Subject Matter Expert, Program Study Committee, for program Bachelor of Computer Science, Faculty of Computer Science and Information Technology, Universiti Putra Malaysia (2012-2016)
3. Subject Matter Expert, for new program Master of Information Security, Faculty of Computer Science and Information Technology, Universiti Putra Malaysia (2012-2016)
4. Subject Matter Expert, for new program Master of Digital Forensic, Faculty of Computer Science and Information Technology, Universiti Putra Malaysia (2013-2015)
5. Subject Matter Expert, for revision of program Master of Computer Science, Faculty of Computer Science and Information Technology, Universiti Putra Malaysia (2014-2018)
6. Curriculum Review Committee, Department of Computer Science, FSKTM (2006/2007).
7. Internal Auditor MS ISO 9001:2000 FSKTM (2008-2013)
8. External Assessor Panel for Exam Items for Diploma of Information Security at **Politeknik Ungku Omar**, Perak (2014-2015) – moderate exam question papers.
9. External Moderator, for **SEGi College** Subang Jaya (2014-2015) – moderate exam question papers.

CONTRIBUTIONS TO SOCIETY

Other/Community Involvement

1. **High Advisory Board Member, International Family Institute** (based in Istanbul, Turkey), 2017-2021.
2. **Board of Directors**, National Population and Family Development Board (LPPKN) (Ministry of Women, Family and Community Development Malaysia), 1 April 2019 – 31 Mac 2021.
3. Chairman, Audit Committee, National Population and Family Development Board (LPPKN), 2019-2021.
4. Chairman, SALWA Malaysia, 2019-2024.
5. Vice President, *Wadah Pencerdasan Umat Malaysia* (WADAH) (Society for the Enlightenment of the Ummah, Malaysia), 2015-2021.
6. Committee member, YADIM Muslim Women Council (Majlis Wanita Islam YADIM) (MAWIM), Jan 2024 – Feb 2026.
7. Associate member, Majlis Profesor Negara, since 2022.
8. Member, Ikatan Ilmuwan Islam Mengenai Dasar dan Tadbir Urus (IITQAN), since 2021.
9. Member, Board of Governors, (*Lembaga Pengelola Sekolah*), Sekolah Rendah/Menengah Islam ABIM (ABIM Primary and Secondary Islamic Schools), Sg Ramal (2024-2026)
10. Member, Board of Governors, (*Lembaga Pengelola Sekolah*), Sekolah Rendah/Menengah Islam ABIM (ABIM Primary and Secondary Islamic Schools), Sg Ramal (2013-2016)
11. Main Committee, Malaysian Muslim Women Consultative Council (*Majlis Perundingan Wanita Rahmah, MAWAR-YADIM*), 2019-2021.
12. Appointed as a *Panel Isu Semasa Wanita Islam* (PISWI) – appointed by the Minister at the Prime Minister Department, 2019-2021.
13. Appointed as Duta Rahmah by the Minister at the Prime Minister Department, 2019.
14. Committee, Education and Human Development Committee, Selangor Foundation, 2018 – now.
15. Chairman of the Malaysia Family Declaration Drafting Committee (*JK Merangka Deklarasi Keluarga Malaysia*), (KPWKM/LPPKN), 2019.
16. Central Executive Committee, WADAH, 2012-2015.

17. Executive Committee, Interactive Muslimah Association of Kuala Lumpur and Selangor (IMAN), since 2007.
18. Central Executive Committee (Professional Bureau), *Angkatan Belia Islam Malaysia* (ABIM) (Muslim Youth Movement of Malaysia) 2007-2009
19. Member of ABIM, since 1989
20. Committee and Head of Women Affairs, *Persatuan Kebangsaan Pelajar Islam Malaysia* (PKPIM) (National Union of Malaysian Muslim Students) 1992-1996
21. Head, Muslim Women Affairs Division (HELWA), Malaysian Islamic Study Group (MISG-ABIM) UK and Eire, 2004-2006
22. Council Member, Muslim Women Affairs Division (HELWA) ABIM, 2009-2011
23. Committee Member, *Nadwah Ilmuan Kebangsaan* (National Scholars Assembly), since 2012.
24. Council Member, Majlis Tertinggi Pendidikan Al-Hikmah (*Al-Hikmah Education Supreme Council*), ABIM (since 2009).
25. Member, Alumni Universiti Putra Malaysia Chapter FSKTM (since 2009)
 - Committee member (2010/2011)
26. Committee Member (Special Tasks) Alumni Computer Science UPM (1997-2002)
27. *Persidangan Meja Bulat Konvensyen Institusi-institusi Pendidikan Islam Kerakyatan* (Round-Table Conference on Convention of People's Islamic Education Institutions), 31 Jan 2013, Kolej Dar al-Hikmah, Kajang
28. Committee member (emcee) for *Himpunan Helwa Kebangsaan 2013* on 2 Feb 2013, at Bangunan Sultan Abdul Aziz, Shah Alam, Selangor, organized by WADAH, ABIM and PKPIM
29. Committee member (emcee) for Wacana CEDAW dan Dasar Wanita Negara (Discourse of CEDAW and the National Women Policy), 17 Dec 2011, at International Islamic University of Malaysia (IIUM), co-organized by Interactive Muslimah Association (IMAN), IKRAM, and IIUM Women for Progress Research Unit (WRU)
30. AJK Resolusi, Forum Meja Bulat: Pandangan WADAH, ABIM, dan PKPIM Berkaitan Isu Penghapusan UPSR dan PMR di Sekolah-sekolah, 21 Aug 2010, at Kolej Dar al-Hikmah, Kajang.
31. AJK Resolusi, Persidangan ke-2 Draf Memorandum: Isu Penghapusan UPSR dan PMR di Sekolah-sekolah, 5 September 2010, at Kolej Dar al-Hikmah, Kajang.
32. As a volunteer in the 4th earthquake relief mission of Global Peace Mission (GPM) to Padang, Indonesia, on 27–29 Oktober 2009, to help earthquake victims in Maninjau, Padang, Indonesia.

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