MAZDAK ZAMANI

- Email: zamani.mazdak@gmail.com
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- Interests: Cybersecurity; Artificial Intelligence

Academic Degrees

- Ph.D., Computer Science, Universiti Teknologi Malaysia. Thesis title: Genetic-Based Substitution Techniques for Audio Steganography. 2007–2010. (Abstract in Appendix)
- M.S., Computer Engineering (Software), IAU University, Iran. Dissertation title: Data Hiding in Audio: Techniques Comparison and Selection. 2004–2006.
- B.S., Computer Engineering (Software), IAU University, Iran. 1998–2004.

Teaching Experience

- **Adjunct Assistant Professor**, Courant Institute of Mathematical Sciences, New York University, 2021–present.
    - **Taught courses:** Cryptography and Network Security; Fundamental Algorithms.
    - **Designed courses:** Cryptography and Network Security (Hybrid); Fundamental Algorithms (Online).
- **Assistant Professor**, Department of Computer Science and Technology, School of Science, Mathematics and Technology, State University of New York - Empire State University, 2024–present.
    - **Taught courses:** Introduction to Networks; Database Systems; Introduction to Digital Crime and Terrorism; Introduction to Cybersecurity; Business Continuity Planning and Disaster Recovery; Database Design and Management; Risk Analysis and Management; Hacking and Network Defense; Network Administration; Educational Planning; Network Security; Internship Initiative.
    - **Designed courses:** Network Security; Applied Cryptography in Cybersecurity; Penetration Testing.
- **Associate Professor**, Department of Computer Sciences and Cybersecurity, School of Business and Information Sciences, Felician University, 2020–2024.

- o **Designed courses:** Penetration Testing I; Information and Digital Security; Advanced Cryptography; Advanced Penetration Testing; Python I; Python II.

- **Assistant Professor**, Department of Cybersecurity, School of Arts and Sciences, Felician University, 2017–2020.

  - o **Taught courses:** Network Security; Digital Forensics and Investigation; Information Assurance and Security; Operating System Security; Advanced Cryptography; Networks and Telecommunications; Cryptography Technologies; Introduction to Advanced Computer Applications; Introduction to Programming I; Python I; Python II.

- **Assistant Professor**, Department of Computer Science, College of Natural, Applied and Health Sciences, Wenzhou-Kean University, 2015–2016.

  - o **Taught courses:** Principles of Networking; Computer Organization and Programming; Fundamentals of Computer Science; Microcomputer Applications.

- **Adjunct Professor**, School of Business and Computer Science, Caldwell University, 2020–2022.

  - o **Taught courses:** Data Security and Disaster Recovery; Data Management Systems; Computer Architecture.

- **Senior Lecturer**, Informatics Department, Advanced Informatics School, Universiti Teknologi Malaysia, 2012–2015.

  - o **Taught courses:** Security Architecture and Models; Enterprise Information Assurance; Cryptography; Network Security.

  - o **Course coordinator for:** Enterprise Information Assurance; Security Architecture and Models.

  - o **Course moderator for:** E-Crime Investigation and Incident Response Management; Biometrics in Information Assurance; Enterprise Information Systems; Cyber Law and Ethical Issues.

  - o **Curriculum designer:** Master of Science (Information Assurance).

- **Visiting Lecturer**, Information Security Department, Advanced Informatics School, Universiti Teknologi Malaysia, 2010–2012.

  - o **Designed courses:** Information Assurance Architecture and Technologies; Wireless Infrastructure Security.

- **Adjunct Lecturer**, Computer Department, Islamic Azad University (IAU), Iran, 2004–2007.

- o **Taught subjects:** Algorithm Design; Artificial Intelligence; Database; Data Structures; Operating Systems; Advanced Programming; Data Storage and Retrieval; Web Page Design; Software Engineering; Programming in Pascal, C, C# .NET, ASP.NET.

- **Adjunct Lecturer**, Computer Department, Payame Noor University, Iran, 2005–2006.

  - o **Taught subjects:** Algorithm Design; Artificial Intelligence; Database; Data Structures; Operating Systems.

- **Adjunct Lecturer**, Computer Department, Sama Schools, Isfahan, Iran, 2004–2006.

  - o **Taught subjects:** Database; Data Structures; Operating Systems.

- **Adjunct Lecturer**, Computer Department, University of Applied Science and Technology, Isfahan, Iran, 2005–2006.

  - o **Taught subjects:** Database; Data Structures; Web Page Design; Advanced Programming; Data Storage and Retrieval.

- **Computer Tutor and Examiner**, Iran Technical & Vocational Training Organization, Najafabad, Iran, 2001–2005.

  - o **Taught courses:** Networking; AutoCAD; Programming; Microsoft Office; Internet; Operating Systems.

Administrative Experience

- Associate Dean of Computer Sciences, Institute for Information Sciences, Felician University, 2019–2021.

- Research and Development Coordinator, Advanced Informatics School, Universiti Teknologi Malaysia, 2012–2015.

- Research Chair, Multimedia Security Track, Multimedia Content Protection Technology Group, K-Economy Research Alliance, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia, 2010–2015.

Industrial Experience

- Researcher, Digital Watermarking for e-Passport Tamper Detection Project. Collaboration between Software R&D Department of IRIS Corporation and UTM-AIS, Technology Park Malaysia, 2011–2013.

- Researcher, LOI for cooperation between Advanced Informatics School, Universiti Teknologi Malaysia, and Digital Forensics Department, CyberSecurity Malaysia: Development of proficiency tests for the fields of computer forensics, image analysis, video analysis, and audio analysis, 2013–2014.

- Secretary and Treasurer, International Rough Set Society – Malaysia Chapter, 2013–2015.

Grants

- **Co-Principal Investigator.** National Science Foundation (NSF) Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM). *Science and Information Technology Scholars: Recruiting, Retaining, and Graduating Biology, Computer Science, and Cybersecurity Students to Meet Workforce Needs.* Award No. (FAIN): 1930141. Amount: $637,562. Period: Dec 15, 2019 – Nov 30, 2024.

- **Senior Personnel.** NSF, *Harnessing the Data Revolution: National Data Mine Network.* NSF Org: Division of Information and Intelligent Systems. Award Number: 2123321. Amount: $600,000. Period: 2021–2024. Awardee: American Statistical Association.

- **Participant.** NSF, CyberCorps® Scholarship for Service (SFS). *Cyber Security Master's Track.* Award Number: 1516092. Amount: $237,987. Period: 2015–2018.

- **Project Leader.** Prototype Development Research Grant Scheme. *A Novel Image Watermarking Software for Malaysian E-Passport Authentication.* Amount: RM 50,000. Sponsor: Ministry of Higher Education, Malaysia. Year: 2013.

- **Project Leader.** Research University Grant (Foreign Academic Visitor). *A Watermarking Tool for E-Passport Protection.* Amount: RM 30,000. Sponsor: Universiti Teknologi Malaysia. Year: 2012.

- **Researcher.** Research University Grant (Tier 1). *A Novel Model to Enhance Cloud Authentication Security Using Watermarking Methods.* Amount: RM 80,000. Sponsor: Universiti Teknologi Malaysia. Year: 2014.

- **Researcher.** Research University Grant (Flagship). *Appraising the Potential Risk of Digital Heritage Disaster Management Resources.* Amount: RM 30,000. Sponsor: Universiti Teknologi Malaysia. Year: 2013.

- **Researcher.** Fundamental Research Grant Scheme. *Subjective Assessment Model of Quranic Audio Watermarking.* Amount: RM 71,000. Sponsor: Ministry of Higher Education, Malaysia. **Year:** 2013.

- **Researcher.** Research University Grant (Foreign Academic Visitor). *Analysis and Assessment of Bluetooth Vulnerabilities in High-End Cars.* Amount: RM 29,600. Sponsor: Universiti Teknologi Malaysia. Year: 2012.

- **Researcher.** Exploratory Research Grant Scheme. *Efficient Digital Image Authentication and Tamper Localization Technique Using LSB Watermarking.* Amount: RM 68,000. Sponsor: Ministry of Higher Education, Malaysia. Year: 2012.

Editor of Books

- Kumar, M., Pilania, U., Tanwar, R., Ahuja, N. J., & Zamani, M. (2025). IoT, blockchain, and smart healthcare: Integration techniques and case studies. *In press.* CRC Press.

- Information Security and Optimization. Taylor & Francis Group. Editors: Rohit Tanwar, Tanupriya Choudhury, Mazdak Zamani, Sunil Gupta. 2020. ISBN 978-0-367-49345-5.

- Multimedia Forensics and Security (Foundations, Innovations, and Applications). Intelligent Systems Reference Library, Vol. 115. Editors: Aboul Ella Hassanien, Mohamed Mostafa Fouad, Azizah Abdul Manaf, Mazdak Zamani, Rabiah Ahmad, Janusz Kacprzyk. Springer, 2017. Print ISBN 978-3-319-44268-6; Online ISBN 978-3-319-44270-9.

- Proceedings of the International Conference on Informatics and Creative Multimedia. Kuala Lumpur, Malaysia, Sept 3–6, 2013. Editors: Neo Mai, Mazdak Zamani, Noor Azurati Ahmad, Wong Chee Onn. Publisher: IEEE. DOI/IEEE ID: 10.1109/ICICM.2013.

- Informatics Engineering and Information Science. *Communications in Computer and Information Science (CCIS)*, Springer. Editors: Azizah A. Manaf, Akram Zeki, Mazdak Zamani, Suriayati Chuprat. Part 1: 652 pp., ISBN-10: 3642253261. Part 2: 775 pp., ISBN-10: 3642254527. First edition, Nov 21, 2011.

Editor of Journals *(selection; see Appendix for full list)*

- Special Issue: Mobile Edge Computing in Smart Internet of Things for Future Networked Societies. *Internet of Things* (Elsevier). ISSN: 2542-6605.

- Special Issue: Application of Multi-Agent Systems, AI and Blockchain in Smart Energy Systems (VSI-sea). *Computers and Electrical Engineering* (Elsevier). ISSN: 1879-0755.

- Special Issue: Knowledge-Based Strategies for Industrial Automation Systems. *International Journal of System Assurance Engineering and Management* (Springer Nature). ISSN: 0976-4348.

- Special Issue: Multi-Agent Systems Learning, Security and Control. *Complex Engineering Systems* (OAE Publishing). ISSN: 2770-6249.

- Special Issue: Cybersecurity in the Era of AI. *Future Internet* (MDPI). ISSN: 1999-5903.

- Special Issue: State-of-the-Art Electronics in the USA. *Electronics* (MDPI). ISSN: 2079-9292.

- Journal of Biomedical Research & Environmental Sciences. (Sciforce Publications). ISSN: 2766-2276.

- Future Internet. (MDPI). ISSN: 1999-5903.

- Journal of Surveillance, Security and Safety. (OAE Publishing Inc.). ISSN: 2694-1015.

- Computational Intelligence and Machine Learning Journal. (Institute for Engineering Research and Publication). ISSN: 2582-7464.

- Special Issue: State-of-the-Art Artificial Intelligence Technology. *Electronics* (MDPI). ISSN: 2079-9292.

- Special Issue: Advances in Machine Learning for Cybersecurity. *Journal of Computer Networks and Communications* (Hindawi).

- Special Issue: Secure Communications. *Telecommunication Systems* (Springer). ISSN: 1018-4864.

- Special Issue: AI-Enabled Security and Privacy Mechanisms for IoT. *Electronics* (MDPI). ISSN: 2079-9292.

- Journal of Autonomous Intelligence. (Frontier Scientific Publishing). eISSN: 2630-5046.

- Artificial Intelligence Section. *Electronics* (MDPI). ISSN: 2079-9292.

- Special Issue: Innovations in Communications Security. *Journal of Electrical and Computer Engineering* (Hindawi). ISSN: 2090-0147.

Keynote Speaker

- International Conference on Innovations in Technology and Management, Goa, India, Dec 21–23, 2022.

- Increasing Citation and H-Index by Improving Publication Seminar. June 3, 2015. Universiti Teknologi Malaysia, Kuala Lumpur.

Certificates, Awards, and Patents

- **Award**

  - Research Student Grant - *Development of Digital Audio Information Hiding Systems for High-Embedding-Capacity Applications*, Ministry of Science, Technology and Innovation, Malaysia, 2008–2010.

- **Patent**

  - *System, Methods, and Program Product for Hiding Messages.* Filing No.: PI 20084875; Patent No.: MY-167750-A. Date: Sept 24, 2018.

- **Certificates**

  - (ISC)^2 Certified in Cybersecurity (CC), USA, 2023.

  - EC-Council Certified Ethical Hacker (CEH), Malaysia, 2014.

Reviewer of Journals *(selection; see Appendix for full list)*

- **2025**

  - *IEEE Transactions on Knowledge and Data Engineering (IEEE). ISSN: 1041-4347.*

  - *IEEE Transactions on Neural Systems and Rehabilitation Engineering (IEEE). ISSN: 1558-0210.*

- **2024**

  - *Artificial Intelligence Review (Springer Nature). ISSN: 1573-7462.*

  - *Blockchain: Research and Applications (Elsevier). ISSN: 2666-9536.*

  - *Atmospheric Pollution Research (Elsevier). ISSN: 1309-1042.*

  - *IEEE Internet of Things Journal (IEEE). ISSN: 2327-4662.*

  - *Sensors (MDPI). ISSN: 1424-8220.*

  - *Transactions on Neural Systems and Rehabilitation Engineering (IEEE). ISSN: 1534-4320.*

  - *Journal of Surveillance, Security and Safety (OAE Publishing Inc.). ISSN: 2694-1015.*

  - *The Journal of Supercomputing (Springer). ISSN: 0920-8542.*

  - *Scientific Reports (Nature Portfolio). ISSN: 2045-2322.*

- o *Energy Strategy Reviews (Elsevier). ISSN: 2211-4688.*

- o *IEEE/ACM Transactions on Audio, Speech, and Language Processing (IEEE/ACM). ISSN: 2329-9304.*

- **2023**

  - o *Imaging Science Journal (Taylor & Francis). ISSN: 1368-2199.*

  - o *Viruses (MDPI). ISSN: 1999-4915.*

  - o *Journal of Cybersecurity and Privacy (MDPI). ISSN: 2624-800X.*

  - o *Journal of Surveillance, Security and Safety (OAE Publishing Inc.). ISSN: 2694-1015.*

  - o *Neural Computing and Applications (Springer). ISSN: 1433-3058.*

  - o *Psychiatry Research (Elsevier). ISSN: 0165-1781.*

  - o *Journal of Image and Graphics (University of Portsmouth). ISSN: 2301-3699.*

  - o *Electronics (MDPI). ISSN: 2079-9292.*

  - o *Cryptography (MDPI). ISSN: 2410-387X.*

Examiner of PhD Students *(selection; see Appendix for full list)*

- **Murdoch University, Australia**

  - o Nabahan Hamadneh, *Analysis and Design of Active Queue Management for TCP-RED Congestion Control Strategies*. 2012.

- **University of Tasmania, Australia**

  - o Erfan Aghasian, *A Privacy-Based Mechanism for Users' Information Scoring and Anonymisation Across Multiple Online Social Networks*. 2019.

- **Sardar Vallabhbhai National Institute of Technology, Surat, India**

  - o Nishant Doshi, *Investigating Approaches for Ciphertext-Policy Attribute-Based Encryption*. 2014.

- **Universiti Putra Malaysia, Malaysia**

  - o Mohammed Tanko Yahaya, *Applying Neural Networks in Advancing Security Services for SaaS Applications*. 2025.

- Gunavathi A/P Duraisamy, *Access Control Model–Based Testing for Data Security and Privacy on Multi-Tenant SaaS Applications*. 2024.

- Najla'a Ateeq Mohammed Draib, *Security Testing of Web Applications for Detecting and Removing Second-Order SQL Injection Vulnerabilities*. 2022.

- **Universiti Teknologi Malaysia, Malaysia**

  - Sajjad Dadkhah, *Tamper Detection by Watermarking Technique*. 2012.

Graduate Supervisor *(selection; see Appendix for full list)*

- **Universiti Teknologi Malaysia**

  - Somayeh Nikbakhsh - *Rogue Access Point Detection Algorithm*.

  - Sara Farahmandian - *A Secure Virtualization Model for Cloud to Defend Against DDoS Attacks*.

  - Tanya Koohpayeh Araghi - *Prevention of Black Hole Attacks in Wireless Mobile Ad Hoc Networks*.

  - Eghbal Ghazizadeh - *A Trust-Based Model for Cloud Using Federated Identity Architectures*.

Graduate Examiner *(selection; see Appendix for full list)*

- **Universiti Teknologi Malaysia**

  - Reza Khaleghparast - *A Method for Trust in Cloud Computing Using Cloud Watermarking*.

  - Zahra Sadat Shams Dolatabadi - *Digital Image Watermarking Based on the Wavelet Transform Domain*.

  - Faranak Tohidi - *Ownership Authentication by Digital Image Watermarking*.

Supervisor of PhD Students *(selection; see Appendix for full list)*

- **Universiti Teknologi Malaysia**

  - Saman Shojae Chaeikar - *Pixel Similarity Weight Statistical Steganalysis Algorithm for Detection of LSB-Flipping Image Steganography*, 2012–2015.

- o   Mojtaba Alizadeh - *A Secure Password Authentication Mechanism for Seamless Handover in Proxy Mobile IPv6 Networks*, 2014–2015.

- o   Touraj Khodadadi - *Graphical Password Pattern to Increase Security*, 2013–2014.

- o   Sasan Karamizadeh - *Filtering-Based Illumination Normalization Techniques for Face Recognition*, 2013–2015.

Chair of International Conferences *(selection; see Appendix for full list)*

- 2023 International Conference on Cybersecurity (ICC 2023), June 16–18, 2023, Manhattan, New York, USA.

- The 6th International Conference on Artificial Intelligence and Pattern Recognition, Sept 16–18, 2019, Poland.

Committee Member of International Conferences *(selection; see Appendix for full list)*

- 4th Communication Technologies and Cloud Computing Conference, Edinburgh, UK, Aug 11–13, 2023.

- IEEE 12th International Conference on Educational and Information Technology, China, 2023.

- 11th International Conference on Educational and Information Technology, Chengdu, China, Jan 6–8, 2022.

- Reconciling Data Analytics, Automation, Privacy, and Security: A Big Data Challenge, Madrid, Spain, Oct 17–18, 2022.

- European Lasers, Photonics and Optics Technologies Summit, Paris, France, Sept 24–25, 2020.

Recent Publications *(selection; see Appendix for full list)*

- Zamani, M., Motamedi, A., Shankar, A., Khodadadi, T., Abdul Manaf, A., Karamizadeh, S., Alizadeh, M., & Shojae Chaeikar, S. (2025). Scholarly publication transformation by artificial intelligence. In *Proceedings of the 2025 International Conference on Artificial Intelligence, Computer, Data Sciences and Applications (ACDSA)*. IEEE.

- Zamani, M., Motamedi, A., Karamizadeh, S., Khodadadi, T., Alizadeh, M., & Shojae Chaeikar, S. (2025). Artificial intelligence for promoting equity, diversity, and inclusion.

In *Proceedings of the 2025 International Conference on Artificial Intelligence, Computer, Data Sciences and Applications (ACDSA)*. IEEE.

- Zamani, M. (2025). *Abusing GenAI in lieu of traditional algorithms.* In *Proceedings of the 10th International Conference on ICT for Intelligent Systems (ICTIS 2025)*. New York, USA: Springer SIST (ISSN 2190-3018).

- Zamani, M. (2025). *Privacy phobias of using generative artificial intelligence (GenAI).* In *Proceedings of the International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME 2025)*, Zanzibar, Tanzania.

- Zamani, M., De la Prieta, F., & Pinto, T. (2025). Introduction to the special issue on application of multi-agent systems, AI and blockchain in smart energy systems (VSI-sea). *Computers and Electrical Engineering.* Elsevier.

- Guo, Z., Xiao, M., Zhu, F., Chen, X., Shankar, A., Zamani, M., & Singh, S. K. (2025). A manifold-based adversarial autoencoder with Fourier convolution for hyperspectral unmixing. *Applied Soft Computing, 113176.* Elsevier.

- Alsolami, E., Al-Khasawneh, M. A., Alarood, A. A., Alzahrani, A. O., Ibraheem, A. A., & Zamani, M. (2025). A reliable framework for supply chain management using cluster-based blockchain for intelligent industrial automation. *Scientific Reports, 15*(1), 22221. Nature Publishing Group.

- Karamizadeh, S., Pourmirzaei, M., Zamani, M., & Shankar, A. (2025). A hybrid CNN-transformer architecture for adult image and video content recognition on the Internet. *Multimedia Tools and Applications.* Springer.

- Kumar, M., Pilania, U., & Zamani, M. (2025). Ensuring patient-centric data control using blockchain in smart healthcare systems. In *IoT, Blockchain, and Smart Healthcare: Integration Techniques and Case Studies* (p. 56). CRC Press.

- Karamizadeh, S., Moazen, M., Zamani, M., & Abdul Manaf, A. (2024). Enhancing IoT-based smart home security through a combination of deep learning and self-attention mechanism. *Arabian Journal for Science and Engineering, 49*(9), 12431–12441. Springer Berlin Heidelberg.

- Xue, X., Shankar, A., Flammini, F., & Zamani, M. (2024). Similarity feature construction for semantic sensor ontology integration via light genetic programming. *IEEE Internet of Things Journal.* IEEE.

- Shojae Chaeikar, S., Mirzaei Asl, F., Yazdanpanah, S., Zamani, M., Manaf, A. A., & Khodadadi, T. (2023). Secure CAPTCHA by genetic algorithm (GA) and multi-layer perceptron (MLP). *Electronics*.

- Ameri, R., Hsu, C., Band, S. S., Shahab, Zamani, M., Shu, C., & Khorsandroo, S. (2023). Forecasting PM 2.5 concentration based on integrating of CEEMDAN decomposition method with SVM and LSTM. *Ecotoxicology and Environmental Safety, 266*, 115572.

- Khodadadi, T., Zamani, M., Chaeikar, S. S., Javadianasl, Y., Talebkhah, M., & Alizadeh, M. (2023). Exploring the benefits and drawbacks of machine learning in cybersecurity to strengthen cybersecurity defences. In *Proceedings of the 2023 IEEE 30th Annual Software Technology Conference (STC)* (pp. 1–1). Maryland, USA.

- Tanwar, R., Nandal, N., Zamani, M., & Manaf, A. A. (2022). Pathway of trends and technologies in fall detection: A systematic review. *Healthcare, 10*(1), 172.

- Arab, F., Zamani, M., Karamizadeh, S., Alizadeh, M., Chaeikar, S. S., & Khodadadi, T. (2022). Comparison of data hiding techniques for video watermarking applications. In *Proceedings of the 7th International Conference on Computer and Communication Systems*. Wuhan, China.

- Tanwar, R., Pilania, U., Zamani, M., & Manaf, A. A. (2022). Framework for video steganography using integer wavelet transform and JPEG compression. *Future Internet, 14*, 254.

International Scientific Committee

- World Scientific and Engineering Academy and Society (WSEAS). ID: 42218.

- Society of Digital Information and Wireless Communications (SDIWC).

- Institute of Electrical and Electronics Engineers (IEEE).

- Association for Computing Machinery (ACM).

- World Academy of Science, Engineering and Technology (WASET).

- International Research and Innovations in Science, Engineering and Technology.

- International Scientific Academy of Engineering & Technology.

- Machine Intelligence Research Labs.

- Planetary Scientific Research Centre (PSRC).

References are available upon request --- Portfolio is available upon request

APPENDIX

Editor of Journals (continued)

- *Journal of Emerging Technologies in Web Intelligence.* Academy Publisher. ISSN 1798-0461.

- *Journal of Next Generation Information Technology.* AICIT. ISSN 2233-9299.

- *Journal of Communications and Information Sciences.* AICIT. ISSN 2233-9396.

- *Facta Universitatis, Series: Mathematics and Informatics.* University of Nis, Serbia. ISSN 0352-9665.

- *Computer and Information Science.* Canadian Center of Science and Education. ISSN 1913-8989.

- *Turkish Journal of Electrical Engineering and Computer Sciences.* ISSN 1300-0632.

- *Journal of Convergence Information Technology.* Advanced Institute of Convergence Information Technology. ISSN 2233-9345.

- *International Journal of Networks and Communications.* Scientific & Academic Publishing Co. ISSN 2168-4944.

- *International Journal of Digital Content Technology and its Applications.* AICIT. ISSN 1975-9339.

- *International Journal of Computer Networks and Applications.* ISSN 2395-0455.

- *Advances in Information Science and Service Science.* AICIT. ISSN 2233-9388.

- *Open International Journal of Informatics.* ISSN 2289-2370.

Supervisor of PhD Students (continued)

- **Universiti Teknologi Malaysia**

  - Ali Ordi. *Puzzle-Based Technique for WLAN Against DoS Attacks*, 2011–2015.

  - Amirmohammad Sadeghian. *Detecting SQL Injection Attacks by an Improved Model of Variable Filtering*, 2014–2015.

  - Tanya Koohpayeh. *A Robust Digital Image Watermarking Scheme Using Hybrid DWT-SVD Technique*, 2013–2015.

- Atefeh Tajpour. *An Identity Theft Prevention Model for E-Commerce Users*, 2012–2015.

- Yashar Javadian. *Watermarking for Authentication of Volatile Information in Live Investigation of Botnet Attacks*, 2013–2015.

- Mohammad Javad Rajabi. *A Robust DCT-Based Technique for Image Watermarking Against Removal Attacks*, 2012–2015.

- Ala' Abdulsalam Suleiman Alarood. *A New Secure Scheme in Audio Steganography to Improve Capacity and Imperceptibility*, 2013–2015.

- Jafar Shayan. *A DFT-Based Robust Image Watermarking Technique Against Cropping Attack*, 2013–2015.

- Amir Hesam Yaribakht. *Robust and Recovery of Digital Image Watermarking Using Wavelet Group Quantization*, 2014–2015.

- Mohsen Bazyar. *Data Embedding in MPEG-1 Layer III Compressed Domain Using Least Significant Bit Method*, 2014–2015.

- Reza Aghababaeyan. *RA_Sparse-Based Watermarking Method to Improve Robustness of Non-Blind Image Watermarking*, 2011–2013.

- **Universiti Teknikal Malaysia Melaka**

  - Alaa Abdulhussein Jabbar - *Compound Neighbor Pixel Color Correlativity Statistical Image Steganalysis Method*, 2011–2015.

Examiner of PhD Students (continued)

- **Universiti Teknologi Malaysia**

  - Azuan Ahmad. *Intrusion Detection Systems for Software-as-a-Service in Cloud Computing.* Semester 2012–2013.

  - Nur Hafizah binti Ghazali. *Watermarking in Medical Images for Authentication.* Semester 2011–2012.

  - Mohammedsadegh Aameri. *A Framework for Partitioning and Execution of Extensive Applications in Mobile Cloud Computing.* Semester 2013–2014.

  - Nor Shahidayah Razali. *Gait Analysis for Criminal Identification Based on Motion Capture.* Semester 2012–2013.

  - Fatemeh Meskaran. *The Effect of Trust and Security on Online Purchase Intention in B2C E-Commerce.* Semester 2012–2013.

- Seyed Hossein Nikou. *Heuristics Optimization for Solving Variants of Multistage Logistics Network Problems.* Semester 2012–2013.

- Ala Abdulhakim Abdulaziz. *Gesture-Based Password Authentication Prototype in Touch Screen Devices.* Semester 2012–2013.

- Abdalrahman Salem Alfagi. *Dynamic Watermarking for Web Applications and Securing Databases Against SQL Injection Attacks.* Semester 2012–2013.

- Mohd Shamir Hashim. *Framework for National Cyber Malaysia.* Semester 2011–2012.

- Mohammed Abbas Alameen Saleh. *Development of a Framework to Protect Web Applications from Web-Based Botnets.* Semester 2011–2012.

Publications (continued)

- Khodadadi, T., Javadianasl, Y., Rabiei, F., Alizadeh, M., Zamani, M., & Chaeikar, S. S. (2021). A novel graphical password authentication scheme with improved usability. In *Proceedings of the 4th International Symposium on Advanced Electrical and Communication Technologies*. Alkhobar, Saudi Arabia.

- Arab, F., & Zamani, M. (2021). Video watermarking schemes resistance against tampering attacks. In *Proceedings of the International Conference on Electrical, Computer, Communications and Mechatronics Engineering*. Mauritius.

- Tanwar, R., Pilania, U., Zamani, M., & Manaf, A. A. (2021). An analysis of 3D steganography techniques. *Electronics, 10*(19), 2357.

- Shojae Chaeikar, S., Manaf, A., Alarood, A., & Zamani, M. (2020). PFW: Polygonal fuzzy weighted - An SVM kernel for the classification of overlapping data groups. *Electronics, 9*.

- Tajpour, A., & Zamani, M. (2020). Identity theft and prevention. In *Information Security and Optimization* (p. 25).

- Liang, C., Shanmugam, B., Azam, S., Karim, A., Islam, A., Zamani, M., Kavianpour, S., & Idris, N. B. (2020). Intrusion detection system for the Internet of Things based on blockchain and multi-agent systems. *Electronics, 9*.

- Arab, F., Zamani, M., Poger, S., Manigault, C., & Yu, S. (2019). A framework to evaluate the performance of video watermarking techniques. In *Proceedings of the IEEE 2nd International Conference on Information and Computer Technologies*. Hawaii, USA.

- Hafezi, R., Akhavan, A., Zamani, M., Pakseresht, S., & Shamshirband, S. (2019). Developing a data mining-based model to extract predictor factors in energy systems: Application of global natural gas demand. *Energies*.

- Tanwar, R., Singh, K., Zamani, M., Verma, A., & Kumar, P. (2019). An optimized approach for secure data transmission using spread spectrum audio steganography, chaos theory, and social impact theory optimizer. *Journal of Computer Networks and Communications*.

- Kavianpour, S., Shanmugam, B., Azam, S., Zamani, M., Samy, G. N., & De Boer, F. (2019). A systematic literature review of authentication in Internet of Things for heterogeneous devices. *Journal of Computer Networks and Communications*.

- Chaeikar, S. S., Zamani, M., Manaf, A. B. A., & Zeki, A. M. (2018). PSW statistical LSB image steganalysis. *Multimedia Tools and Applications, 77*(1), 1–31.

- Arab, F., & Zamani, M. (2018). VW16F: A robust video watermarking using simulated block-based spatial domain technique. In *Proceedings of the International Conference on Security and Management*. Las Vegas, USA.

- Alizadeh, M., Tadayon, M. H., Sakurai, K., Baharun, S., Anada, H., Zamani, M., & Khan, M. K. (2017). Comments and improvements of "HOTA: Handover optimized ticket-based authentication in network-based mobility management." In *Proceedings of the 20th Conference on Innovations in Clouds, Internet and Networks*. Paris, France.

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- The 8th International Conference on Digital Information and Communication Technology and its Applications. September 17–19, 2018. Lodz, Poland.

- The Seventh International Conference on E-Learning and E-Technologies in Education. September 17–19, 2018. Lodz, Poland.

- The Sixth International Conference on E-Learning and E-Technologies in Education. September 18–20, 2017. Lodz, Poland.

- The Fourth International Conference on Artificial Intelligence and Pattern Recognition. September 18–20, 2017. Lodz, Poland.

- International Conference on Digital Information Processing, Data Mining, and Wireless. January 28–30, 2015. Dubai, United Arab Emirates.

- The Fourth International Conference on Cyber Security, Cyber Welfare, and Digital Forensic. October 29–31, 2015. Jakarta, Indonesia.

- The Second International Conference on Computer Science, Computer Engineering, and Social Media. September 21–23, 2015. Poland.

- The Second International Conference on Information Security and Digital Forensics. September 8–10, 2015. Malaysia.

- The Second International Conference on Data Mining, Internet Computing, and Big Data. June 29–31, 2015. Mauritius.

- The Third International Conference on Digital Enterprise and Information Systems. April 16–18, 2015. China.

- International Conference on Electrical and Bio-medical Engineering, Clean Energy and Green Computing. January 28–30, 2015. United Arab Emirates.

- The Second International Conference on Computer Graphics, Multimedia and Image Processing. October 29–31, 2015. Jakarta, Indonesia.

- The Second International Conference on Artificial Intelligence and Pattern Recognition. April 16–18, 2015. Shenzhen, China.

- The International Conference on Software Engineering, Mobile Computing and Media Informatics. September 8–10, 2015. Malaysia.

- The Second International Conference on Computer Science, Computer Engineering, and Education Technologies. September 8–10, 2015. Malaysia.

- International Conference on Electrical and Electronic Engineering, Telecommunication Engineering, and Mechatronics. September 8–10, 2015. Malaysia.

- The International Conference on Big Data, Internet of Things, and Zero-Size Intelligence. September 8–10, 2015. Malaysia.

- The International Conference on Green Computing, Intelligent and Renewable Energies. September 8–10, 2015. Malaysia.

- The Third International Conference on Digital Information Processing, E-Business and Cloud Computing. June 29–31, 2015. Mauritius.

- Fourth International Conference on Digital Information Processing and Communications. March 18–20, 2014. Malaysia.

- International Conference on Computing Technology and Information Management. April 9–11, 2014. Dubai, United Arab Emirates.

- International Conference on Computer Security and Digital Investigation. March 18–20, 2014. Malaysia.

- International Conference on Computer Science, Computer Engineering, and Education Technologies. October 14–16, 2014. India.

- Third International Conference on Informatics Engineering and Information Science. September 22–24, 2014. Poland.

- International Conference on Computer Graphics, Multimedia and Image Processing. November 17–19, 2014. Malaysia.

- International Conference on Computer Science, Computer Engineering & Education Technologies. November 17–19, 2014. Malaysia.

- Second International Conference on Green Computing, Technology and Innovation. March 18–20, 2014. Malaysia.

- International Conference on Electrical, Electronics, Computer Engineering and Their Applications. November 17–19, 2014. Malaysia.

- International Conference on Artificial Intelligence and Pattern Recognition. November 17–19, 2014. Malaysia.

- International Conference on Cyber-Crime Investigation and Digital Forensics. November 17–19, 2014. Malaysia.

- International Conference on Data Mining, Internet Computing, and Big Data. November 17–19, 2014. Malaysia.

- International Conference on Embedded, Pervasive and Cyber-Physical Systems. November 17–19, 2014. Malaysia.

- International Conference on Game-Theory, Development, and Applications. March 18–20, 2014. Malaysia.

- International Conference on Advancements in Computing, Communication and Mobile Technology. July 3–6, 2013. Thailand.

- First International Conference on Green Computing, Technology and Innovation. March 4–6, 2013. Malaysia.

- International Conference on Electrical and Electronics Engineering, Clean Energy and Green Computing. December 11, 2013. United Arab Emirates.

- International Conference on Informatics Engineering & Information Science. November 12–14, 2013. Malaysia.

- Second International Conference on e-Technologies and Networks for Development. March 4–6, 2013. Malaysia.

- Second International Conference on Cyber Security, Cyber Warfare and Digital Forensic. March 4–6, 2013. Malaysia.

- Second International Conference on Digital Enterprise and Information Systems. March 4–6, 2013. Malaysia.

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- Sensors (MDPI). ISSN: 1424-8220.

- Computers (MDPI). ISSN: 2073-431X.

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- Computers, Materials & Continua (Tech Science Press). ISSN: 1546-2226.

- Computer Communications (Elsevier). ISSN: 0140-3664.

- IEEE Internet of Things Journal (IEEE). ISSN: 2327-4662.

- Journal of Ambient Intelligence and Humanized Computing (Springer Nature). ISSN: 1868-5137.

- IEEE/ACM Transactions on Audio, Speech, and Language Processing (IEEE/ACM). ISSN: 2329-9290.

- Symmetry (MDPI). ISSN: 2073-8994.

- Natural Hazards (Springer Nature). ISSN: 0921-030X.

- ISPRS International Journal of Geo-Information (MDPI). ISSN: 2220-9964.

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- WSEAS Transactions on Information Science and Applications (WSEAS). ISSN: 1790-0832.

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- SAI Intelligent Systems Conference 2016. London, United Kingdom. September 21–22, 2016.

- Science and Information Conference. London, United Kingdom. July 28–30, 2015.

- International Symposium on Mathematical Sciences and Computing 2015. Ipoh, Malaysia. May 19–20, 2015.

- International Conference on Mobile Web Information Systems. Barcelona, Spain. August 27–29, 2014.

- European Conference of Computer Science. Geneva, Switzerland. December 29–31, 2014.

- World Conference on Information Systems and Technologies. Algarve, Portugal. March 27–30, 2013.

- Science and Information Conference. London, United Kingdom. October 7–9, 2013.

- WSEAS International Conference on Computers (17th). Greece. July 16–19, 2013.

- International Conference on Information Processing and Management. Korea. April 2013.

- International Conference on Information Technology and Computer Networks. 2013.

- International Conference on Intelligent Information Processing. Korea. April 2013.

- International Conference on Advanced Computer Science Applications and Technologies. 2013.

- IEEE 78th Vehicular Technology Conference (VTC2013-Fall). Las Vegas, United States. September 2–5, 2013.

- ICT Innovations Conference (5th). Ohrid, Macedonia. September 12–15, 2013.

- International Conference on Multimedia Systems & Signal Processing. Finland. April 2012.

- International Conference on Soft Computing Models in Industrial and Environmental Applications. Czech Republic. 2012.

- International Conference on Advanced Computer Science Applications and Technologies. 2012.

- International Conference on Computer Sciences and Convergence Information Technology. Korea. December 2012.

- International Conference on Computing Technology and Information Management. Korea. April 2012.

- International Conference on Advanced Information Management and Service. Korea. December 2011.

- International Conference on New Trends in Information Science and Service Science. Macao. October 2011.

- International Conference on Informatics Engineering & Information Science. Malaysia. November 2011.

Graduate Supervisor (continued)

- **Advanced Informatics School, Universiti Teknologi Malaysia – 2014**

  - Mojtaba Alizade – *Performance Evaluation of Lightweight Cryptographic Algorithm Suitable for RFID Networks.*

  - Mariana Md Hashim – *Proactive Third Line of Defense: Auditors' System Fraud Judgments Prior System.*

  - Ahmad Zafir Bib Latib – *Computer Assurance and Security.*

  - Luqman Hakim bin Ibrahim – *Information Assurance.*

  - Farzam Abbasaghababazadeh – *Confidential Model for RFID Against Active Attacks.*

  - Munaliza Bt Jaimun – *Information Assurance Model.*

  - Nurul Afifah Bte Rosle – *Information Assurance Framework.*

  - Taqi Mohammed Ali – *Information Assurance Attacks.*

- **Advanced Informatics School, Universiti Teknologi Malaysia – 2013**

  - Seyedmohammadbagher Shafieinasab – *A Robust Image Watermarking Based on DWT to Withstand Against Rotation Attack.*

  - Ebrahim Osamah Hussein Alhebshi – *Overlay Networks for Distributed Denial of Service Attacks in P2P Network.*

  - Jamil Salem Saleh Bajamil – *A Secure Model to Mitigate Insider Attack.*

  - Amirmohammad Sadeghian – *Detecting SQL Injection Attacks by an Improved Model of Variable Filtering.*

- o Abdullah Ali Hassan Ghadawi – *Information Assurance.*

- **Advanced Informatics School, Universiti Teknologi Malaysia – 2012**

  - o Ahmad Azarnik – *A Visual-Password-Formed Method for User Authentication in Cloud Computing.*

  - o Ali Taherian – *A Model to Enhance Security of Virtualization for Secure Cloud Computing.*

  - o Kambiz Mohammad Hosseini – *A Secure Model for Live Virtual Machine Migration in Cloud.*

  - o Seyed Mostafa Mir Hosseini – *A Radio Frequency Identification Model Against Replay Attack.*

  - o Shawnim Ikram – *E-Banking Authentication Against Shoulder Surfing Attack.*

  - o Sima Boujarian – *A Secure Model Based on Fragile Watermarking Scheme for Tamper Detection.*

  - o Parichehr Manouchehri Ardestani – *Security of Ad Hoc Network Against Collusion Attack.*

  - o Hamid Mohajeri – *Study on VOIP Usage in Academic Environments.*

  - o Nadia Parsazadeh – *Assessment of Success Factors in Information Systems Development Process.*

  - o Farab Alipanah – *A Clustering Method in Wireless Sensor Network.*

  - o Amir Bijarchian – *Efficiency in Enterprise Architecture.*

  - o Zavosh Abdollahzadeh Davani – *A Steganography Method for Enhancing Key Management of ZigBee Network.*

  - o Wang Yuhao – *A Security Framework for Distributed Database.*

- **Advanced Informatics School, Universiti Teknologi Malaysia – 2011**

  - o Nurulmasdenaidayu Binti Zainun Abidin – *Designing Data Mining in Cloud Computing.*

  - o Noorlaily Izwana Binti Ibrahim – *Analyzing Students' Security Behavior Against Malvertising.*

  - o Haslina Binti Haji Sahar – *The Implementation of Human Firewall in Securing the Information Asset.*

- o Mohammad Javad Rajabi – *Factors Influencing Information Security Management in an IT Company.*

- **Advanced Informatics School, Universiti Teknologi Malaysia – 2010**

  - o Hamidreza Sabet Moghaddam – *A Study of Designing Model for XML Web Service Security.*

Graduate Examiner (continued)

- **Universiti Teknologi Malaysia, Kuala Lumpur – 2014**

  - o Nurul Afifah Rosle – *Countermeasure Graphs for Network Security Risk Management.*

  - o Amirul Zahwan Safar – *Information Assurance.*

  - o Surenthiran Krishnan – *Information Assurance.*

  - o Mohd Norfahmi bin Jaafar – *Internal Penetration Testing via Social Engineering Approach.*

  - o Fadzilawati Kaini – *Information Assurance.*

  - o Hozair Rizal – *Information Assurance.*

  - o Taqi Mohammed Ali – *Secure Model for Mobile Phone Banking Applications Awareness Among Users.*

  - o Munaliza Jaimun – *Information Assurance.*

  - o Najihah Yaakob – *Steganography and Smart Card.*

  - o Arwa Abdullah A. Alshaya – *Reversible Watermarking by Using Weighted Medians.*

  - o Ratna Dewi Ibrahim – *Enhanced Image-Based Authentication on Internet Banking Login.*

  - o Nor Fazlinda Mohd Puad – *Analyzing Data Leakage Protection in Email Communication for the Government Sector.*

  - o Diallo Abdoulaye Kindy – *A Novel Model for Information Assurance.*

  - o Iman Ahmeid Moahmed – *Information Assurance Framework.*

- **Universiti Teknologi Malaysia, Kuala Lumpur – 2013**

- Mohsen Nasr Esfahani – *Improving Search Engine Results for Non-English Languages with Non-Algorithmic Solutions.*

- Moaad Abdulrahman M. Khalil – *Improving Information Assurance Awareness in Saudi Arabia.*

- Mohamad Roshidi bin Rozali – *Security Implementation Approach of BYOD in Government Agencies.*

- Khalid Mohamed Mirghani Mubarak – *Design of a Standard Framework for Security Information.*

- Mahathir bin Sulaiman – *Data Integrity Preservation in Cloud Computing Using Data Loss Protection Tools.*

- Syed Mohd Hazrul bin Syed Salim – *Behavior Analysis and Detection of Premium Short Message Service.*

- Amir Hesam Yaribakht – *Robust PDF Watermarking for Copyright Protection.*

- Ali Boroujerdizadeh – *Designing a Method to Enhance Copyright Protection of Digital Video Watermarking.*

- Abolghasem Pashang – *Text Watermarking for Hidden Communication.*

- Hairil Annuar b. Md Salleh – *Enhancing Network Security in Military Environments.*

- Abang Abdul Rasyid b. Abang Yusop – *Botnet Behavior and Activity Detection on Android Operating Systems.*

- Ehsan Ahmadizadeh – *A Secure E-Voting System Based on Biometrics.*

- Hoda Soltanian Bojnord – *Improving a Method for Detecting Sybil Attacks in Vehicular Ad Hoc Networks.*

- Suliman Mohamed Mahmoud – *Security Awareness Framework for Financial Management Information Systems.*

- Yashar Javadianasl – *Extracting Volatile Information in Live Investigation of Botnet Attacks.*

- Touraj Khodadadi – *Recognition-Based Graphical Password System with Balanced Security and Usability Features.*

- Rama Roshan Ravan – *A Method for Querying Encrypted String Data.*

- Joobin Moghimi Zadeh – *Improving Error Correction Model in Steganography Using Reed-Solomon Code.*

- **Universiti Teknologi Malaysia, Kuala Lumpur – 2012**

  - Ahad Akbar Abadi – *Client-to-Client Attack Protection in Cloud via a Secure Virtualization Model.*

  - Maryam Gharooni – *Confidential RFID Model to Prevent Unauthorized Access.*

  - Nazanin Sadat Kazizi – *Cryptographic Protocols Using Steganography for Key Management Improvements.*

  - Norazlina Mutaal – *Sustaining the Effectiveness of Disaster Recovery Strategies.*

  - Sharifah Nida Maria – *Cloud Computing: A Strategic Defense Against Botnet Cryptography for UTM Computer Lab.*

  - Souzan Asadollahi – *Evaluation and Implementation of Two Secure VOIP Models Against Eavesdropping.*

  - Mona Liza binti Jaafar – *Analyzing Data Leakage Protection in Geographical Information Systems.*

  - Mohd Azizul Zaid b. Hj Md Yusof – *Risk Management for Operation and Maintenance Facilities of a Power Plant.*

  - Muhammad Aniq Eastrarulkhair – *Analysis of Information Security Management Systems in Data Protection.*

  - Sallehuddin b. Abdul Latif – *Privacy Risk Categorization for Personal Data Protection in Unit Trust Systems.*

  - Mehrdad Mansouri – *Evaluating Information Security Culture in Higher Learning Institutions.*

  - Sasan Karamizadeh – *Information Security Behaviors in Enhancing Security Awareness.*

  - Nor Hidayah Mohd Jawawi – *Evaluation of Users' Behavior in Handling Computer Incidents in Financial Institutions.*

- **Universiti Teknologi Malaysia, Kuala Lumpur – 2011**

  - Mohd Sofian b. Ismail – *Categorizing Security Risk Management in Outsourcing Information Technology Systems.*

  - Rohaida Ismail – *Analyzing the Effectiveness of Information Security Policy in ISMS Standard.*

  - Mohd Zakry Omar – *Evaluating Information Security Culture in NCIIS.*

- Karen Cheong Foong Lei – *Control Framework for e-Banking in Social Networking.*

- Zanaria Kamaruddin – *Risk Identification for Threats on Server Virtualization.*

- Siti Qatrunnada Imam – *Assessing Risk Levels in Handling Management Operations for Insurance Companies.*

- Khairul Afandy b. Abu Bakar – *Digital Forensic Data Collection in Cloud Computing Using Logical Models.*

- Hazila binti Hasan – *Information Security Behavior in Managing Passwords.*

- Nik Nurul Ain binti Nik Suki – *Face Recognition Using Line Edge Map for e-Passport Systems.*

- Putri Nor Ashiqin binti Md Bakri – *Trustworthiness of Securing Images by Digital Watermarking.*

- Mai Muhammad Bello – *Securing Customer Trust in e-Commerce Transactions.*

- Maryam Gharooni – *A Confidential RFID Framework to Prevent Unauthorized Access.*

- Mohd Farid b. Mohd Buang – *Design and Implementation of Knowledge Management Systems in Digital Forensics.*

- Nureddin Almukhtar Algdar – *Evaluation of Host- and Network-Based Intrusion Detection Systems.*

- Omar Ahmed Abdsalam – *Evaluation of IPv6 Security Features.*

- Ali Ordi – *A Proof-of-Work Model Based on Pattern Matching to Prevent DoS Attacks in Infrastructure WLANs.*

- Muhammad Fisal Zakaria – *Assessment in Cloud Computing.*

- Mahan Niknafs Kermani – *Analysis of Group Key Agreement Protocols.*

- Ahmad Husnudin Mohd Zawai – *Assessment of Identity Management (IDM) in Cloud Computing.*

- Raub b. Ghani – *Standard Specification for Voice Anti-Corruption Commission Investigation Process.*

- Mohd Kamaruddin Md Din – *Managing Digital Evidence in Cybercrime.*

- Rosli Mohd Yusof – *Security Policies for External Data Storage Devices in Insurance Companies.*

- **Universiti Teknologi Malaysia, Kuala Lumpur – 2010**

  - Roza Honarbakhsh – *Enhancing Efficiency in Honeypot Systems.*

  - Mohammad Reza Rostami – *Analysis and Detection of Peer-to-Peer Botnets Based on Node Behavior.*

  - Mohamed Sharafaldin Abdullah Babiker – *Forensic Research System for Web Application Attacks Based on Honeypots.*

  - Almunim Shakir Abdullah Al-Duri – *Information Privacy Ethics from an Islamic Perspective.*

  - Azuan b. Ahmad – *Developing a Forensic Tool for PDF Files.*

  - Abdulrahman Nasser Ali Haidar – *Algorithm Design for Phishing Email Detection.*

  - Sajjad Dadkhah – *Image Watermarking for Tamper Detection.*

  - Siti Dhalila Mohd Satan – *Mobile Steganography Based on the Least Significant Bit.*

  - Ala Abdulhakim Abdulaziz Al-Areqi – *Dual Model for Biometric Identification Systems.*

  - Mahdi Mokhtabar Oghaz – *A Botnet Detection System Using Heuristic Analysis Algorithms.*

  - Arifah A. Razak – *Development of a Database Hardening Checklist for the Malaysian Cohort.*

Committee Member of International Conferences (continued)

- 2nd Communication Technologies and Cloud Computing Conference. March 17–19, 2021. Virtual Conference.

- The Sixth International Conference on Cyber Security, Cyber Welfare and Digital Forensic. March 12–14, 2019. Morocco.

- The Fifth International Conference on Electronics and Software Science. August 2–4, 2019. Japan.

- The Fifth International Conference on e-Technologies and Networks for Development. March 13–15, 2019. Morocco.

- The Fourth International Conference on Electronics and Software Science. November 5–7, 2018. Takamatsu, Japan.

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- The Seventh International Conference on Informatics and Applications. November 5–7, 2018. Takamatsu, Japan.

- The 2018 International Conference on Security and Management. July 30–August 2, 2018. Las Vegas, USA.

- The Fourth International Conference on Computer Science, Computer Engineering and Social Media. May 16–18, 2017. Jordan.

- International Conference on Modern Education, Training and Management Innovation. April 21–22, 2017. Phuket, Thailand.

- The 10th Pervasive Technologies Related to Assistive Environments Conference. June 21–23, 2017. Rhodes, Greece.

- The 17th International Conference on Algorithms and Architectures for Parallel Processing. December 14–16, 2016. Granada, Spain.

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- The Fourth International Conference on Informatics and Applications. July 20–22, 2015. Takamatsu, Japan.

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- South-East Europe Design Automation, Computer Engineering, Computer Networks, and Social Media Conference. September 25–27, 2015. Greece.

- The International Technology Management Conference. May 26–28, 2015. Hammamet, Tunisia.

- The Global Technology Management Conference. July 15–17, 2015. Minnesota, USA.

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- The 15th International Conference on Algorithms and Architectures for Parallel Processing. November 18–20, 2015. Zhangjiajie, China.

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- International Conference on Communications, Information and Network Security. August 21–22, 2014. London, UK.

- GS International Multi-Conference on Science and Technology. August 1–3, 2014. Dubai, UAE.

- International Conference ICT Innovations. September 9–12, 2014. Ohrid, North Macedonia.

- International Conference on Computing Technology and Information Management. April 10–12, 2014. Dubai, UAE.

- International Conference on Education Technologies and Computers. September 22–24, 2014. Lodz, Poland.

- International Conference on Information and Telecommunications Engineering. November 17–18, 2014. Hong Kong, China.

- International Conference on Mobile Web Information Systems (MobiWis). August 27–29, 2014. Barcelona, Spain.

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- International Conference on Management of Computational and Collective Intelligence in Digital Ecosystems. September 15, 2014. Saudi Arabia.

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- Information and Communication Technology–EurAsia Conference 2013. March 25–29, 2013. Yogyakarta, Indonesia.

- International Conference on Advanced Computing, Communication and Mobile Technology. July 3–6, 2013. Chiang Mai, Thailand.

- International Conference on Advancements in Computing Technology. October 29–31, 2013. Bangkok, Thailand.

- International Conference on Communications and Information Sciences. August 26–28, 2013. Busan, Republic of Korea.

- International Conference on Computing and Advanced Information Management. June 18–20, 2013. Jeju, Korea.

- International Conference on Computing and Networking Technology. August 26–28, 2013. Busan, Republic of Korea.

- International Conference on Cryptography, Coding and Information Security. October 14–15, 2013. Osaka, Japan.

- International Conference on Data Mining and Intelligent Information Technology Applications. May 29–31, 2013. Macao.

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- International Conference on Digital Content, Multimedia Technology and its Applications. July 9–11, 2013. Beijing, China.

- International Conference on E-Learning and E-Technologies in Education. September 23–25, 2013. Lodz, Poland.

- International Conference on Informatics and Creative Multimedia. September 3–6, 2013. Kuala Lumpur, Malaysia.

- International Conference on New Trends in Information Science and Service Science. June 18–20, 2013. Republic of Korea.

- International Conference on Soft Computing Models in Industrial and Environmental Applications. September 11–13, 2013. Spain.

- Science and Information Conference. October 7–9, 2013. London, UK.

- World Conference on Information Systems and Technologies. March 2013. Algarve, Portugal.

- Advanced Machine Learning Technologies and Applications. December 8–10, 2012. Cairo University, Egypt.

- Green Wireless Sensor Networks. September 5–8, 2012. Ostrava, Czech Republic.

- International Conference on Advanced Computer Science Applications and Technologies. November 26–28, 2012. Malaysia.

- International Conference on Computing Technology and Information Management. April 24–26, 2012. Seoul, Korea.

- International Conference on Digital Content, Multimedia Technology and its Applications. June 26–28, 2012. Jeju, Korea.

- International Conference on Digital Information and Wireless Communications. March 8–10, 2012. Coimbatore, India.

- International Conference on E-Learning and E-Technologies in Education. September 24–26, 2012. Lodz, Poland.

- International Workshop on Security for Web Applications and E-Commerce (SECWEB 2012). September 27, 2012. London, UK.

- World Congress on E-Commerce and Business on the Web. August 27–29, 2012. London, UK.

- International Conference on Digital Information Processing and Communications. July 10–12, 2012. Lithuania.

- International Conference on Advancements in Electronics and Power Engineering. December 23–24, 2011. Pattaya, Thailand.

- International Conference on Advances in Electrical and Electronics Engineering. October 7–8, 2011. Pattaya, Thailand.

- International Conference on Computer Science and Information Technology. December 17–18, 2011. Pattaya, Thailand.

- International Conference on Computer Technology and Development. November 25–27, 2011. Chengdu, China.

- International Conference on Informatics Engineering and Information Science. November 14–16, 2011. Kuala Lumpur, Malaysia.

- International Conference on Next Generation Information Technology. June 21–23, 2011. Gyeongju, Korea.

- International Conference on New Trends in Information Science and Service Science. October 24–26, 2011. Macao.

- International Conference on Mechanical, Automotive, and Materials Engineering. July 8–9, 2011. Bangkok, Thailand.

Training

- Sexual Harassment Prevention Training, New York University, USA, 2021.

- KnowBe4 - 2022, Security Awareness Foundations; Phishing - Andrew's Inbox; Phishing Foundations; Secure Passwords; Social Engineering; Fraud Protection.

- Vector Solutions, 2022 - Student Mental Health Awareness and Intervention; Youth Suicide Awareness, Prevention, and Postvention.

- Universiti Teknologi Malaysia - Outcome-Based Education (2014); Effective Teaching and Learning (2014); Preparation of Examination Questions (2014); Preparation of Course Review Report and Program Review Report (2013); Induction Course for UTM International Staff (2013).

- CDDOL (Felician University) - Best Practices for Gradebook (2022); Online Course Instructor (2021); Intelligent Agents for Managing Courses (2022); Rubrics (2021); D2L Innovators (2019).

Abstract of Ph.D. Thesis

A novel genetic-concept-based algorithm was proposed for audio watermarking to reduce the distortion of least significant bits substitution and consequently improve the peak signal-to-noise ratio (PSNR) and increase the payload of results. The result of testing showed that in comparison with ordinary substitution techniques and other presented techniques, the payload was considerably increased and PSNR (as an indicator of imperceptibility) was noticeably raised.