DR. SYED HAMID HUSSAIN MADNI

📞 📨 **+60185716579**   🌐 **www.madni4research.com**   ✉ **madni4all@yahoo.com**

OBJECTIVE:

To achieve a suitable/appropriate position in a professional and esteemed institution/organization with my professional and interpersonal skills to contribute in the institution's/organization's success and live a peaceful life. I am suitable for a dynamic work environment that encourages professional growth and provides opportunities to work collaboratively on diverse interesting projects, research and innovations. My analytical mindset and troubleshooting skills enable me to effectively identify and solve complex problems, ensuring high-quality services and optimal outcomes for academic pursuits. Consistently strive to create a challenging and engaging learning environment in which students become life-long scholars and learners. Expectation record of research success with multiple published articles.

PERSONAL INFORMATION:

Passport:	AH0400873
Gender:	Male
Date of Birth:	April 04, 1983
Nationality:	Pakistani
Religion:	Islam
Marital Status:	Single
Contact Email:	madni4all@yahoo.com
Official Email:	s.h.h.madni@soton.ac.uk

PROFILES:

	Links / Keywords	No. of Citation / Score
ORCID ID:	0000-0002-3816-1382	-
LinkedIn:	Dr. Syed Hamid Hussain Madni	-
Google Scholar:	SHH Madni	1800+
Scopus:	Madni S. H. H.	1150+
Research Gate:	Hamid Madni	1016

RESEARCH INTEREST:

Artificial Intelligence, Computer Networks, Cybersecurity, Cloud Computing, Internet of Things, Industrial IoT, Big Data, E-Learning, E-Health, Analysis of Algorithms and Information Systems.

PERMIT / LICENCE:

ID	Permit	Organization
PM/IPTS/2023/10/0268	Teaching Permit	Ministry Of Higher Education (MOHE), Malaysia

ACADEMICS:

Degree	Major	Institute	Year
PhD	Computer Science	Universiti Teknologi Malaysia, Johor Bahru, Malaysia	2014-2020
	Thesis Title: Resource Scheduling Techniques Optimization Using Cuckoo Search Based Algorithm for Cloud Computing		
MS(CS)	Computer Science in Networks and Telecommunications	Federal Urdu University Arts, Science & Technology, Islamabad	2007-2009
	Major Subjects: Advanced Computer Architecture, Advanced Analysis of Algorithms, Mobile Communication and Networks, Adhoc & Sensor Networks, Cryptography, Advanced Computer Networks, Simulation and Modeling, and Advanced Operating Systems, etc.		
BS(IT)	Information Technology	Allama Iqbal Open University, Islamabad	2001-2005
	Major Subjects: Computer Architecture, Data Structure, Digital Logic Design, Data Communication and Computer Networks, Operating System, Programming in C, C++ and Java, Web Designing, Web Engineering-I & II, Introduction to E-Business, Mathematics for Computing, Economics, Statistics, Discrete Mathematics, etc.		
HSSC	General Science	College of Information and Technology Saddar, Rawalpindi	1999-2001
SSC	Science Group	F.G Quaid-i-Azam Public School Scheme-III Chaklala, Rawalpindi	1989-1999

WORK EXPERIENCE:

Position	Organization
Assistant Professor https://www.southamptonmalaysia.edu.my/ ➢ Research, Teaching and Learning for the School of Electronic and Computer Science, UoSM.	**School of Electronic and Computer Science, University of Southampton Malaysia.** 2023 – Current
Senior Lecturer /Assistant Professor (Visiting) https://space.utm.my/ ➢ Teaching and Learning for the School of Professional and Continuing Education, UTM.	**School of Professional and Continuing Education (SPACE), Universiti Teknologi Malaysia.** 2023 – Current
Senior Lecturer /Assistant Professor https://engineering.utm.my/computing/ ➢ Research, Teaching and Learning for the Faculty of Computing, UTM.	**Faculty of Computing, Universiti Teknologi Malaysia.** 2020 – 2023
Post Doctorate https://engineering.utm.my/computing/ ➢ Research, Teaching and Learning for the Faculty of Computing, UTM.	**Faculty of Computing, Universiti Teknologi Malaysia.** 2020 (Two Months)
Research Assistant http://www.fuuastisb.edu.pk ➢ Incharge Coordinator Cell, Academic Officer, and Morning Coordinator.	**Federal Urdu University Arts, Science & Technology, Islamabad.** 2010 - 2018

Visiting Lecturer (Part-Time) http://www.fuuastisb.edu.pk ➢ Taught Courses like Programming Languages, C++, OOPS, E-Commerce, etc.	**Federal Urdu University Arts, Science & Technology, Islamabad.** 2010 – 2013
Visiting Instructor (Part-Time) http://www.giitrwp.edu.pk ➢ Taught Courses like Programming Languages, E-Commerce, Web Programming, etc.	**Government Institute of Information Technology Kohatti Bazar, Rawalpindi. (TEVTA)** 2010 – 2013
Member of the Academic Department (Volunteer) http://www.isc.utm.my/iss/ ➢ Arranging workshops and seminars for Postgraduate Students in UTM.	**International Students Society –Central (ISS-Central) Universiti Teknologi Malaysia.** 2014 – 2015
Graduate Assistantship (GA) Scheme Award http://www.utm.my/sps/ ➢ Assigning the Faculty administrative jobs, conducting tutorials, laboratory works, studio, demonstration and/or fieldwork for postgraduate and undergraduate students in UTM.	**School of Graduate Studies (SPS), Universiti Teknologi Malaysia.** 2015 – 2016
General Secretary (Volunteer) http://www.utm.my/group/iss-pakistan/ ➢ Organizing Pakistani Events at UTM for Pakistani Students.	**International Students Society –Pakistan (ISS-Pak) Universiti Teknologi Malaysia.** 2015 – 2016
Treasurer (Volunteer) http://comp.utm.my/pgss/ ➢ Organizing Workshops and Seminars for Postgraduate Students at the Faculty of Computing, UTM.	**Post Graduate Student Society –Faculty of Computing (PGSS-FC) Universiti Teknologi Malaysia.** 2015 – 2016

RESEARCH PUBLICATIONS (CUMULATIVE IF 52.70; H-INDEX 19; I10-INDEX 23):

Role	Research Articles / Publications
Principal Author	**Madni, S.H.H.,** A/L Pathmanatan, L., Faheem, M., Shahzad, H.M.F. and Shah, S., **(2025).** Exploring optimizer efficiency for facial expression recognition with convolutional neural networks. *The Journal of Engineering*, 2025(1), p.e70060. **(ISI IF = 0.8, Q3)**
	Madni, S.H.H., Faheem, M., Younas, M., Masum, M.H. and Shah, S., **(2024).** Critical Review on Resource Scheduling in IaaS Clouds: Taxonomy, Issues, Challenges, and Future Directions. *The Journal of Engineering*, 2024(8), p.e12420. **(ISI IF = 0.8, Q3)**
	Madni, S.H.H., Ali, J., Husnain, H.A., Masum, M.H., Mustafa, J Shuja, J., Maray, M. and Hosseini, S., **(2022**). Factors Influencing the Adoption of IoT for E-Learning in Higher Educational Institutes in Developing Countries. *Frontiers in Psychology*, 13, 1-22 **(ISI IF = 4.232, Q1)**
	Madni, S.H.H., Abd Latiff, M.S. and Abdullah, A.H., **(2020).** Reliability aware Resource Scheduling based on Fuzzy Cuckoo Search (FCS) Technique for IaaS Cloud. *In IOP Conference Series: Materials Science and Engineering*, 884(1), 012053. IOP Publishing. **(Scopus).**

	Madni, S. H. H., Latiff, M. S. A., Abdulhamid, S. i. M. and Ali, J. **(2019).** Hybrid Gradient Descent Cuckoo Search (HGDCS) Algorithm for Resource Scheduling in IaaS Cloud Computing Environment. *Cluster Computing,* 22(1), 301-334. **(Springer, ISI IF = 1.601, Q2)**
	Madni, S. H. H., Latiff, M. S. A., Ali, J. and Abdulhamid, S. i. M. **(2019).** Multi-Objective oriented Cuckoo Search Optimization based Resource Scheduling Algorithm for Clouds *Arabian Journal of Science and Engineering*. 44(4), 3585-3602. **(Springer, ISI IF = 1.092, Q3)**
	Madni, S. H. H., Latiff, M. S. A., Abdullahi, M, Abdulhamid, S. i. M. and Usman, M. J. **(2017).** Performance Comparison of Heuristic Algorithms for Task Scheduling in IaaS Cloud Computing Environment. *PLOS One*, 12(5), e0176321. **(ISI IF = 2.806, Q1)**
	Madni, S. H. H., Latiff, M. S. A., Coulibaly, Y., and Abdulhamid, S. i. M. **(2017).** Recent Advancements in Resource Allocation Techniques for Cloud Computing Environment: A Systematic Review. *Cluster Computing,* 20(3), 2489-2533. **(Springer, ISI IF = 2.040 Q2)**
	Madni, S. H. H., Latiff, M. S. A. and Abdulhamid, S. i. M. **(2017).** Optimal Resource Scheduling for IaaS Cloud Computing using Cuckoo Search Algorithm. *Sains Humanika*, 9(1-3), 71-76. **(Google Scholar)**
	Madni, S. H. H., Latiff, M. S. A. and Abdulhamid, S. i. M. **(2016).** Optimal Resource Scheduling Technique for IaaS Cloud Computing. *6th International Graduate Conference on Engineering, Science and Humanities (IGCESH2016). Universiti Teknologi Malaysia, Johor Bahru, Malaysia,* 399-401. **(Conference)**
	Madni, S. H. H., Latiff, M. S. A., Coulibaly, Y. and Abdulhamid, S. i. M. **(2016).** Resource Scheduling for Infrastructure as a Service (IaaS) in Cloud Computing: Challenges and Opportunities. *Journal of Network and Computer Applications,* 68, 173-200. **(Elsevier, ISI IF = 2.331, Q1)**
	Madni, S. H. H., Latiff, M. S. A., Coulibaly, Y. and Abdulhamid, S. i. M. **(2016).** An Appraisal of Meta-Heuristic Resource Allocation Techniques for IaaS Cloud. *Indian Journal of Science and Technology*, 9(4), 1-14. (**Scopus**)
Co-Author as a Supervisor	Shah, S., Samah, A. A., Hashim, S. Z. M., Harun, S., Shah, Z. B. A., Muchtar, F, B. and **Madni, S. H. H. (2026).** Multi-Omics Integration Methods for AI-Based Breast Cancer Molecular Subtypes Classification. *International Journal of Advanced Computer Science and Applications,* 17(1), 343 – 353. **(SAI, ISI IF = 0.900, Q3)**
	Shah, S., **Madni, S. H. H.,** Hashim, S. Z. M., Faheem, M. and Shahzad, H.M.F., **(2025).** Bridging the Gap: Empowering Manufacturing and Production Small Medium Enterprises through Industrial Internet of Things Adoption Model. *IET Collaborative Intelligent Manufacturing,* 7(1), p.e70021. **(Wiley, ISI IF = 2.5, Q2)**
	Shah, S., **Madni, S. H. H.,** Hashim, S. Z. M., Samah, A. A., Ayaz, M., Ullah, S. and Faheem, M., **(2025).** Requirements Evaluation Framework for a Phase-Driven AIoT Architecture for Remote Patient Monitoring. *The Journal of Engineering*, 2025(1), p.e70149. **(Wiley, ISI IF = 1.0, Q3)**
	Shah, S., **Madni, S. H. H.,** Hashim, S. Z. B. M., Ali, J. and Faheem, M., **(2024).** Factors Influencing the Adoption of Industrial Internet of Things for the Manufacturing and Production Small and Medium Enterprises in Developing Countries. *IET Collaborative Intelligent Manufacturing,* 6(1), p.e12093. **(Wiley, ISI IF = 8.2, Q1)**
	John, A., Isnin, I.F.B., **Madni, S.H.H.** and Faheem, M., **(2024).** Intrusion detection in cluster-based wireless sensor networks: Current issues, opportunities and future research directions. *IET Wireless Sensor Systems*, 1-40. **(Wiley, ISI IF = 1.5, Q3)**
	John, A., Isnin, I.F.B., **Madni, S.H.H.** and Faheem, M., **(2024).** Cluster-Based Wireless Sensor Network Framework for Denial-of-Service Attack Detection Based on Variable Selection Ensemble Machine Learning Algorithms. *Intelligent Systems with Applications*, p.200381. **(Elsevier, Scopus)**

	John, A., Isnin, I.F.B., **Madni, S.H.H.** and Muchtar, F.B., **(2024).** Enhanced Intrusion Detection Model Based on Principal Component Analysis and Variable Ensemble Machine Learning Algorithm. *Intelligent Systems with Applications*, p.200442. **(Elsevier, Scopus)**
	Shah, S., **Madni, S.H.H.,** Hashim, S.Z.B.M., Ali, J., Faheem, M. and Ali, N.A., **(2023),** December. Assessing the Prioritization of Key Influencing Factors for Industrial IoT Readiness in SMEs. *In International Conference of Reliable Information and Communication Technology* (pp. 252-262). Cham: Springer Nature Switzerland. **(Springer Book Chapter / ISI)**
	Velirsamy, P., **Madni, S.H.H.,** Faheem, M. and Othman, S.H.B., **(2023),** June. Cybersecurity Model for Mobile and Web Application Banking Sectors. *In International Conference on Advanced Communication and Intelligent System*s (pp. 271-279). Cham: Springer Nature Switzerland. **(Springer Book Chapter / ISI)**
	John, A., Isnin, I.F. and **Madni, S.H.H., (2023).** Current Security Threats in Applications of Wireless Sensor Network. *International Journal on Engineering, Science and Technology*, 5(3), pp.255-272. **(Google Scholar)**
Co-Author	Abdullah, H.S., Ali, N.H., Jassim, A.H. and **Madni, S.H.H., (2025).** An Analytical Comparison of the Behavior of Machine Learning and Deep Learning in Stock Market Prediction. *Baghdad Science Journal,* 22(1). **(ISI IF = 1.2, Q3)**
	Aldeen, Y.A.A.S., Sadiq, A.T., Abed, A.E., Hussain, O.F. and Madni, S.H.H., **(2025).** Improved Harmony Search Algorithm for SDN Controller Placement. *Iraqi Journal for Computer Science and Mathematics*, 6(2), p.12. **(Scopus)**
	Faheem, M., Al-Khasawneh, M.A., Khan, A.A. and **Madni, S.H.H., (2024).** Cyberattack Patterns in Blockchain-Based Communication Networks for Distributed Renewable Energy Systems: A study on Big datasets. *Data in Brief*, p.110212. **(ISI IF = 1.2, Q4)**
	Faheem, M., Raza, B., Bhutta, M.S. and **Madni, S.H.H., (2024).** A blockchain-based resilient and secure framework for events monitoring and control in distributed renewable energy systems. *IET Blockchain*. **(Scopus)**
	Ali, J., **Madni, S.H.H.,** Jahangeer, M.S.I. and Danish, M.A.A., **(2023).** IoT Adoption Model for E-Learning in Higher Education Institutes: A Case Study in Saudi Arabia. *Sustainability,* 15(12), p.9748. **(ISI IF = 3.367, Q2)**
	Ali, J., **Madni, S.H.H.,** Husnain, H.A. and Alam, F., **(2023).** Barriers Identification for Effecting on Bim Adoption in Re-Engineering of Construction Business Practices in Developing Countries. *International Journal of Online and Biomedical Engineering - iJOE*, 19(01), p.239. **(ISI IF = 0.23, Q4)**
	Aldeen, Y.A.A.S., Kadhim, S.N., Kadhim, N.N. and **Madni, S.H.H., (2023).** A Novel Distance Vector Hop Localization Method for Wireless Sensor Networks. *Journal of Intelligent Systems*, 32(1), p.20230031. **(ISI IF = 3.0, Q3)**
	Abdulhadi, H.M., Aldeen, Y.A.A.S., Yousif, M.A. and **Madni, S.H.H., (2023).** Enhancing Smart Cities with IoT and Cloud Computing: A Study on Integrating Wireless Ad Hoc Networks for Efficient Communication. *Baghdad Science Journal,* 20(6 (Suppl.)), pp.2672-2672. **(ISI IF = 0.6, Q4)**
	Ali, J., Singh, A.K., **Madni, S.H.H.** and Husnain, H.A., **(2023).** Unlocking the Potential of IoT in E-Heath: Analyzing the Impact of E-Commerce and Other Influential Factors. *Acta Biomedica,* 94(1), 2078-2128. **(Scopus)**
	Tharwat, M.E.T., Fudzee, M.F.M., Kasim, S., Ramli, A.A. and **Madni, S.H.H., (2022).** Friendship Prediction in Social Networks Using Developed Extreme Learning Machine with Kernel Reduction and Probabilistic Calculation. *In International Conference on Soft Computing and Data Mining,* pp. 56-68. Springer, Cham, 2022. **(Springer Book Chapter / ISI)**

	Sahar, G., Bakar, K.A., Zuhra, F.T., Rahim, S., Bibi, T. and **Madni, S.H.H., (2021).** Data Redundancy Reduction for Energy-Efficiency in Wireless Sensor Networks: A Comprehensive Review. *IEEE Access.* 9, 15759-88 **(ISI IF = 3.899, Q2)**
	Aliyu, A., Abdullah, A.H., Kaiwartya, O., **Madni, S. H H.,** Joda, U.M., Ado, A. and Tayyab, M., **(2020).** Mobile Cloud Computing: Taxonomy and Challenges. Journal of Computer Networks and Communications, 1-23, **(Hindawi, ISI IF = 0.034, Q4)**
	Zubair, A. A., Razak, S. B. A., Ngadi, M. A. B., Ahmed, A. and **Madni, S.H.H., (2019).** Convergence-Based Task Scheduling Techniques in Cloud Computing: A Review. In Proceedings on the *International Conference of Reliable Information and Communication Technology,* Springer, Cham, 227-234. **(Springer Book Chapter / ISI)**
	Younas, M., Jawawi, D.N.A., Ghani, I., Shah, M.A., Khurshid, M.M. and **Madni, S.H.H., (2019).** Framework for Agile Development Using Cloud Computing: A Survey. *Arabian Journal for Science and Engineering,* 44(11), 8989-9005. **(Springer, ISI IF = 1.092, Q3)**
	Hussain, M.A., Latiff, M.S.A., **Madni, S.H.H.,** Rasi, R.Z.R.M. and Othman, M.F.I., **(2019).** Concept of Blockchain Technology. *International Journal of Innovative Computing,* 9(2), 51-57. **(Google Scholar)**
	Abdulhamid, S. i. M., Latiff, M. S. A., **Madni, S. H. H.** and Abdullahi, M. **(2018).** Fault Tolerance aware Scheduling Technique for Cloud Computing Environment using Dynamic Clustering Algorithm. *Neural Computing and Applications*, 29 (1), 279–293. **(Springer, ISI IF = 4.215, Q1)**
	Abdulhamid, S. i. M., Latiff, M. S. A., Gaddafi, A., and **Madni, S. H. H. (2016).** Secure Scientific Applications Scheduling Technique for Cloud Computing Environment Using Global League Championship Algorithm. *PLOS One*, 11(7), e0158102. **(ISI IF = 3.057, Q1)**
	Abdulhamid, S. i. M., Latiff, M. S. A., **Madni, S. H. H.** and Oluwafemi, O. **(2015).** A Survey of League Championship Algorithm: Prospects and Challenges. *Indian Journal of Science and Technology*, 8(S3), 101-110. **(Scopus)**
Editor Book	Arshad, M. M. and **Madni, S. H. H. (2024).** Interconnected Worlds of Pervasive Computing, IoT, and Networking. *Penerbit UTM Press, Universiti Teknologi Malaysia*, ISBN 978-983-52-2003-6.

RESEARCH GRANTS/PROJECTS:

Research Project's Name	Organizations
A New Graph Convolutional Neural Network Cancer Subtypes Classification Model Using Sample Network Fusion of Multi-Omic Data. FRGS/1/2023/ICT02/UTM/03/1 2024-26 **(Ongoing).**	**Universiti Teknologi Malaysia.**
Impact of Industrial Internet of Things Adoption in Production and Manufacturing Environment: Evidence in Saudi Arabia. IFRS8253 2023-24 **(Completed).**	**Saudi Electronic University.**
Securing Integrity of Big Data in Cloud Computing using Algebraic Signatures. IFRS8194 2023-24 **(Completed).**	**Saudi Electronic University.**
The Internet of Things Adoption in E-Learning for Higher Educational Institutes in Saudi Arabia. IFRS7873 2021-22 **(Completed).**	**Saudi Electronic University.**
Acceptance and Adoption of Internet of Things in E-Health System: Evidence in Saudi Arabia. IFRS8025 2021-22 **(Completed).**	**Saudi Electronic University.**
Identification of Barriers to Implement BIM System in Reengineering of Construction Business Practices in Saudi Arabia. IFRS8023 2021-22 **(Completed).**	**Saudi Electronic University.**

	The Readiness Factors of E-Learning for Implementation of Internet of Things for Higher Learning Institutions in Saudi Arabia. ELI-CC120130 2020-21 (**Completed**).	**Saudi Electronic University.**
	Global Scheduling of Internet of Things Applications on Cloud Platform for End Users' Satisfaction Based on Enhanced Meta-heuristic Schemes. 2019-20 (**Completed**).	**Universiti Teknologi Malaysia.**
	IoT-Based Scalable Intelligent Central Control System for Nutrient Management in Recirculating Hydroponic Culture. 2019-2020 (**Completed**).	**Universiti Teknologi Malaysia.**

RESEARCH SERVICES:

Role	Journals/Conferences
Editorial Board Member / Academic Editor	PLOS One, ISSN 1932-6203 (Online)
	Discover Applied Sciences, Springer Nature. ISSN 3004-9261 (Online)
	Scientific Reports, Springer Nature. ISSN 2045-2322 (Online)
	Journal of Engineering and Science Research, ISSN 2289-7127 (Online)
Keynote Speaker	2nd International Conference on Advanced STEAM Education (ICASE-2024)
	7th International Conference on Future Smart Cities (FSC-2024)
	9th International Electrical Engineering Conference (IEEC-2024)
	2nd International Interdisciplinary Conference on Language Teaching (IICLT-2024)
	2nd International Conference on Recent Advance in Computer Science & Information Technology (RACSIT-2024)
	1st International Conference on Advanced STEAM Education (ICASE-2023)
	3rd International Conference on Computational and Social Sciences (ICCSS-2015)
Program / Session Chair	17th Postgraduate Annual Research Seminar (PARS2025), Faculty of Computing, Universiti Teknologi Malaysia (UTM).
	10th ASIA International Conference (AIC 2024) Bella Vista Resort Langkawi, Malaysia
	International Conference on Green Energy, Computing and Intelligent Technology (Gen-CITy 2024).
	9th ASIA International Conference (AIC 2023) Bella Vista Resort Langkawi, Malaysia
	4th International Conference on Applied Computing (ICAC 2023) Sunway Big Box Hotel, Johor Bahru, Malaysia
	7th ASIA International Multidisciplinary Conference (AMIC 2023) Pulai Spring Resort, Johor Bahru, Malaysia
	8th ASIA International Conference (AIC 2022) Kuala Lumpur Convention Center (KLCC), Malaysia
	International Laser Technology and Optics Symposium 2022 (iLATOS 2022)
	4th Scientia Academia International Conference (4th SAICon-2021) – Online
	5th ASIA International Multidisciplinary Conference (AMIC 2021) – Online
	3rd Scientia Academia International Conference (3rd SAICon-2020) – Online
	4th ASIA International Multidisciplinary Conference (AIMC 2020) – Online

Reviewer	6th ASIA International Conference (AIC 2020) – Online
	IEEE Transactions on Cloud Computing, IEEE, ISSN 2168-7161(Online)
	Evolutionary Intelligence, Springer, ISSN 1864-5917(Online)
	Computer Science Review, Elsevier, ISSN 1574-0137(Online)
	Cluster Computing, Springer, ISSN 1573-7543 (Online)
	Journal of Scheduling, Springer, ISSN 1099-1425(Online)
	Global Journal of Health Science (GJHS), ISSN 1916-9744(Online)
	IEEE Access, ISSN 2169-3536
	International Journal of Electrical and Computer Engineering (IJECE), ISSN 2320-9798(Online)
	International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), ISSN 2320-9798(Online)
	Informing Science: The International Journal of an Emerging Transdiscipline (InformingSciJ), ISSN 1521-4672(Online)
	International Conference on Information and Communication Technology and Its Applications (ICTA) 2016, Nigeria
	InSITE 2017: Informing Science + IT Education Conferences: Vietnam (InSITE 2017), Vietnam

RESEARCH/PROJECT SUPERVISOR:

Thesis Title	Organizations	Level
Anomaly Network Intrusion Detection Model on Cluster-Based Wireless Sensor Networks (2025).	**Universiti Teknologi Malaysia.**	**PhD**
Breast Cancer Molecular Subtypes Classification Based on Enhanced Convolutional Graphical Neural Network Using Multi-Omics Data **(In Progress).**	**Universiti Teknologi Malaysia.**	**Masters**
Cybersecurity Readiness Framework for Mobile and Web Applications among Malaysian SME Banks (2023).	**Universiti Teknologi Malaysia.**	
AI-Enhanced Network Security Assessment and Awareness Platform **(In Progress).**	**University of Southampton Malaysia.**	**Degree**
Mental Health Condition Classification Based on Social Media Posts **(In Progress).**	**University of Southampton Malaysia.**	
Speech Emotion Recognition in Telehealth Calls **(In Progress).**	**University of Southampton Malaysia.**	
Chess# - A Gamified Bridge Between Strategy and Programming (2025).	**University of Southampton Malaysia.**	
Real-time Enhanced AI-Based Facial Recognition System for Smart Classroom (2025).	**University of Southampton Malaysia.**	
Smart Campus Navigation and Resource Management System (2025).	**University of Southampton Malaysia.**	

Madni, Syed Hamid Hussain

Industrial Internet of Things (IIoT) Adoption Model for Manufacturing and Production SMEs in Malaysia (2024).	**Universiti Teknologi Malaysia.**
Analysis of Optimizers with Convolutional Neural Network for Facial Expression Recognition (2023).	**Universiti Teknologi Malaysia.**
Enhancing the Security of Smart Home System Using IOTA (2023).	**Universiti Teknologi Malaysia.**
Hair Salon Management System with Internet of Things Smart Chair (2023).	**Universiti Teknologi Malaysia.**
Instant Eats"- An Utm Based Food Ordering Mobile Application System (2023).	**Universiti Teknologi Malaysia.**
UTM Digi-Mart (2023).	**Universiti Teknologi Malaysia.**
IoT Based Smart Energy Monitoring System for Tracking Electric Bills (2022).	**Universiti Teknologi Malaysia.**
Secure Software Patch Management Mechanism for IoT Devices Using Interplanetary File System and Ethereum Blockchain (2022).	**Universiti Teknologi Malaysia.**
Securing Integrity of Big Data in Cloud Computing using Algebraic Signatures (2022).	**Universiti Teknologi Malaysia.**

INDUSTRIAL INTERNSHIP SUPERVISOR:

Industrial Project's Name	Organizations
Property Management System Development (2023).	**Solutya Pvt. Ltd. Bangladesh.**
Inventory Management System (2023).	**Code Astrology, Bangladesh.**
Full-Stack Web Developer: Multi-Platform Solutions Portfolio (2023).	**BIR IT, Bangladesh.**
SEEKA: Global Education Platform Developer - Yellow Pages Team (2022).	**Fresh Futures Australia, Australia (Melbourne).**
Frontend Development Lead: Catch Bangladesh Web Applications (2022).	**CATCH BANGLADESH, Bangladesh.**
Cross Platform System Development And User Interface Design (2022).	**Robust Research and Development, Bangladesh.**
Flutter Developer: Sure Care Multi-App Suite (2022).	**Robust Research and Development, Bangladesh.**

TEACHING EXPERIENCE:

Level	Subjects Taught
Diploma	• Computer Security • E-Commerce • Programming Technique C

	• Web Designing
Foundation	• Computer Applications and Systems • Fundamentals of Computing • Programming and Coursework
Undergraduate	• Artificial Intelligence • Computer Security • Distributed Systems and Networks • Intelligent Systems • Introduction to Cryptography • Network Communications • Network and Security • Operating Systems • Principles of Cyber Security • Probability and Statistics • Programming Technique C • Statistics for Data Science • Theory of Computer Science • Extra-Curricular Experiential Learning • Value and Identity • Web and Cloud-Based Security
Postgraduate	• Computer Security • Cloud Computing Security • Cryptography Engineering

ACADEMIC ADMINISTRATIVE EXPERIENCE:

Role	Experience
Head	• Task Force: Research Visibility Series in the School of Computing, UTM. • Task Force: Research Publication in the School of Computing, UTM.
Member	• Education Innovation and Quality Assurance, ECS, University of Southampton Malaysia (UoSM). • Academic Council, Department of Computer Science, Karakoram International University (KIU). • Task Force: Research Visibility Series in the School of Computing, UTM. • Task Force: Research Publication in the School of Computing, UTM.
Program Leader	• Master of Science (Data Science) Programme - ECS, University of Southampton Malaysia (UoSM).
Subject Coordinator / Module Leader	• Network Communication - Qaiwan International University, Kurdistan, Iraq, UTM. • Computer Security - Qaiwan International University, Kurdistan, Iraq, UTM. • Artificial Intelligence - University of Southampton Malaysia UoSM. • Distributed Systems and Networks - University of Southampton Malaysia (UoSM). • Intelligent Systems - University of Southampton Malaysia (UoSM). • Principles of Cyber Security - University of Southampton Malaysia (UoSM). • Theory of Computer Science - University of Southampton Malaysia (UoSM).

	• Web and Cloud based Security - University of Southampton Malaysia (UoSM).
External Examiner (PhD)	• An Intelligent Air Quality Monitoring and Early Warning System for Asthma Patients using IoT (2023) - The Islamia University of Bahawalpur, Pakistan. • Improved Topic Modeling using Document Pivot Approach Against Time Constraints (2023) - The Islamia University of Bahawalpur, Pakistan. • Efficient Fault Tolerant Scheduling Framework in Cloud Computing (2021) - Banasthali Vidyapith, India. • Actionable Knowledge Discovery Using Domain Knowledge (2021) - Government College University Faisalabad, Pakistan. • Assessment and Summarization of Social Media Data Using Descriptive Analysis (2021) - Government College University Faisalabad, Pakistan.

TRAININGS:

Role	Topic	Event	Organization
Keynote Speaker	**AI and Data Governance for Consumer Protection**	NCC Professorial Chair Endowment Host Workshop	**Federal University of Technology, Minna (FUTMINNA). Nigeria**
	Embracing Soft Skills for Better Living	International Seminar	**SoftSkills Academy, Indonesia.**
	Hands-on Thesis Writing Workshop for Successful VIVS or Proposal Defence	Collaborative Workshop	**International Students Society - Pakistan (ISS-Pak) Universiti Teknologi Malaysia.**
	How to Become a Good Paper Reviewer	Research Publication Series	**Faculty of Computing, Universiti Teknologi Malaysia.**
	Secret Tips and Tricks for Increasing Your Citations	Collaborative Workshop	**Telkom University, Indonesia.**
	How to Become a Productive Writer, Researcher or Scholar?	Research Publication Series	**Faculty of Computing, Universiti Teknologi Malaysia.**
	A Beginner's Guide to Start the Research	Collaborative Workshop	**Mehran University of Engineering and Technology SZAB campus Khairpur Mir's, Pakistan.**
	A Beginner's Guide to Start the Research	Research Visibility Series	**Faculty of Computing, Universiti Teknologi Malaysia.**
	Secret Tips and Tricks for Increasing Your Citations	Collaborative Workshop	**Fatima Jinnah Women University, Pakistan.**
	Secret Tips and Tricks for Increasing Your Citations	Research Visibility Series	**School of Computing, Faculty of Engineering, Universiti Teknologi Malaysia.**
	Hands-on How to Discuss Your Findings for Publication in Top Quality Ranked Journals	Research Publication Series	**School of Computing, Faculty of Engineering, Universiti Teknologi Malaysia.**

Madni, Syed Hamid Hussain

	How to Become a Productive Writer, Researcher or Scholar?	Collaborative Workshop	University of Baghdad, Iraq and Universiti Teknologi Malaysia.

PROFESSIONAL ACADEMIC TRAINING/WORKSHOP:

Name	Training	Organization
Workshop	**Workshops on Managing Academic Quality (MQA) Assurance from the Perspectives of the Malaysian Qualifications Agency: Introductory Level**	**University of Southampton Malaysia.**
Workshop	**Managing Academic Quality (MQA) Workshop on Outcome-Based Education (OBE)**	**University of Southampton Malaysia.**
Workshop	**Workshop on Outcome-Based Education (OBE) Assessment Development**	**University of Southampton Malaysia.**
Workshop	**Understanding Malaysian Qualifications Framework 2nd Edition, Standards, Programme Standards, and Guidelines to Good Practices**	**University of Southampton Malaysia.**
Training	PREP Program: 1. **Introduction to Teaching and Learning** 2. **Constructive Alignment and Active Learning** 3. **Assessment Design and Aligning Assessment** 4. **Marking and Feedback**	**University of Southampton, England.** **&** **University of Southampton Malaysia.**

CERTIFICATIONS:

Name	Certificate	Organization
Training	**In-house Training: Personal Data Protection Act 2010 (PDPA)**	**University of Southampton Malaysia.**
Seminar	**10th Postgraduate Annual Research Seminar (PARS) 2014**	**Faculty of Computing, Universiti Teknologi Malaysia.**
Seminar	**11th Postgraduate Annual Research Seminar (PARS) 2015**	**Faculty of Computing, Universiti Teknologi Malaysia.**
Seminar	**12th Postgraduate Annual Research Seminar (PARS) 2016**	**Faculty of Computing, Universiti Teknologi Malaysia.**
Training	One-week training course on "**Management & Leadership**"	**AHK National Center for Rural Development & MA Islamabad.**
Training	One-week training course on "**LTE Essentials (4th Generation Wireless Communication)**"	**Higher Education Commission, Pakistan & University of Tennessee at Chattanooga, USA.**
Training	Two-day training on "**Introductory Course to covering IPv6**"	**Faculty of Computing, Universiti Teknologi Malaysia.**
Workshop	Two-Day Workshop on "International Student Society Management"	**International Student Center, Universiti Teknologi Malaysia.**
Workshop	Four-Day Workshop on "**Daily Malay Language**"	**Academic Dept. UTM ISC, Universiti Teknologi Malaysia.**
Workshop	One Day Workshop on "**LaTeX**"	**Academic Dept. UTM ISC, Universiti Teknologi Malaysia.**
Workshop	One Day Workshop on "**Graduate on Time (GOT)**"	**UTM-PGSS, SPS, Universiti Teknologi Malaysia.**

Madni, Syed Hamid Hussain

Workshop	One Day Workshop on "**How to Publish?**"	**UTM-PGSS, SPS, Universiti Teknologi Malaysia.**
Workshop	One Day Workshop on "**Proposal Defense and Viva Voce**"	**UTM-PGSS, SPS, Universiti Teknologi Malaysia.**
Workshop	One Day Workshop on "**Turn-it-in**"	**UTM-PGSS, SPS, Universiti Teknologi Malaysia.**
Workshop	One Day Workshop on "**Managing and Referencing Literature using Docear**"	**UTM-PGSS, SPS, Universiti Teknologi Malaysia.**
Workshop	Two-Day Workshop on "**Practical Approach Towards Cloud Computing**"	**Faculty of Computing, Universiti Teknologi Malaysia.**
Workshop	Two-Day Workshop on "**Internet Protocol Version 6 (IPv6)**"	**Faculty of Computing, Universiti Teknologi Malaysia.**
Workshop	One Day Workshop on "**Techcycle and Tech4all**"	**AIESEC, Universiti Teknologi Malaysia.**

SKILLS:

Type	Competence
Research	• **Research & Scholarly Expertise:** Research design and methodology, systematic literature reviews, high-impact journal publications, grant writing and project management, PhD/MSc supervision, and translation of research into applied solutions. • **Research Management & Service Skills:** Principal investigator and co-investigator roles, editorial board membership, peer review for leading journals, keynote speaking, conference leadership, and research visibility development.
Technical	• **AI & Data Analysis:** Data preprocessing, exploratory and statistical data analysis, feature engineering, machine learning and deep learning, multi-omics and healthcare data analysis, model evaluation, benchmarking, and research-grade data visualization. • **Cybersecurity & Networks:** Network and cloud security, intrusion and anomaly detection, security data and traffic analysis, cryptography fundamentals, wireless sensor networks, and applied cybersecurity models for web and mobile systems. • **Internet of Things (IoT & IIoT):** IoT/IIoT system analysis, smart healthcare and smart campus applications, IoT adoption and readiness models, edge–cloud integration, and security and reliability assessment. • **Algorithms & Optimization:** Algorithm analysis and design, meta-heuristic and evolutionary optimization, Cuckoo Search and hybrid algorithms, multi-objective optimization, performance modeling, and simulation-based evaluation.
IT Expertise	MS Office (Word, Excel, PowerPoint, Outlook, etc), MS Visio, C++, Java, HTML, Python, Google Collab, SmartPLS, SPSS. CloudSIM, Canva, Packet Tracer, Google Cloud Platform, Figma, Tableau, Power Bi, LaTex, Packet Tracer, etc.
Teaching & Academic Leadership	Undergraduate and postgraduate teaching, curriculum and assessment design (OBE), module leadership, academic quality assurance, and mentoring of students and early-career researchers.
Professional & Interpersonal	Academic writing, effective communication and presentation, leadership in multicultural environments, collaboration across disciplines, and organization of academic events and workshops.
Interest	Research, Modeling, Designing, Styling, Dancing and Cooking.
Languages	English, Urdu, Hindi and Punjabi.

REFERENCES:

Name	Position / Organization	Contact
Ts. Dr. Wan Mohd Nasir bin Wan Kadir	*Professor / Dean, Faculty of Computing, Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Johor, Malaysia*	wnasir@utm.my +60197712410
Dr. Siow Yong Low	*Associate Professor / Head of the Electronics and Computer Science, University of Southampton Malaysia, 81310, Johor Bahru, Johor, Malaysia*	SY.Low@soton.ac.uk +60128708345
Dr. Siti Zaiton Mohd Hashim	*Professor / Deputy Dean (Research, Innovation & Development), Faculty of Computing, Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Johor, Malaysia*	sitizaiton@utm.my +60197726248
Dr. Muhammad Faheem	*Associate Professor / Senior Scientist, VTT Technical Research Centre of Finland, Finland*	muhammad.faheem@vtt.fi +358505721872

Madni, Syed Hamid Hussain