

MAZDAK ZAMANI

- **Email:** zamani.mazdak@gmail.com
- **Meet ID:** mazdak.zamani
- **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)
- Master, Computer Engineering - Software, Azad University, Iran. Dissertation Title: Data Hiding in Audio: Techniques Comparison and Selection. 2004-2006.
- Bachelor, Computer Engineering - Software, Azad University, Iran. 1998-2004.

Teaching Experience

- *Adjunct Assistant Professor, Courant Institute of Mathematical Sciences, New York University. 2021-Current.*
 - **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, & Technology, Empire State University, State University of New York. 2024-Current.*
 - **Taught Courses:** Introduction to Networks; Database Systems; Introduction to Dig Crime and Terrorism; Introduction to Cybersecurity; Business Continuity Planning and Disaster Recovery; Database Design and Management; Risk Analysis and Management.
 - **Designed Courses:** Network Security.
- *Associate Professor, Department of Computer Sciences and Cybersecurity, School of Business and Information Sciences, Felician University. 2020-2024.*
 - **Designed Courses:** Penetration Testing I; Information & Digital Security; Advanced Cryptography; Course: Advanced Penetration Testing; Python I; Python II.
- *Assistant Professor, Department of Cybersecurity, School of Arts and Sciences, Felician University. 2017-2020.*
 - **Taught Courses:** Network Security, Digital Forensics and Investigation, Information Assurance and Security, Operating System Security, Advanced Cryptography, Network and Telecommunication, 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.***
 - **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.***
 - **Taught Courses:** Data Security & Disaster Recovery, Data Management Systems, Computer Architecture.
- ***Senior Lecturer, Informatics Department, Advanced Informatics School, Universiti Teknologi Malaysia. 2012- 2015.***
 - **Taught Courses:** Security Architecture and Models, Enterprise Information Assurance, Cryptography, Network Security.
 - **Course Coordinator of:** Enterprise Information Assurance, Security Architecture and Models.
 - **Course Moderator for:** E-crime Investigation and Incident Response Management; Biometrics in Information Assurance; Enterprise Information Systems; Cyber Law and Ethical Issues.
 - **Curriculum Designer,** Master of Science (Information Assurance).
- ***Visiting Lecturer, Information Security Department, Advanced Informatics School, Universiti Teknologi Malaysia. 2010- 2012.***
 - **Designed Courses:** Information Assurance Architecture and Technologies; Wireless Infrastructure Security.
- ***Adjunct Lecturer, Computer Department, Islamic Azad University (IAU), Iran. 2004-2007.***
 - **Taught Subjects:** Algorithms Design, Artificial Intelligence, Database, Data Structures, Operating Systems, Advanced Programming, Data Storage and Retrieval, Web Pages Design, Software Engineering, Programming in Pascal, C, C#.NET, ASP.NET.
- ***Adjunct Lecturer, Computer Department, Payame Noor University, Iran. 2005-2006.***
 - **Taught Subjects:** Algorithms Design, Artificial Intelligence, Database, Data Structures, and Operating Systems.
- ***Adjunct Lecturer, Computer Department, Sama Schools, Isfahan, Iran. 2004-2006.***
 - **Taught Subjects:** Database, Data Structures, and Operating Systems.
- ***Adjunct Lecturer, Computer Department, University of Applied Science and Technology, Isfahan, Iran. 2005-2006.***
 - **Taught Subjects:** Database, Data Structures, Web Pages Design, Advanced Programming, Data Storage and Retrieval.
- ***Computer Tutor and Examiner, Iran Technical & Vocational Training Organization, Najaf Abad, Iran. 2001-2005.***
 - **Taught Courses:** Network, AutoCAD, Programing, MS-Office, Internet, OS.

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. Research Collaboration between Software R&D Department of IRIS Corporation and UTM-AIS, Technology Park Malaysia, 2011-2013.
- **Researcher**, Letter of Intent for cooperation between Advanced Informatics School, Universiti Teknologi Malaysia and Digital Forensics Department, Cybersecurity Malaysia. Development of Proficiency Test for the Field 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). Project Title: Science and Information Technology Scholars: Recruiting, Retaining, and Graduating Biology, Computer Science, and Cybersecurity Students to Meet Workforce Needs. Award Date: December 15, 2019 to November 30, 2024. Award No. (FAIN): 1930141. Fund: \$637,562.
- **Senior Personnel**. National Science Foundation (NSF) Program(s): Harnessing the Data Revolution: National Data Mine Network. NSF Org: Division of Information and Intelligent Systems. Award Number: 2123321. Award Title: HDR DSC: National Data Mine Network. Awarded Amount: \$600,000. Date: 2021-2024. Awardee: American Statistical Association.
- **Participant**. National Science Foundation. CyberCorps(R) Scholarship for Service (SFS). Project Title: Cyber Security Master's Track. Award Number: 1516092. Award Amount: \$237,987. Project Period: 2015 - 2018.
- **Project Leader**, Prototype Development Research Grant Scheme. A Novel Image Watermarking Software for Malaysian E-Passport Authentication. Amount: 50000 RM. Ministry of Higher Education, Malaysia. 2013.
- **Project Leader**, Research University Grant, Foreign Academic Visitor. An Watermarking Tool for E-Passport Protection. Amount: 30000 RM. Universiti Teknologi Malaysia. 2012.
- **Researcher**, Research University Grant, Tier 1. A Novel Model to Enhance the Cloud Authentication Security by Using Watermarking Methods. Amount: 80000 RM. Universiti Teknologi Malaysia. 2014.
- **Researcher**, Research University Grant, Flagship Grant. Appraising the Potential Risk of Digital Heritage Disaster Management Resources. Amount: 30000 RM. Universiti Teknologi Malaysia. 2013.

- **Researcher**, Fundamental Research Grant Scheme. Subjective Assessment Model of the Quranic Audio Watermarking. Amount: 71000 RM. Ministry of Higher Education, Malaysia. 2013.
- **Researcher**, Research University Grant, Foreign Academic Visitor. Analysis and Assessment of Bluetooth Vulnerabilities in High End Cars. Amount: 29600 RM. Universiti Teknologi Malaysia, 2012.
- **Researcher**, Exploratory Research Grant Scheme. Efficient Digital Image Authentication and Tamper Localization Technique Using LSB Watermarking. Amount: 68000 RM. Ministry Higher Education, Malaysia. 2012.

Editor of Books

- Information Security and Optimization. Taylor & Francis Group. By Rohit Tanwar, Tanupriya Choudhury, Mazdak Zamani, Sunil Gupta. 2020. ISBN 9780367493455.
- Multimedia Forensics and Security (Foundations, Innovations, and Applications). Intelligent Systems Reference Library (Volume 115 2017). Editors: Aboul Ella Hassanien, Mohamed Mostafa Fouad, Azizah Abdul Manaf, Mazdak Zamani, Rabbiah Ahmad, Janusz Kacprzyk. ISBN: 978-3-319-44268-6 (Print) 978-3-319-44270-9 (Online)
- Proceeding Book of International Conference on Informatics and Creative Multimedia. Kuala Lumpur, Malaysia. September 3-6, 2013. Editors: Neo Mai, Mazdak Zamani, Noor Azurati Ahmad, Wong Chee Onn. IEEE ID: 10.1109/ICICM.2013. Publisher: IEEE.
- Informatics Engineering and Information Science, “Communications in Computer and Information Science” (CCIS) Series of Springer LNCS. Editors: Azizah A. Manaf, Akram Zeki, Mazdak Zamani and Suriyati Chuprat. Part 1, Paperback: 652 pages. Publisher: Springer. November 21, 2011. Edition: 1. Language: English. ISBN-10: 3642253261. Part 2, Paperback: 775 pages. ISBN-10: 3642254527.

Editor of Journals (See the rest in Appendix)

- Executive Guest Editor. Special Issue: Mobile Edge Computing in Smart Internet of Things for Future Networked Societies. Internet of Things. ISSN: 2542-6605. Elsevier.
- Main Guest Editor. Special Issue on Application of Multi-Agent Systems, AI and Blockchain in Smart Energy Systems VSI-sea. Computers and Electrical Engineering. ISSN 1879-0755. Elsevier.
- Special Issue on Knowledge Based Strategies for Industrial Automation Systems. International Journal of System Assurance Engineering and Management. ISSN 0976-4348. Springer Nature.
- Multi-agent Systems Learning, Security and Control. A Special Issue of Complex Engineering Systems. OAE. ISSN 2770-6249.
- Cybersecurity in the Era of AI. Future Internet, EISSN 1999-5903, MDPI.
- State-of-the-Art Electronics in the USA. Electronics, MDPI. ISSN 2079-9292.
- Journal of Biomedical Research & Environmental Sciences. ISSN 2766-2276.
- Future Internet. 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.

- State-of-the-Art Artificial Intelligence Technology. Electronics, MDPI. ISSN 2079-9292.
- Hindawi: Journal of Computer Networks and Communications. Special Issue on Advances in Machine Learning for Cybersecurity.
- Springer: Telecommunication Systems, Special Issue on Secure Communications. ISSN: 1018-4864.
- AI-Enabled Security and Privacy Mechanisms for IoT. Electronics, MDPI. ISSN 2079-9292.
- Journal of Autonomous Intelligence. Frontier Scientific Publishing. eISSN: 2630-5046.
- MDPI: Electronics (Artificial Intelligence Section). ISSN 2079-9292.
- Hindawi: Journal of Electrical and Computer Engineering. Special Issue on Innovations in Communications Security. ISSN 2090-0147.

Keynote Speaker

- International Conference on Innovations in Technology and Management. December 21-23, 2022. Goa.

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 Number: PI 20084875. Patent Number: MY-167750-A. Date of Patent: September 24, 2018.
- **Certificate**, “Certified in Cybersecurity”. ISC2. USA, 2023.
- **Certificate**, “Certified Ethical Hacker”, EC-Council, Malaysia, 2014.
- **Certificate**, “Best Practices for Gradebook”, Center for Digital Design and Online Learning (CDDOL). Felician University, USA, 2022.
- **Certificate**, “Online Course Instructor”, Center for Digital Design and Online Learning (CDDOL). Felician University, USA, 2021.
- **Certificate**, “Intelligent Agents for Managing Courses”, Center for Digital Design and Online Learning (CDDOL). Felician University, USA, 2022.
- **Certificate**, “Rubrics”, CDDOL. Felician University, USA, 2021.
- **Certificate**, “D2L Innovators”, Center for Digital Design and Online Learning (CDDOL). Felician University, USA, 2019.
- **Certificate**, “Sexual Harassment Prevention Training”, New York University, USA, 2021.
- **Certificate**, “Security Awareness Foundations”, KnowBe4, USA, 2022.
- **Certificate**, “Phishing Andrew's Inbox”, KnowBe4, USA, 2022.
- **Certificate**, “Phishing Foundations”, KnowBe4, USA, 2022.
- **Certificate**, “Secure Passwords”, KnowBe4, USA, 2022.
- **Certificate**, “Social Engineering”, KnowBe4, USA, 2022.

- **Certificate**, “Fraud Protection”, KnowBe4, USA, 2022.
- **Certificate**, “Student Mental Health Awareness, and Intervention”, Vector Solutions, USA, 2022.
- **Certificate**, “Youth Suicide Awareness, Prevention and Postvention”, Vector Solutions, USA, 2022.
- **Certificate**, “Outcome Based Education”, Center for Teaching and Learning. Universiti Teknologi Malaysia, 2014.
- **Certificate**, “Effective Teaching and Learning”, Center for Teaching and Learning. Universiti Teknologi Malaysia, 2014.
- **Certificate**, “Preparation of Examination Question”, Center for Teaching and Learning. Universiti Teknologi Malaysia, 2014.
- **Certificate**, “Preparation of Course Review Report and Program Review Report”, Centre for Teaching and Learning, Universiti Teknologi Malaysia, 2013.
- **Certificate**, “Induction Course for UTM International Staff”, Human Capital Development. Universiti Teknologi Malaysia, 2013.

Reviewer of Journals (See the rest in Appendix)

▪ **2025**

- IEEE Transactions on Knowledge and Data Engineering. IEEE. ISSN 1041-4347.
- IEEE Transactions on Neural Systems & 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. ID: sensors- 2639116.
- Transactions on Neural Systems & Rehabilitation Engineering. ISSN: 1534-4320. ID: 75.
- Journal of Surveillance, Security and Safety. OAE Publishing Inc. ISSN 2694-1015. ID: 31.
- The Journal of Supercomputing. ISSN 0920-8542. Springer.
- Artificial Intelligence Review. ISSN 1573-7462. Springer Nature.
- Scientific Reports. ISSN: 2045-2322. Nature Portfolio.
- Energy Strategy Reviews. ISSN: 2211-4688. Elsevier.
- IEEE ACM Transactions on Audio, Speech, and Language Processing. ISSN 2329-9304.

▪ **2023**

- Imaging Science Journal. Taylor & Francis. ISSN 1368-2199.
- IMDO Viruses Journal. ISSN 1999-4915. Manuscript ID_ jimaging-2417234.
- Journal of Cybersecurity and Privacy. ISSN 2624-800X. Manuscript ID jcp-2464905.

- Journal of Surveillance, Security and Safety. OAE Publishing Inc. ISSN 2694-1015. ID: 50
- Neural Computing and Applications. NCAA-D-22-055080. ISSN1433-3058.
- Psychiatry Research. ISSN 0165-1781. Manuscript Number PSY-D-23-01081.
- Neural Computing and Applications. ISSN1433-3058. NCAA-D-22-05846.
- Journal of Image and Graphics. Uni. of Portsmouth. ISSN: 23013699. Manuscript ID: JOIG-10405.
- Electronics. MDPI. ISSN: 2079-9292. Manuscript ID: electronics-2504061.
- Cryptography. MDPI. ISSN: 2410-387X. Manuscript ID: cryptography-2527271.

Examiner of PhD Students (See the rest in Appendix)

- *Universiti Putra Malaysia, Malaysia.* 2025. Mohammed Tanko Yahaya. Applying Neural Networks in Advancing Security Services for SaaS Applications.
- *University of Tasmania, Australia.* March 2019. Erfan Aghasian. A Privacy-Based Mechanism for Users' Information Scoring and Anonymisation across Multiple Online Social Networks
- *Universiti Putra Malaysia, Malaysia.* 2024. Gunavathi A/P Duraisamy. Access Control Model Based Testing for Data Security and Privacy on Multi-Tenant SaaS Application.
- *Murdoch University, Australia.* 2012. Nabahan Hamadneh. Analysis and Design of Active Queue Management for TCP-RED Congestion Control Strategies. School of Information Technology.
- *Universiti Putra Malaysia, Malaysia.* 2022. Najla'a Ateeq Mohammed Draib. Security Testing of Web Applications for Detecting and Removing Second-Order SQL Injection Vulnerabilities.
- *Anna University, Chennai, India.* 2012. Vellai Kannan. B. A Study on Message Exchanging Problems Using Numerical Computations of a Group of Matrices. Faculty of Science and Humanities.
- *Sardar Vallabhbhai National Institute of Technology, Surat. India.* July 2014. Nishant Doshi. Investigating Approaches for Ciphertext Policy Attribute Based Encryption.
- *Universiti Teknologi Malaysia, Malaysia.* 2012. Sajjad Dadkhah. Tamper Detection by Watermarking Technique.

Graduate Supervisor (See the rest in Appendix)

- *Universiti Teknologi Malaysia*
 - Somayeh Nikbakhsh. Rogue Access Points 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 Ghazi Zadeh. A Trust-Based Model for Cloud Using Federated Identify Architectures.

Graduate Examiner (See the rest in Appendix)

▪ ***Universiti Teknologi Malaysia***

- Reza Khaleghparast. A Method for Trust in Cloud Computing using Cloud Watermarking.
- Zahra Sadat Shams Dolatabadi. Digital Image Watermarking Based on Wavelet Transform Domain.
- Faranak Tohidi. Ownership Authentication by Digital Image Watermarking.

Supervisor of PhD Students (See the rest in Appendix)

▪ ***Universiti Teknologi Malaysia***

- Saman Shojae Chaeikar. Pixel Similarity Weight Statistical Steganalysis Algorithm for Detection of LSB Flipping Image Steganography, 2012- 2015.
- Mojtaba Alizadeh. A secure password authentication mechanism for seamless handover in proxy mobile IPv6 networks. 2014- 2015.
- Touraj Khodadadi. Graphical Password Pattern to increase security. 2013- 2014.
- Sasan Karamizadeh. Filtering Based Illumination Normalization Techniques for Face Recognition. 2013- 2015.

▪ ***Universiti Teknikal Malaysia Melaka***

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

Chair of International Conferences (See the rest in Appendix)

- 2023 International Conference on Cybersecurity (ICC2023). June 16-18, 2023. Manhattan, New York.
- The Sixth International Conference on Artificial Intelligence and Pattern Recognition. Sept. 16-18, 2019. Poland.

Committee of International Conferences (See the rest in Appendix)

- 4th Communication Technologies and Cloud Computing Conference. Edinburgh, UK. August 11-13, 2023.
- 2023 IEEE 12th International Conference on Educational and Information Technology. China.
- 11th International Conference on Educational and Information Technology 6-8 January, 2022. Chengdu, China.
- Reconciling Data Analytics, Automation, Privacy, and Security: A Big Data Challenge. October 17-18, 2022. Madrid, Spain.
- European Lasers, Photonics and Optics Technologies Summit. September 24-25, 2020. Paris, France.

Recent Publications (See the rest in Appendix)

- Xue, X., Shankar, A., Flammini, F. and **Zamani, M** (2024). Similarity Feature Construction for Semantic Sensor Ontology Integration via Light Genetic Programming. IEEE Internet of Things Journal.

- Karamizadeh, S., Moazen, M., Zamani, M, Manaf, A.A. (2024). Enhancing IoT-Based Smart Home Security Through a Combination of Deep Learning and Self-Attention Mechanism. Arab J Sci Eng.
- 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, S. Band, 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, Volume 266, 2023, 115572, ISSN 0147-6513.
- Khodadadi, T., **Zamani, M**, Chaeikar, S. S., Javadianasl, Y, Talebkhah M., and Alizadeh, M (2023). Exploring the Benefits and Drawbacks of Machine Learning in Cybersecurity to Strengthen Cybersecurity Defences.
- Tanwar, R, Nandal, N, **Zamani, M.**, Manaf, AA. (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., and Khodadadi, T. (2022). Comparison of Data Hiding Techniques for Video Watermarking Applications, 7th International Conference on Computer and Communication Systems. Wuhan.
- Tanwar, R, Pilia, U, **Zamani, M.**, Manaf, AA. (2022). Framework for Video Steganography using Integer Wavelet Transform and JPEG Compression. Future Internet. 14 (254).
- Khodadadi, T., Javadianasl, Y., Rabiei, F., Alizadeh, M., **Zamani, M.**, and Chaeikar, S. S(2021). A Novel Graphical Password Authentication Scheme with Improved Usability, 4th International Symposium on Advanced Electrical and Communication Technologies. Alkhobar.
- Arab, F., **Zamani, M.** (2021). Video Watermarking Schemes Resistance Against Tampering Attacks. 2021 International Conference on Electrical, Computer, Communications and Mechatronics Engineering. Mauritius.
- Tanwar R, Pilia U, **Zamani, M.**, Manaf AA. (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.
- Identity Theft and Prevention. Tajpour, A., **Zamani, M.** (2020). Information Security and Optimization, 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. Paper presented at IEEE 2nd International Conference on Information and Computer Technologies. Hawaii.
- 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, MDPI.
- Tanwar, R., Singh, K., **Zamani, M.**, Verma, A., and 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. Hindawi.

- Kavianpour, S., Shanmugam, B., Azam, S., **Zamani, M.**, Samy, G. N., and De Boer, F. (2019). A Systematic Literature Review of Authentication in Internet of Things for Heterogeneous Devices. Journal of Computer Networks and Communications. Hindawi.
- 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. Paper presented at the International Conference on Security and Management. Las Vegas.
- 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. Paper presented at the 20th Conference on Innovations in Clouds, Internet and Networks, Paris.
- Arab, F., & **Zamani, M.** (2017). VW16E: A Robust Video Watermarking Technique Using Simulated Blocks Multimedia Forensics and Security (Vol. 115, pp. 193-221).
- Javadinasl, Y., Manaf, A. A., & **Zamani, M.** (2017). A Practical Procedure for Collecting More Volatile Information in Live Investigation of Botnet Attack Multimedia Forensics and Security (Vol. 115 pp. 381-414).
- Karamizadeh, S., Abdullah, S. M., Shayan, J., **Zamani, M.**, & Nooralishahi, P. (2017). Taxonomy of Filtering Based Illumination Normalization for Face Recognition. Journal of Telecommunication, Electronic and Computer Engineering, 9(1-5), 135-139.
- Karamizadeh, S., Abdullah, S. M., **Zamani, M.**, Shayan, J., & Nooralishahi, P. (2017). Face Recognition via Taxonomy of Illumination Normalization Multimedia Forensics and Security (Vol. 115, pp. 139-160).
- Sadeghian, A., & **Zamani, M.** (2017). A Comprehensive Android Evidence Acquisition Framework Multimedia Forensics and Security (Vol. 115, pp. 349-364).

International Scientific Committee (See the rest in Appendix)

- 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.
- 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

(The rest of) Editor of Journals

- 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.
- MAYFEB Journal of Electrical and Computer Engineering, MAYFEB Technology Development.
- 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.

(The rest of) Supervisor of PhD Students

▪ *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 User. 2012- 2015.
- Yashar Javadian. Watermarking for authentication Volatile Information in Live Investigation of Botnet Attack. 2013- 2015.
- Mohammad Javad Rajabi. A Robust DCT Based Technique for Image Watermarking Against Removal Attacks. 2012- 2015.
- Ala' Abdulsalam Suleiman Alarood. 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.

(The rest of) Examiner of PhD Students

▪ *Universiti Teknologi Malaysia*

- Azuan Ahmad. Intrusions Detection Systems for Software-As-A-Service in Cloud Computing. Semester 201220132.
- Nur Hafizah binti Ghazali. Watermarking In Medical Images for Authentication. Semester 201120122.
- Mohammedsadeqh Aameri. A Framework for Partitioning and Execution of Extensive Applications in Mobile Cloud Computing. Semester 201320141.
- Nor Shahidayah Razali. Gait Analysis for Criminal Identification Based On Motion Capture. Semester 201220131.
- Fatemeh Meskaran. The Effect of Trust and Security on Online Purchase Intention in B2c E-Commerce. Semester 201220131.
- Seyed Hossein Nikou. Heuristics Optimization for Solving Variants of Multistage Logistics Network Problems. Semester 201220132.
- Ala Abdulhakim Abdulaziz. Gesture-based Password Authentication Prototype in Touch Screen Devices. Semester 201220132.
- Abdalrahman Salem Alfagi. Dynamic Watermarking for Web Applications and Securing Database Against SQL Injection Attacks. Semester 201220132.
- Mohd Shamir Hashim. Framework for National Cyber Malaysia. Semester 201120122.
- Mohammed Abbas Alameen Saleh. Development of Framework to Protect Web Application from Web-Based Botnet. Semester 201120122.

(The rest of) Publications

▪ *2016*

- Alizadeh, M., Abolfazli, S., **Zamani, M.**, Baharun, S., & Sakurai, K. (2016). Authentication in mobile cloud computing: A survey. *Journal of Network and Computer Applications*, 61, 59-80.
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- The Fifth International Conference on Artificial Intelligence and Pattern Recognition. September 17-19, 2018. Lodz, Poland.
- The 8th International Conference on Digital Information and Communication Technology and its Applications. September 17-19, 2018. Lodz, Poland.
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▪ **2017**

- The Sixth International Conference on E-Learning and E-Technologies in Education. Lodz, Poland. September 18-20, 2017.
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▪ **2015**

- Keynote Speaker, Increasing Citation and H-index by Improving Publication Seminar. UTM Kuala Lumpur. June 3, 2015.
- International Conference on Digital Information Processing, Data Mining, and Wireless. Dubai, UAE. 28-30 January 2015.
- The Fourth International Conference on Cyber Security, Cyber Welfare, and Digital Forensic. Jakarta, Indonesia. 29-31 October 2015.
- The Second International Conference on Computer Science, Computer Engineering, and Social Media. Poland. 21-23 September 2015.
- The Second International Conference on Information Security and Digital Forensics. Malaysia. 8-10 September 2015
- The Second International Conference on Data Mining, Internet Computing, and Big Data. Mauritius. 29-31 June 2015.
- The Third International Conference on Digital Enterprise and Information Systems. China. 16- 18 April 2015.
- International Conference on Electrical and Bio-medical Engineering, Clean Energy and Green Computing. UAE. 28-30 January 2015.
- The Second International Conference on Computer Graphics, Multimedia and Image Processing. Jakarta, Indonesia. 29-31 October 2015.

- The Second International Conference on Artificial Intelligence and Pattern Recognition. Shenzhen, China. 16-18 April 2015.
- The International Conference on Software Engineering, Mobile Computing and Media Informatics. Malaysia. 8-10 September 2015.
- The Second International Conference on Computer Science, Computer Engineering, and Education Technologies. Malaysia. 8-10 Sep.
- International Conference on Electrical and Electronic Engineering Telecommunication Engineering, and Mechatronics. Malaysia. 8-10 Sep 2015.
- The International Conference on Big Data, Internet of Things, and Zero-Size Intelligence. Malaysia. 8-10 September 2015.
- The International Conference on Green Computing, Intelligent and Renewable Energies. Malaysia. 8-10 September 2015.
- The International Conference on Software Engineering, Mobile Computing and Media Informatics. Malaysia. 8-10 Sep 2015.
- The Third International Conference on Digital Information Processing, E-Business and Cloud Computing. Mauritius. 29-31 June 2015.

▪ **2014**

- Fourth International Conference on Digital Information Processing and Communications. Malaysia. 18-20 March 2014.
- International Conference on Computing Technology and Information Management. Dubai, UAE. 9-11 April 2014.
- International Conference on Computer Security and Digital Investigation. Malaysia. 18-20 March 2014.
- International Conference on Computer Science, Computer Engineering, and Education Technologies. India. 14-16 October 2014.
- Third International Conference on Informatics Engineering and Information Science. Poland. 22-24 September 2014.
- International Conference on Computer Graphics, Multimedia and Image Processing. Malaysia. 17-19 November 2014.
- International Conference on Computer Science, Computer Engineering & Education Technologies. Malaysia. 17-19 November 2014.
- Second International Conference on Green Computing, Technology and Innovation. Malaysia. 18-20 March 2014.
- International Conference on Electrical, Electronics, Computer Engineering and their Applications. Malaysia. 17-19 November 2014.
- International Conference on Artificial Intelligence and Pattern Recognition. Malaysia. 17-19 November 2014.
- International Conference on Cyber-Crime Investigation and Digital Forensics. Malaysia. 17-19 November 2014.

- International Conference on Data Mining, Internet Computing, and Big Data. Malaysia. 17-19 November 2014.
- International Conference on Embedded, Pervasive and Cyber-Physical Systems. Malaysia. 17-19 November 2014.
- International Conference on Game-Theory, Development, and Applications. Malaysia. 18-20 March 2014.

▪ **2011-2013**

- International Conference on Advancements in Computing, Communication and Mobile Technology. Thailand. 3-6 July 2013.
- First International Conference on Green Computing, Technology and Innovation. Malaysia. 4-6 March 2013.
- International Conference on Electrical and Electronics Engineering, Clean Energy and Green Computing. UAE. 11 Dec 2013.
- International Conference on Informatics Engineering & Information Science. Malaysia. 12-14 November 2013.
- Second International Conference on e-Technologies and Networks for Development. Malaysia. 4-6 March 2013.
- Second International Conference on Cyber Security, Cyber Warfare and Digital Forensic. Malaysia. 4-6 March 2013.
- Second International Conference on Digital Enterprise and Information Systems. Malaysia. 4-6 March 2013.
- International Conference on Advanced Computer Science Applications and Technologies. Malaysia. 26-28 Nov 2012.
- International Conference on Informatics Engineering & Information Science. Malaysia. 14-16 Nov 2011.

(The rest of) Reviewer of Journals

▪ **2023**

- Electronics. MDPI. ISSN: 2079-9292. Manuscript ID: electronics-2558666.
- Electronics. MDPI. ISSN: 2079-9292. Manuscript ID: electronics-2547431.
- Electronics. MDPI. ISSN: 2079-9292. Manuscript ID: electronics-2491603.

▪ **2022**

- Frontiers Oncology. ISSN 2234-943X.
- International Journal of Chemical Engineering. Hindawi. ISSN 1687-8078. ID 8260373.
- Cryptography. MDPI. EISSN 2410-387X ID: cryptography- 1645604.
- SAGE: Journal of Information Science. ISSN: 0165-5515. ID: JIS-21-0811.
- Machines. MDPI. EISSN 2075-1702. ID: machines-1569986.

▪ **2021**

- Sensors. MDPI. ISSN 1424-8220. ID: sensors-1497565.
- Computers. MDPI. EISSN 2073-431X. ID computers-1462600.
- Energies. MDPI. ISSN 1996-1073. Manuscript ID: energies-1138213.
- Transactions on Neural Systems & Rehabilitation Engineering. ISSN: 1534-4320. ID: 45.
- IEEE Transactions on Industrial Informatics. ISSN 1551-3203. ID: TII-21-3037 & 4836.
- Future Internet. ISSN 1999-5903. Manuscript ID: futureinternet-1202146.
- IEEE Transactions on Neural Systems and Rehabilitation Engineering. ISSN 15344320. Manuscript # TNSRE-2021-00340.
- Computers, Materials & Continua. ISSN 1546-2226. ID 19550.
- Computer Communications. ISSN 0140-3664. Manuscript Number COMCOM-D-21-00565.

▪ **2020**

- IEEE Transactions on Industrial Informatics. ISSN: 1551-3203. Manuscript ID TII-20-1573.
- IEEE Internet of Things Journal. ISSN: 23274662. IoT-12345-2020.
- Journal of Ambient Intelligence and Humanized Computing. Springer Nature. ISSN 1868-5137. ID: AIHC-D-20-04569.
- IEEE/ACM Transactions on Audio Speech and Language Processing. ISSN:2329-9290. ID: T-ASL-08026-2020.
- Symmetry. MDPI. ISSN 2073-8994. Manuscript ID: symmetry-863753.
- Natural Hazards. Springer Nature. ISSN: 0921-030X. NHAZ-D-19-01439.
- ISPRS International Journal of Geo-Information. MDPI. ISSN 2220-9964. Manuscript ID ijgi-704584.
- Spatial Information Research. Springer. ISSN 2366-3286. SPIR-D-20-00003.
- Multimedia Tools and Applications. Springer Nature. ISSN: 1380-7501. MTAP-D-19-03588R1.
- Mathematics. MDPI. ISSN 2227-7390. Manuscript ID: mathematics-752558 & 811307 & 785573.
- Open Computer Science. Walter de Gruyter GmbH. ISSN: 2299-1093. OPENCS-D-20-00123.
- Advances in Computational Design, An International Journal. Techno Press. ISSN: 2383-8477. ID: ACD06717C & ACD05150C.

▪ **2019**

- IEEE Transactions on Industrial Informatics. IEEE. ISSN: 1551-3203. ID TII-19-2611.
- Multimedia Tools and Applications. Springer. ISSN 1380-7501. MTAP-D-19-03588.
- Energies. MDPI. ISSN 1996-1073. Manuscript ID: 428535 & 459778 & 564434.
- IEEE Access. IEEE. ISSN: 2169-3536. Manuscript ID Access-2019-30244, and 2019-27094.
- Applied Energy. ISSN 0306-2619. Elsevier. APEN-D-19-12579.
- Electronics. MDPI. ISSN 2079-9292. Manuscript ID: 447246, 576590.

- Big Data and Cognitive Computing. MDPI. ISSN 2504-2289. ID BDCC-519023.
- Sensors. MDPI. ISSN 1424-8220. ID sensors-475457, 620907, 643010.
- Energy and Buildings. Elsevier. ISSN 0378-7788. Ref ENB_2019_382.
- Symmetry. MDPI. ISSN 2073-8994. Manuscript ID: symmetry-540416.
- International Journal of Internet Technology and Secured Transactions. Inderscience. 1748-5703. Manuscript ID: 224506.
- Applied Sciences. MDPI. ISSN 2076-3417. ID: applsci-490261, applsci-606058.
- Environmental Research. Elsevier. ISSN: 0013-9351. ID No.: ER-19-1913.
- Majlesi Journal of Electrical Engineering. e-ISSN 2345-3796.
- Materials. MDPI. ISSN 1996-1944. Manuscript ID materials-675641.
- Science China Information Sciences. Science China Press. ISSN: 1674-733X.
- Engineering Applications of Computational Fluid Mechanics. Taylor & Francis. ISSN 1994-2060. ID TCFM-2019-0076, TCFM-2019-0100, and TCFM-2019-0081, TCFM-2019-0190.

▪ **2018**

- IET-Big Data Recommender Systems: Recent trends and advances.
- Concurrency and Computation Practice and Experience. Wiley. ISSN:1532-0634.
- Computers and Electrical Engineering. Elsevier. ISSN: 0045-7906. Ref: COMPELECENG_2018_2113.
- IEEE Transactions on Industrial Informatics. IEEE. ISSN: 1551-3203. Manuscript ID TII-18-2524.

▪ **2017**

- Algorithms. ISSN 1999-4893. MDPI AG. Manuscript ID algorithms-167050.
- IET Image Processing. ISSN 1751-9659. ID: IPR-2016-0984.

▪ **2016**

- Neural Computing and Applications. ISSN 0941-0643. Springer. NCAA-D-16-00085.
- EURASIP Journal on Wireless Communications and Networking. ISSN: 1687-1499. Springer. ID: JWCN-D-16-00062.
- KSII Transactions on Internet and Information Systems. eISSN: 1976-7277. TIISRP2016Jan0112.
- International Journal of Digital Content Technology and its Applications. ISSN 1975-9339.
- Computer and Information Science. ISSN: 1913-8989.
- EURASIP Journal on Wireless Communications and Networking. ISSN: 1687-1499. Springer. ID: JWCND1500484.
- Journal of Advanced Research in Computing and Applications. ISSN 2462-1927.
- Frontiers of Computer Science. ISSN 2095-2228. Manuscript ID FCS-15555.

▪ **2015**

- IEEE Sensors Journal. ISSN 1530-437X.
- IEEE Transactions on Emerging Topics in Computing. ISSN: 2168-6750.
- Springer: Neural Computing and Applications. ISSN: 0941-0643.
- Hindawi: Advances in Multimedia. ISSN 1687-5680.
- Oxford University Press: The Computer Journal. ISSN 0010-4620.

▪ **2014**

- IEEE Signal Processing Letters. ISSN: 1070-9908.
- Springer: Multimedia Systems. ISSN: 0942-4962.
- Elsevier: Advanced Engineering Informatics. ISSN: 1474-0346.
- Elsevier: Computer and Systems Science Special Issue on Optimization of Systems. ISSN: 0022-0000.
- IGI Global: International Journal of Data Warehousing and Mining. ISSN: 1548-3924.
- SAGE: Journal of Information Science. ISSN: 0165-5515.
- Next Generation Information Technology. ISSN: 2092-8637.
- Computer and Information Science. ISSN: 1913-8989.
- Computer Aided Engineering and Technology. ISSN: 1757-2657.
- Hindawi: International Journal of Distributed Sensor. ISSN: 1550-1329.
- Inderscience: International Journal of Computer Aided Engineering and Technology. ISSN: 1757-2657.
- International Journal of Engineering. ISSN: 1025-2495.
- SAGE: Journal of Information Science. ISSN: 01655515.
- Springer: Neural Computing and Applications. ISSN 0941-0643.
- IEEE Sensors Journal. ISSN 1530-437X.
- IEEE Transactions on Emerging Topics in Computing. ISSN: 2168-6750.
- Oxford University Press: The Computer Journal. ISSN 0010-4620.
- International Journal of Information Processing and Management. ISSN: 2093-4009.
- Journal of Communications and Information Sciences. ISSN: 2093-9671.
- WSEAS Transactions on Computers. ISSN: 1109-2750.
- WSEAS Transactions on Information Science and Applications. ISSN: 1790-0832.
- PLOS ONE Journal. ISSN: 1932-6203.
- Applied Mathematics & Information Sciences. ISSN: 1935-0090.
- Turkish Journal of Electrical Engineering & Computer. ISSN: 1300-0632.
- WSEAS Transactions on Signal Processing Journal. ISSN 1790-5052.

▪ **2010-2013**

- Academic Journals, Scientific Research and Essays. ISSN 1992-2248.

- Advances in Information Sciences and Service Sciences. ISSN: 2233-9345.
- Computer and Information Science. ISSN 1913-8989.
- Educational Research and Essays. ISSN 2315-7267.
- Informatics in Education. Vilnius University Institute of Mathematics and Informatics. ISSN1648-5831.
- International Journal for Quality in Health Care. ISSN 1353-4505.
- International Journal of Computer Aided Engineering and Technology. ISSN 1757-2657.
- International Journal of Digital Content Technology and its Applications. ISSN: 1975-9339.
- International Journal of Engineering. Materials and Energy Research Center. ISSN: 1025-2495.
- International Journal of Mobile Computing and Multimedia Communications. Info Resources Management Association. ISSN: 1937-9412.
- International Journal of Networks and Communications. ISSN: 2168-4936.
- International Journal of System Dynamics Applications. ISSN: 2160-9772.
- International Journal on Data Mining and Intelligent Information Technology Applications. ISSN: 2234-3660.
- International Research Journal of Library, Information and Archival Studies. ISSN 1030-5009.
- Journal of Convergence Information Technology. ISSN: 2233-9299.
- Journal of Languages and Culture. ISSN 2141-6540.
- Journal of Next Generation Information Technology. ISSN: 2092-8637.
- Journal of Research in International Business and Management. ISSN: 2251-0028.
- Open International Journal of Informatics. ISSN: 2289-2370.

Reviewer of International Conferences

- Future Technologies Conference 2016. San Francisco, United States. ID: 28, 52, 62, 215. 6-7 December 2016.
- SAI Intelligent Systems Conference 2016. ID: 276, 279, 283, 316, 322. London, UK. September 21-22, 2016.
- Science and Information Conference. Manuscript no. 66, 67. London, United Kingdom. 28-30 July 2015.
- International Symposium on Mathematical Sciences and Computing 2015. 19th - 20th May 2015, Ipoh, Malaysia. ID: iSMSC2015_IS-19.
- International Conference on Mobile Web Information Systems. Barcelona, Spain. ID: 44. 27-29 August 2014.
- European Conference of Computer Science. ID: 69208-109 (3208). Geneva, Switzerland. 29-31 December 2014.
- World Conference on Information Systems and Technologies. Algarve, Portugal. ID: 59, 90. 27-30 March 2013.

- Science and Information Conference. Manuscript no. 18, 86, 89. London, UK. October 7-9, 2013.
- WSEAS International Conference on Computers (17th). Greece. Paper ID: 70304-262 (7705), 70304-259 (7704). July 16-19, 2013.
- International Conference on Information Processing and Management. Korea. ID: ICIPMS10-2389004ACMRO. April 2013.
- International Conference on Information Technology and Computer Networks. ID: 69101-270.
- International Conference on Intelligent Information Processing. Korea. ID: ICIIPS16-2478011ACMRO. April 2013.
- International Conference on Advanced Computer Science Applications and Technologies. 1, 21, 28, 29, 85. 2013.
- The 2013 IEEE 78th Vehicular Technology Conference (VTC2013-Fall). ID: 161-22988. Las Vegas, USA. 2-5 September 2013.
- ICT Innovations Conference (5th). Ohrid, Macedonia. ID: 31, 60. 12-15 September 2013.
- International Conference on Multimedia Systems & Signal Processing. ID: 6754-009 (492). Finland. April 2012.
- International Conference on Soft Computing Models in Industrial and Environmental Applications. ID: 2350. Czech. 2012.
- International Conference on Advanced Computer Science Applications and Technologies. ID: 2, 3, 52, 83, 96. 2012.
- International Conference on Computer Sciences and Convergence Information Technology. Korea. ID: 1668003. Dec 2012.
- International Conference on Computing Technology and Information Management. Korea. ID: NCMS03-241002RO. April 2012.
- International Conference on Advanced Information Management and Service. Korea. ID: ICIPMRS02-048015O. Dec, 2011.
- International Conference on New Trends in Information Science and Service Science. ID: 016007O. Macao, October 2011.
- International Conference on Informatics Engineering & Information Science. ID: 33, 251, 107, 188. Malaysia. Nov 2011.

(The rest of) Graduate Supervisor

- *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.
 - Abdullah Ali Hassan Ghadawi. Information Assurance.
- ***Advanced Informatics School, Universiti Teknologi Malaysia, 2012***
- Ahmad Azarnik. A Visual-Password-Formed Method for User Authentication in Cloud Computing.
 - Ali Taherian. A Model to Enhance Security of Virtualization for Secure Cloud Computing.
 - Kambiz Mohammad Hosseini. A Secure Model for Live Virtual Machine Migration in Cloud.
 - Seyed Mostafa Mir Hosseini. A Radio Frequency Identification Model against Replay Attack.
 - Shawnim Ikram. E-Banking Authentication against Shoulder Surfing Attack.
 - Sima Boujarian. A Secure Model Based on Fragile Watermarking Scheme For Tamper Detection.
 - Parichehr Manouchehri Ardestani. Security of Ad Hoc Network against Collusion Attack.
 - Hamid Mohajeri. Study on VOIP Usage in Academic Environments.
 - Nadia Parsazadeh. Assessment of Success Factors In Information Systems Development Process.
 - Farab Alipanah. A Clustering Method in Wireless Sensor Network.
 - Amir Bijarchian. Efficiency in Enterprise Architecture.
 - Zavosh Abdollahzadeh Davani. A Steganography Method for Enhancing Key Management of ZigBee Network.
 - Wang Yuhao. A Security Framework for Distributed Database.
- ***Advanced Informatics School, Universiti Teknologi Malaysia, 2011***
- Nurulmasdenaidayu Binti Zainun Abidin. Designing Data Mining in Cloud Computing.
 - Noorlaili Izwana Binti Ibrahim. Analyzing Students Security Behavior against Malvertising.
 - Haslina Binti Haji Sahar. The Implementation of Human Firewall in securing the information asset.
 - Mohammad Javad Rajabi. Factors influencing information security management in an IT company.
- ***Advanced Informatics School, Universiti Teknologi Malaysia, 2010***

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

(The rest of) Graduate Examiner

▪ *Universiti Teknologi Malaysia, Kuala Lumpur, 2014*

- Nurul Afifah Rosle. Countermeasure Graphs for Network Security Risk Management.
- Amirul Zahwan Safar. Information Assurance.
- Surenthiran Krishnan. Information Assurance.
- Mohd Norfahmi bin Jaafar. Internal Penetration Testing via Social Engineering Approach.
- Fadzilawati Kaini. Information Assurance.
- Hozair Rizal. Information Assurance.
- Taqi Mohammed Ali. Secure Model for Mobile Phone Banking Applications Awareness Among.
- Munaliza Jaimun. Information Assurance.
- Najihah Yaakob. Steganography and Smart Card.
- Arwa Abdullah A Alshaya. Reversible Watermarking by Using Weighted Medians.
- Ratna Dewi Ibrahim. Enhanced Image-Based Authentication on Internet Banking Login.
- Nor Fazlinda Mohd Puad. Analyzing Data Leakage Protection in Email Communication for Government Sector.
- Diallo Abdoulaye Kindy. A Novel Model for Information Assurance
- Iman Ahmeid Moahmed. Information Assurance Framework.

▪ *Universiti Teknologi Malaysia, Kuala Lumpur, 2013*

- Mohsen Nasr Esfahani. Improving Search Engine Result on Non-English Language with Non-Algorithm Solutions.
- Moaad Abdulrahman M Khalil. Improving Information Assurance Awareness in Saudi Arabia.
- Mohamad Roshidi bin Rozali. Security Implementation Approach of the BYOD in Government Agencies.
- Khalid Mohamed Mirghani Mubarak. Design a Standard Framework for the Security Information.
- Mahathir Bin Sulaiman. Data Integrity Preservation in Cloud Computing using Data Loss Protection Tool.
- 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 Environment.

- Abang Abdul Rasyid Bin Abang Yusop. Botnets Behavior and Activity Detection on Android Operating System.
- Ehsan Ahmadizadeh. A Secure E-Voting System Based on Biometric.
- Hoda Soltanian Bojnord. Improving a Method for Detecting Sybille Attack in Vehicular Ad Hoc Network.
- Suliman Mohamed Mahmoud. Security Awareness Framework for Financial Management Information.
- Yashar Javadianasl. Extract Volatile Information in Live Investigation of Botnet Attack.
- Touraj Khodadadi. Recognition-Base Graphical Password System with Balance between Security and Usability Features.
- Rama Roshan Ravan. A Method for Querying Encrypted String Data.
- Joobin Moghimi Zadeh. Improving Error Correction Model in Steganography by Using Reed Solomon Code.

▪ ***Universiti Teknologi Malaysia, Kuala Lumpur, 2012***

- Ahad Akbar Abadi. Client to Client Attacks Protection in Cloud by 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 Different Secure VOIP Models Against Eavesdropping.
- Mona Liza Binti Jaafar. Analyzing data Leakage Protection in Geographical Information System.
- Mohd Azizul Zaid Bin Hj Md Yusof. Risk Management for Operation and Maintenance Facilities of a Power Plant.
- Muhammad Aniq Eastrarulkhair. Analyze Information Security Management System in Data Protection.
- Sallehuddin Bin Abdul Latif. Privacy Risk Categorization for Personal Data Protection in Unit Trust System.
- Mehrdad Mansouri. Evaluating Information Security Culture in Higher Learning Institution.
- Sasan Karamizadeh. Information Security Behaviors in Enhancing Security Awareness.
- Nor Hidayah Mohd Jawawi. Evaluation of User's Behavior in Handling Computer Incidents in Financial Institution.

▪ ***Universiti Teknologi Malaysia, Kuala Lumpur, 2011***

- Mohd Sofian Bin Ismail. Categorizing Security Risk Management in Outsourcing Information Technology System.

- Rohaida Ismail. Analyzing the Effectiveness of Information Security Policy in ISMS Standard.
- Mohd Zakry Omar. Evaluating the 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 Level of Risk in Handling Management Operation for Insurance Company.
- Khairul Afandy Bin Abu Bakar. Digital Forensic Data Collection in Cloud Computing Using Logical Model.
- Hazila Binti Hasan. Information Security Behavior in Managing Password.
- Nik Nurul Ain Binti Nik Suki. Face Recognition using Line Edge Map for e-Passport System.
- Putri Nor Ashiqin Binti Md Bakri. Trustworthiness of Securing Image 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 Bin Mohd Buang. Design and Implementation of Knowledge Management System in Digital Forensics.
- Nureddin Almukhtar Algdar. Evaluation Host-based and Networks-based Intrusion Detection System.
- Omar Ahmed Abdsalam. Evaluate IPv6 Security Features.
- Ali Ordi. A Novel Proof-of-Work Model Based on Pattern Matching to Prevent DOS attack in Infrastructure WLANs.
- Muhammad Fisal Zakaria. Assessment in Cloud Computing.
- Mahan Niknafs Kermani. Analysis of Group Key Agreement Protocol.
- Ahmad Husnudin Mohd Zawai. Assessing Identity Management (IDM) in Cloud Computing.
- Raub Bin Ghani. Standard Specification for Voice Anti Corruption Commission Investigation Process.
- Mohd Kamaruddin Md Din. Managing Digital Evidence in Cyber Crime.
- Rosli Mohd Yusof. External Data Storage Devices: Security Policy for Insurance Company.

▪ ***Universiti Teknologi Malaysia, Kuala Lumpur, 2010***

- Roza Honarbakhsh. Enhancing efficiency in Honey Pot.
- Mohammad Reza Rostami. Analysis and Detection of Peer to Peer Botnets Based on Note Behavior.
- Mohamed Sharafaldin Abdullah Babiker. Forensic Research System for Web Application Attacks Based on Honey Pot.
- Almunim Shakir Abdullah al-Duri. Information Privacy Ethics from an Islamic Perspective.
- Azuan Bin Ahmad. Developing Forensic Tool for PDF Files.
- Abdulrahman Nasser Ali Haidar. The Algorithm Design of Phishing Email Detection.
- Sajjad Dadkhah. Image Watermarking for Tamper Detection.
- Siti Dhalila Mohd Satan. Mobile Steganography Based on Least Significant Bit.

- Ala Abdulhakim Abdulaziz Al-Areqi. Dual Model for Biometric Identification System.
- Mahdi Mokhtabar Oghaz. A Botnet Detection System Using Heuristic Analysis Algorithm.
- Arifah A Razak. A Development of Hardening Database Checklist for the Malaysian Cohort.

(The rest of) Committee of International Conferences

▪ **2019**

- 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.

▪ **2018**

- The Fourth International Conference on Electronics and Software Science. November 5 - 7, 2018. Takamatsu, Japan.
- 17th International Conference on Information Technology Based Higher Education and Training. 26-28 April 2018. Algarve, Portugal.
- The Seventh International Conference on Informatics and Applications. November 5 - 7, 2018. Takamatsu, Japan.
- The 2018 International Conference on Security and Management. July 30-Aug 2, 2018, Las Vegas, USA.

▪ **2017**

- The Fourth International Conference on Computer Science, Computer Engineering and Social Media. Jordan. May 16-18, 2017.
- International Conference on Modern Education, Training and Management Innovation. Phuket, Thailand. April 21-22, 2017.
- The 10th Pervasive Technologies Related to Assistive Environments Conference. 21-23 June 2017. Rhodes, Greece.

▪ **2016**

- The 17th International Conference on Algorithms and Architectures for Parallel Processing. Granada, Spain. December 14-16, 2016.
- The International Conference on Computing Technology, Information Security and Risk Management. 3-5 March 2016. Dubai, UAE.
- International Conference on Algorithms and Architectures for Parallel Processing. Granada, Spain, December 14-16, 2016.

- The Sixth International Conference on Digital Information & Communication Technology & its Applications. July 21 - 23, 2016. Konya, Turkey.
- Universal Technology Management Conference. May 26 - 28, 2016. Minnesota, USA.

▪ **2015**

- The Fourth International Conference on Informatics & Applications. Takamatsu, Japan. 20-22 July 2015.
- Science and Information Conference 2015. London, U.K. 10-12 June 2015.
- World Conference on Information Systems and Technologies. Azores, Portugal. 1 - 3 April 2015.
- International Conference on Mobile Web Information Systems. Barcelona, Spain. 27-29 August 2014.
- The International Conference on Electronics and Software Science. 20-22 July 2015. Takamatsu, Japan.
- The Second International Conference on Digital Security and Forensics. 15-17 November 2015. Cape Town, South Africa.
- The Second International Conference on Information Security and Cyber Forensics. 15-17 November 2015. Cape Town, South Africa.
- South-East Europe Design Automation, Computer Engineering, Computer Networks, and Social Media Conference. 25-27 Sept 2015. Greece.
- The International Technology Management Conference. 26-28 May 2015. Hammamet, Tunisia.
- The Global Technology Management Conference. 15-17 July 2015. Minnesota, USA.
- The Second International Conference on Electrical and Electronics Engineering, Clean Energy and Green Computing. 26-28 May 2015. Tunisia.
- 17th International Conference on Information Security. 19 - 20 May 2015. Dubai, UAE.
- The Second Int. Technology Management Conference. 26 - 28 May 2016. Minnesota, USA.
- SAI Intelligent Systems Conference 2015 (IntelliSys 2015). 10-11 November 2015. London.
- The 15th International Conference on Algorithms and Architectures for Parallel Processing. Zhangjiajie, China. 18-20 November 2015
- International Conference on Advanced Computer Science Applications and Technologies. Kuala Lumpur, Malaysia. 8-10 December 2015.

▪ **2014**

- International Conference on Communications, Information and Network Security. London, United Kingdom. 21-22 August 2014.
- GS International Multi-Conference on Science and Technology. Dubai, UAE. 01-03 Aug 2014.
- International Conference ICT Innovations. Ohrid, R. Macedonia. 09 - 12 September 2014.
- International Conference on Computing Technology and Information Management. Dubai, UAE. 10-12 April 2014.
- International Conference on Education Technologies and Computers. Lodz, Poland. 22-24 September 2014.

- International Conference on Information and Telecommunications Engineering. Hong Kong, China. 17 - 18 November 2014.
- International Conference on Mobile Web Information Systems (MobiWis). Barcelona, Spain. 27-29 August 2014.
- World Conference on Information Systems and Technologies (WorldCIST'14). Madeira, Portugal. 15-18 April 2014.
- The International Conference on Management of computational and collective Intelligence in Digital EcoSystems. Saudi Arabia. 15 Sep 2014.
- Federated Conference on Computer Science and Information Systems. Warsaw, Poland. 7 – 10 September, 2014.

▪ **2013**

- ICT Innovations Conference (5th). Ohrid, Macedonia. 12-15 September 2013.
- Information & Communication Technology-EurAsia Conference 2013. Yogyakarta, Indonesia. 25-29 March 2013.
- International Conference on advanced Computing, Communication and Mobile Technology. Chiang Mai, Thailand. 3 - 6 July 2013.
- International Conference on Advancements in Computing Technology. Bangkok, Thailand. 29 - 31 Oct 2013.
- International Conference on Communications and Information Sciences. Busan, Republic of Korea. 26 - 28 Aug 2013.
- International Conference on Computer Sciences and Convergence Information Technology. Seoul, Korea. 28 - 30 Nov 2013.
- International Conference on Computing and Advanced Information Management. Jeju, Korea. 18-20 June 2013.
- International Conference on Computing and Convergence Technology. Gyeongju, Republic of Korea. 14 - 16 Oct 2013.
- International Conference on Computing and Networking Technology. Busan, Republic of Korea. 26 - 28 Aug 2013.
- International Conference on Computing Technology and Information Management. Jeju Island, Korea. 18 - 20 June 2013.
- International Conference on Cryptography, Coding and Information Security. Osaka, Japan. 14 - 15 October 2013.
- International Conference on Data Mining and Intelligent Information Technology Applications. Macao. 29 - 31 May 2013.
- International Conference on Defence and Security Sciences. Dubai, UAE. 2-3 December 2013.
- International Conference on Digital Content, Multimedia Technology and its Applications. Beijing, China. 9 - 11 July 2013.
- International Conference on E-Learning and E-Technologies in Education. Technical University of Lodz, Poland. 23-25 Sept 2013.

- International Conference on e-Learning. VSB-Technical University of Ostrava, Czech Republic. 8-10 July 2013.
- International Conference on Engineering Industries. Seoul, Rep. of Korea. 28 - 30 Nov 2013.
- International Conference on Frontier Engineering and Cloud Computing. Zhengzhou, China. 12-14 April 2013.
- International Conference on Informatics & Applications. Lodz, Poland. 23-25 Sept 2013.
- International Conference on Informatics and Creative Multimedia. Kuala Lumpur, Malaysia. 3-6 September 2013.
- International Conference on Informatics Engineering & Information Science. Kuala Lumpur, Malaysia. 14-16 Nov 2013.
- International Conference on Information Processing and Management. Seoul, Republic of Korea. 1 - 3 April 2013.
- International Conference on Information Processing, Management and Intelligent Information Technology. Seoul, Korea. 1 Apr 2013.
- International Conference on Information Science and Digital Content Technology. Beijing, China. 9 - 11 July 2013.
- International Conference on Information Sciences and Interaction Science. Beijing, China. 9 - 11 July 2013.
- International Conference on Intelligent Information Processing. Seoul, Republic of Korea. 1 - 3 April 2013.
- International Conference on Mobile, Communication and IT Convergence. Bangkok, Thailand. 29 - 31 Oct 2013.
- International Conference on Networked Computing. Busan, Korea. 26 - 28 Aug 2013.
- International Conference on New Trends in Information Science and Service Science. Republic of Korea. 18 - 20 June 2013.
- International Conference on New Trends in Information Science, Service Science and Data Mining. Macao. 29 - 31 May 2013.
- International Conference on Next Generation Information Technology. Jeju Island, Republic of Korea. 18 - 20 June 2013.
- International Conference on Soft Computing Models in Industrial and Environmental Applications. Spain. 11-13 Sept 2013.
- North-East Asia Symposium on Nano, Information Technology and Reliability. Beijing, China. 9 - 11 July 2013.
- Science and Information Conference. London, United Kingdom. 7-9 October 2013.
- The International Conference on Digital Information Processing, E-Business and Cloud Computing. Dubai, UAE. 23-25 Oct 2013.
- World Conference on Information Systems and Technologies. Algarve, Portugal. March 2013.
- International Conference on Digital Information Processing and Communications. Dubai, UAE. 30 Jan 2013.

▪ **2012**

- Advanced Machine Learning Technologies and Applications. Cairo University, Egypt. 8-10 Dec 2012.
- Green Wireless Sensor Networks. Ostrava, Czech Republic. 5-8 Sep 2012.
- International Conference on Advanced Computer Science Applications and Technologies. Malaysia. 26-28 Nov 2012.
- International Conference on Advanced Information Management and Service. Seoul, Korea. 3 – 5 Dec 2012.
- International Conference on Advancements in Computing Technology. Seoul, Korea. 3 – 5 Dec 2012.
- International Conference on Computing and Convergence Technology. Seoul, Korea. 3 – 5 Dec 2012.
- International Conference on Computing and Networking Technology. Gyeongju, Korea. 27 – 29 August 2012.
- International Conference on Computing Technology and Information Management. Seoul, Korea. 24 – 26 April 2012.
- International Conference on Computing, Networking and Digital Technologies. Gulf University, Bahrain. 11-13 Nov 2012.
- International Conference on Data Mining and Intelligent Information Technology Applications. Taipei. 23 - 25 Oct 2012.
- International Conference on Digital Content, Multimedia Technology and its Applications. Jeju, Korea. 26 – 28 June 2012.
- International Conference on Digital Information and Communication Technology and its Applications. Thailand. 16 May 2012.
- International Conference on Digital Information and Wireless Communications. Coimbatore, India. 8-10 March 2012.
- International Conference on E-Learning and E-Technologies in Education. Lodz, Poland. 24-26 Sept 2012.
- International Conference on Electronics, Biomedical Engineering and its Applications. Dubai, UAE. 7-8 Jan 2012.
- International Conference on Engineering Industry. Seoul, Korea. 3 – 5 Dec 2012.
- International Conference on Information Processing, Management and Intelligent Information Technology. Korea. 3 – 5 Dec 2012.
- International Conference on Information Science and Digital Content Technology. Jeju, Korea. 26 - 28 June 2012.
- International Conference on Intelligent Computational Systems. Dubai, UA Emirates. 7-8 January 2012.
- International Conference on Interaction Sciences: IT, Human and Digital Content. Jeju, Korea. 26 - 28 June 2012.
- International Conference on Mechanical, Automotive and Materials Engineering. Dubai, UAE. 7-8 January 2012.
- International Conference on Mobile IT Convergence. Gyeongju, Korea. 27 - 29 August 2012.

- International Conference on New Trends in Information Science and Service Science. Taipei, Taiwan. 23 - 25 Oct 2012.
- International Workshop on Security for Web-Applications & E-Commerce, SECWEB 2012. London, UK. 27 Sep 2012.
- World Congress on E-Commerce and Business on the Web. London, United Kingdom. August 27-29, 2012.
- International Conference on Digital Information Processing and Communications. Lithuania. 10-12 July 2012.

▪ **2010-2011**

- International Conference on Advancements in Electronics and Power Engineering. Pattaya, Thailand. 23-24 Dec 2011.
- International Conference on Advances in Electrical and Electronics Engineering. Pattaya, Thailand. 7-8 Oct 2011.
- International Conference on Computational Techniques and Artificial Intelligence. Pattaya, Thailand. 7-8 Oct 2011.
- International Conference on Computer Science and Information Technology. Pattaya Thailand. 17-18 Dec 2011.
- International Conference on Computer Technology and Development. Chengdu, China. 25-27 Nov 2011.
- International Conference on Data Mining and Intelligent Information Technology Applications. Macau, China. 24 – 26 Oct 2011.
- International Conference on Electrical, Electronics and Civil Engineering. Pattaya, Thailand. 17-18 Dec 2011.
- International Conference on Electronics, Biomedical Engineering and its Applications. Bangkok Thailand. 8-9 July 2011.
- International Conference on Emerging Trends in Computer and Image Processing. Pattaya, Thailand. 23-24 Dec 2011.
- International Conference on Engineering and Industries. Jeju Island, Korea. 29 Nov 2011.
- International Conference on Informatics Engineering and Information Science. Kuala Lumpur, Malaysia. 14-16 Nov 2011.
- International Conference on Intelligent Computational Systems. Bangkok, Thailand. 8-9 July 2011.
- International Conference on Mechanical, Automotive and Materials Engineering. Bangkok, Thailand. 8-9 July 2011.
- International Conference on Mechanical, Production and Automobile Engineering. Pattaya, Thailand. 17-18 Dec 2011.
- International Conference on Networked Computing and Advanced Information Management. Korea. 21-23 June 2011.
- International Conference on Networked Computing. Gumi, Korea. 26-28 September 2011.

- International Conference on New Trends in Information Science and Service Science. Macao. 24-26 Oct 2011.
- International Conference on Next Generation Information Technology. Gyeongju, Korea. 21-23 June 2011.
- International Conference on Trends in Mechanical and Industrial Engineering. Pattaya, Thailand. 23-24 Dec 2011.
- North-East Asia Symposium on Nano, Information Technology and Reliability. Macao. 24 – 26 October 2011.
- International Conference on Advanced Information Management and Service. Seoul, Korea. Nov 30 2010.
- International Conference on Mechanical, Automobile and Robotics Engineering. Pattaya, Thailand. 7-8 Oct 2011.

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.